REMEDIAL INVESTIGATION REPORT

700 Outparcel

701 and 709 East Water Street
Syracuse, New York

NYSDEC Brownfield Site No. C734111

October 14, 2013

Prepared For:

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1.0 INTRODUCTION

1.1 Site Location and Description

The Property, currently owned by 700 Out Parcel, LLC, consists of two parcels of land totaling 0.43 acres located at the northeast corner of East Water and Almond Streets in the City of Syracuse, New York (see Figures 1 and 2). The parcels, which have addresses of 701 and 709 East Water Street, are identified by Tax Map Identification numbers 030.-14-01.0 (Parcel No. 1) and 030.-14-02.0 (Parcel No. 2), respectively. The site is bordered to the north by Erie Boulevard East, to the east by a commercial facility, to the south by East Water Street, and to the west by Almond Street.

The Property is currently flat with asphalt pavement covering approximately two-thirds of the surface.

1.2 Remedial Investigation Objectives

The primary objective of the Remedial Investigation is to further characterize the extent of impacted soil and groundwater in specific areas both on and off the Property. Previous assessments and investigations conducted by Beardsley Design Associates (BDA) serve as the basis for conducting the Remedial Investigation activities as described in the following sections. The purpose of the Remedial Investigation activities is to further delineate the limits of impacted soil and groundwater that were identified during previous environmental investigations, and to assess the potential for off-site migration of contaminants from the Property.

The secondary objective of the Remedial Investigation is to obtain all necessary data to complete a Remedial Alternatives Analysis. The data obtained throughout the Remedial Investigations will be used to identify and screen remedial technologies such that a range of remedial alternatives that protect human health and the environment can be developed.

1.3 Site Background and History

As part of a December 1997 Phase I Environmental Site Assessment (ESA) of the property, C&H Engineers, P.C. reviewed historic records related to the Property and surrounding area in order to develop an understanding of previous site use and ownership. Detailed information regarding the property history was included within the Phase I ESA Report. The tables provided below reveal the approximate tenure of past occupants at the site, based on information reported in the 1997 Phase I ESA:

HISTORICAL OWNERSHIP

Owner/Lessee	From	To
The Market Manufacturing Co.	Unknown	12/30/1948
Robert, Herbert & Zetta Market	12/30/1948	11/29/1962
Shell Oil Company, Inc. (Lessee)[1]	6/1/1949	5/31/1964
Marine Midland Trust Company (currently HSBC Bank USA, N.A.)	11/29/1962	2/9/1968
701 East Washington Realty Corp.	2/9/1968	2/10/1968
NYS Teachers' Retirement System	2/10/1968	12/31/1975
Alpha Collateral, Ltd.	12/31/1975	2/9/1979
NYS Teachers' Retirement System	2/09/1975	6/17/1981
Tygate Towers, Inc.	6/17/1981	4/12/1983
Charles Square, Ltd.	4/12/1983	8/4/1989
700 Outparcel Corp.	8/4/1989	12/1997
Swanson Fayette Associates, LLC[2]	12/1997	4/2007
700 Out Parcel, LLC[2]	4/2007	Present

1 This entry in the Abstract of Title, describing the terms and conditions of said Lease, refers to "...gasoline filling and automobile service station equipment and apparatus..." including "4-1,000 gallon, 1-4,200 gallon, and 2-550 gallon underground storage tanks" on the property.

HISTORICAL OCCUPANTS		
Occupant	**From**	**To**
Kenneth Murdock Gasoline Service Station	1940	1942
Warren Everson Gasoline Service Station	1943	1944
Chas. Jones Gasoline Service Station	1945	1945
Anton Zarachowicz Gasoline Service Station	1946	1946
Anton Zarachowicz Gasoline Service Station and Daniel Morris Used Cars	1947	1947
Anton Zarachowicz Gasoline Service Station and Fix Fred Used Cars	1948	1949
Anton Zarachowicz Gasoline Service Station and Reynolds Motors, Inc.	1950	1952
A.F. Zarach & Sons Gasoline Service Station and Reynolds Motors, Inc.	1953	1960
George's Shell Gas Station	1961	1961
George C. Macks, Inc. Gasoline Service Station and B&S Used Cars	1962	1963
Ed and Bob's Shell Gasoline Service Station	1964	1964
Shell Oil Company, Inc. (Lessee)	6/1/1949	5/31/1964
Vacant	1964	2007

1.4 Property Environmental History

The Property is known to have petroleum impacts, which were released to the subsurface from leaky underground storage tanks (USTs) and associated distribution lines of a former gasoline service station that operated at the site during the period 1949-1964. Upon discovery of petroleum-impacted soil, the New York State Department of Environmental Conservation (NYSDEC) Spill Hotline was called, and spill ID numbers 01-11549 and 06-10014 were assigned to the site.

1.4.1 Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment of the Property was prepared for the City of Syracuse Industrial Development Agency by C&H Engineers, P.C. in December 1997. The ESA was prepared in accordance with ASTM Standard E1527-97, *Standard Practice for Environmental Site Assessments*. Based on the results of the Phase I ESA, C&H Engineers cited the following conclusions:

1. During the site reconnaissance, C & H Engineers observed two (2) holes in the asphalt surface at the Property which appeared to be UST fill ports.
2. The Abstract of Title and the Sanborn Fire Insurance Maps identified four (4) 1,000-gallons and one (1) 550-gallon UST at the site.
3. Historical records also indicated that the Property was a gasoline filling station from 1949 to 1964, which may have exposed the site to activities of environmental concern in addition to the presence of the USTs.

1.4.2 Limited Phase II Environmental Site Assessment

A Limited Phase II Environmental Site Assessment was conducted at the Property in May 2002. The following conclusions were noted during the Phase II Environmental Site Assessment:

1. Four 2,000-gallon (approximate) USTs were encountered during the advancement of test pit TP-3. The backfill material surrounding the USTs, consisting of pea stone gravel, was determined to be significantly impacted. The backfill material was contained within an approximate 40-foot by 20-foot area. The surrounding native silt soils did not appear to be significantly impacted. Based on the information provided to the NYSDEC Spill Hotline, a spill file number (01-11549) was assigned to the Property.

   Conclusion: Although some contamination of the adjacent native silt/glacial till material was expected, these types of soils exhibit minimal permeability, and as such, only limited contaminant migration beyond the backfill materials was anticipated. Since groundwater was not encountered during the exploratory excavations, however, the vertical extent of gasoline contaminated soils was unknown. It is also possible that some contaminant migration to the adjacent utility trench (gas main) backfill materials extending along the eastern side of Almond Street (western property boundary) may have occurred. It is estimated that 400 to 500 cubic yards of contaminated backfill material and native soils existed in the vicinity of the gasoline USTs.

2. An approximate 550-gallon UST was encountered during the advancement of test pit TP-1. The UST, which had apparently been utilized for the storage of oil product, was found to be holding water. No staining, odors, or sheens were observed on the soils in the vicinity of the 550-gallon UST. Although parameter-specific concentrations of one VOC (acetone) and two SVOCs (fluoranthene and pyrene) were detected within the subsurface soil sample collected from the bottom of test pit TP-1, the concentrations did not exceed relative TAGM 4046 recommended soil cleanup objectives.

   Conclusion: Potentially petroleum-impacted soils in the vicinity of the 550-gallon UST appeared to be limited to approximately 50 cubic yards.

1.4.3 UST Closure and Supplemental Subsurface Investigation

In November/December 2006 and March 2007, BDA performed a UST closure, soil remedial excavation activities, and supplemental subsurface investigation at the Property (see Figures 3 and 4). The site activities were performed in accordance with NYSDEC guidelines regarding UST removals and in general accordance with ASTM Standard E1903-97. The following conclusions were drawn from this investigation:

Site Subsurface Geology

Subsurface soil units underlying the Property were interpreted as:

1. The basal soil unit (GC) that occurs at approximately 14.5-16 feet below grade surface (bgs) is interpreted as a highly compact, clay-rich gravelly lodgment till with a predicted very low hydraulic conductivity.
2. The middle soil units (lower ML, GP, upper ML, and Peat/ML) that occur at approximately 4-14 feet bgs are collectively interpreted as a glacio-lacustrine sequence of fine-grained lake deposits. The lower ML/GP subsequence is a coarsening-upward package possibly representing a small lake delta. This interpretation is consistent with the description of Pleistocene glacio-lacustrine deposits published on the Surficial Geologic Map of New York State (Cadwell and Pair 1991). Corresponding hydraulic conductivities of the peat and ML subunits are predicted to be low. However, the hydraulic conductivity of the GP subunit is predicted to be high and potentially capable of allowing subsurface petroleum impacts in soil and groundwater to migrate.

Gasoline UST Excavations

1. On December 4 and December 12, 2006, seven USTs were decommissioned and removed from the site. These USTs included:

    - Four 1,000-gallon gasoline USTs
    - Two 550-gallon USTs (one fuel oil and one waste oil)
    - One 4,200-gallon gasoline UST

2. Upon discovery of petroleum-impacted soil, the NYSDEC Spill Hotline was called by Seabird personnel on December 4, 2006 and spill ID #06-10014 was assigned to the Property.
3. Upon completion of post-excavation soil sampling and laboratory analysis, residual gasoline-impacted soil above NYSDEC guidance values persists along the north, east, and south sidewalls of the north excavation pit of the gasoline UST field.
4. The highest headspace concentrations of total volatile organic compounds (VOCs) in soil appear to be confined to the sand and gravel unit (GP) at approximately 10-12 feet bgs, with the exception of the footprints of petroleum releases in the upper silt and fine sand unit (ML) emanating from the gasoline USTs and associated distribution line piping. A total of approximately 1,810 tons of gasoline-impacted soil was excavated and stockpiled from these areas pending transport and disposal to a sanitary landfill. Mr. Richard Brazell of NYSDEC Region 7 granted 700 Out Parcel, LLC an extension for disposal of the stockpiled soil pending further investigation and remedial actions at the Property. Concentrations of residual gasoline-impacted soil remain on site, especially beneath the former distribution line piping along the eastern sidewall of the north excavation pit of the gasoline UST field.
5. Gasoline impacted soil extends to and potentially beyond the north property boundary.
6. Upon completion of post-excavation soil sampling and laboratory analysis within the south excavation pit of the gasoline UST field, no VOCs or semi-volatile organic compounds (SVOCs) were detected above NYSDEC guidance values.

Fuel Oil UST Pit

1. Upon completion of post-excavation soil sampling and laboratory analysis, no concentrations of VOCs and SVOCs were detected above the laboratory detection limit or NYSDEC guidance values in the subsurface soil samples.

Waste Oil UST Pit

1. Upon completion of post-excavation soil sampling and laboratory analysis, concentrations of VOCs were detected in the sidewall composite and excavation bottom samples, but were well below the NYSDEC guidance values, with the exception of total xylenes detected in the sidewall composite sample above the NYSDEC guidance value.
2. Concentrations of SVOCs were detected in the sidewall composite sample, but were well below the NYSDEC guidance values. No concentrations of SVOCs were detected above the laboratory detection limit in the remaining subsurface soil samples.

Limited Subsurface Investigation

1. Photo-ionization detector (PID) measurements of soils excavated from 13 test pits advanced in the central and western portions of the site indicate that residual gasoline-impacted soil extends to and potentially beyond the northern property boundary. Gasoline-impacted soil extends to within 35 feet of the eastern property boundary and to the fence line at the southern and western property boundaries. Soil analytical results of samples collected from the south and west sidewalls within the former UST excavation indicate that contamination has not likely migrated off-site. However, based on test pit soil screening results, it is inconclusive whether or not petroleum subsurface impacts have migrated off-site to the south from on-site areas to the east of the former UST excavation.
2. An extensive area of elevated VOC concentrations in TP-1 (maximum of 1,439 ppm at 11 feet bgs), TP-2 (maximum of 1,732 ppm at 12.7 feet bgs), and TP-4 (maximum of 1,970 ppm at 12.5 feet bgs) located at the eastern portion of Parcel No. 1 suggests a source of petroleum contamination from former pump islands and distribution lines in this area.
3. An anomaly of elevated VOC concentrations in TP-11 located at the north-central portion of Parcel No. 2 (maximum of 2,000+ ppm at 10 feet bgs) suggests that there may be a secondary source of petroleum contamination in this area.
4. A section of concrete uncovered in the vicinity of TP-3 is believed to be a remnant of a former pump island, which suggests that former distribution line piping may have released petroleum to the subsurface from this area as well.
5. A section of former brick foundation and concrete footers uncovered in the vicinity of TP-11 and TP-12 is a potential remnant of a former automobile dealership and service center building, which is known to have existed concurrently on Parcel No. 2 during operations of the gasoline service station on Parcel No. 1.
6. A rectangular wooden subsurface structure with a wooden plank floor and localized visual evidence of congealed used motor oil beneath the wooden planks was uncovered in TP-13, which is believed to be a former automobile service pit for changing motor oil in vehicles. Although congealed used motor oil was observed, no headspace concentrations of total VOCs were detected in soil samples collected from this horizon, which may be indicative of degradation of SVOC constituents over an extended period of time.

7. The extent of the VOC plume does not appear to have impacted the southeastern portion of Parcel No. 2 in the vicinity of TP-7, TP-8, TP-10, and TP-13. However, since the soils were merely screened for volatile vapors, SVOC and metals contaminants may exist within this area.

1.4.4 Interim Remedial Measure

Approximately 1,800 tons of contaminated soil was staged on-site during the removal of the former USTs (see Section 1.3.3). On May 14-16, 2008, these soils were removed from the site and disposed at a regulated landfill as an interim remedial measure.

1.5 Area Characteristics

1.5.1 Geography

The Property is located in an urbanized area on the near northeast side of downtown Syracuse (see Figure 1). The site is positioned immediately adjacent to the overpass interchange of Interstate Highways I-81 and I-690. At street level beneath the highways, the Property is located at the intersection of East Water Street and Almond Street. Onondaga Creek is the nearest water body located approximately 0.5 miles to the west.

1.5.2 Topography

A United States Geologic Survey (USGS) map of the area (Syracuse East, NY, Photo revised 1978) indicates that the site is at an elevation of approximately 405 feet. The topography of the landscape is generally flat with a gentle slope toward the west-southwest (see Figure 1).

1.5.3 Geology

Regional and Local Geology

The site is located near the border of two physiographic provinces within New York State known as the Erie-Ontario Plain to the north and the Allegheny Plateau to the south. The Erie-Ontario Plain slopes toward the north and represents the southern extension of the Lake Ontario drainage basin, while the northern margin of the Allegheny Plateau includes the Finger Lakes troughs. The geology of the area in which the site is located consists of bedrock and overburden deposits. Bedrock in Central New York is dominated by flat-lying Sulurian-age and Devonian-age sedimentary strata, which exhibit a regional southward dip of approximately 20 feet to 30 feet per mile.

The Onondaga Lake Valley is underlain by a soft shale known as the Vernon Formation. The Vernon Formation is overlain by the Syracuse and Camillus Formations. The Syracuse Formation consists of shales, dolostones, gypsum, and rock salt. The Camillus Formation consists of soft, dolomitic shales and thin, gypsiferous shales. Bedrock at the site consists of the Syracuse Formation.

The pre-glacial bedrock beneath the site was modified by overriding Pleistocene glaciers.

Deepening of the Onondaga Valley by glacial ice, in a manner similar to that which formed the Finger Lakes and surrounding valleys, produced a bedrock basin extending below sea level. Glacial sculpting of the area has produced a pronounced north-northwest to south-southeast orientation of hills and valleys. This orientation is partly the result of erosion of the underlying bedrock by glacial ice and the deposition of glacial till into elliptical hills known as drumlins.

Till is typically a compact, unsorted, and poorly stratified mixture of sands, silt, clay, gravel, and boulders deposited by glacial ice. A layer of till generally 10 to 15 feet thick overlies bedrock in this area. During glacial retreat in the Onondaga Valley, pre-glacial drainage to the north was blocked by an ice front producing a proglacial lake in which significant quantities of glaciolacustrine sediments were deposited. Drainage in adjacent north-south valleys, to the east and west of the Onondaga Valley, were also blocked by the ice front producing a series of lakes standing against the ice.

As the level of the lakes rose, surface water flow was predominantly to the south, over relatively high spillways or to the east or west over inter-valley divides. The large volumes of melt-water from the ice, spilling from one basin to another, cut numerous east-west trending channels into the valley divides. With the decay of the ice, lower spillways opened resulting in drainage of the proglacial lakes and the establishment of the existing system of lakes and surface drainage in the area.

During the time the proglacial lakes existed, they accumulated large volumes of sediment washed out from the ice and from the channels crossing the valley divides. These sediments consist primarily of fine sand and silt. Gravel, sand, and clay, however, are also present in some locations. Surficial soil near the site, however, has been mapped as urban land, which consists of built-up areas that have been so altered or obscured by urban works and structures that specific identification of the soils is not feasible

Site Geology

During subsurface investigations conducted by BDA, native soil was classified using the Unified Soil Classification System (USCS) in general accordance with the American Society for Testing and Materials (ASTM) Standard D 2487-11. A generalized cross-section of the surficial geologic units encountered is summarized in the table below:

GENERALIZED CROSS-SECTION OF SUBSURFACE GEOLOGIC UNITS		
Depth (feet below ground surface)	**USCS Unit Designation**	**Lithologic Description of Soil**
0-4	FILL (GM/GC)	Asphalt/Macadam (0-0.5 feet) then FILL; Medium Gray-Brown SILT; Some Clay and f-c Gravel; Little vf-c Sand (Slightly moist; Brick, concrete, and glass fragments present)
4-6.0	PT/ML FILL	PEAT with Dark Gray to Black SILT; Little vf-f Sand (Slightly moist; Abundant wood, reeds, and organic matter) Brick, concrete, and glass fragments present
6.0-10	ML	Light Gray-Brown SILT and vf-f SAND with thin alternating lenses of pure vf-m sand, silt, and clay (Moist; Laminations

GENERALIZED CROSS-SECTION OF SUBSURFACE GEOLOGIC UNITS		
Depth (feet below ground surface)	**USCS Unit Designation**	**Lithologic Description of Soil**
		and bedding present; Abundant root casts and decayed root matter; Localized clay intervals exhibit moderate plasticity)
10-13	GP	Light Greenish Brown m-c SAND and f GRAVEL; Trace vf-f Sand (Very moist; Wet at approximately 10.5-11 feet; subangular to subrounded clasts)
13-14.5	ML	Light Brown vf-f SAND; Some Silt and Clay (Wet; Sand, silt, and clay occurs in alternating thin beds and lenses)
14.5-18	GM	Reddish Brown f-m GRAVEL and SILT; Little clay and vf-c Sand (Slightly moist to dry; Very stiff and compact; Difficult digging with excavator)

The subsurface soil units are interpreted as:

- The basal soil unit (GC) that occurs at approximately 14.5-16 feet bgs is interpreted as a highly compact, clay-rich gravelly lodgment till with a predicted very low hydraulic conductivity.
- The middle soil units (lower ML, GP, upper ML, and Peat/ML) that occur at approximately 4-14 feet bgs are collectively interpreted as a glacio-lacustrine sequence of fine-grained lake deposits. The lower ML/GP subsequence is a coarsening-upward package possibly representing of a small lake delta. This interpretation is consistent with the description of Pleistocene glacio-lacustrine deposits published on the Surficial Geologic Map of New York State (Cadwell and Pair 1991). Corresponding hydraulic conductivities of the peat and ML subunits are predicted to be low. However, the hydraulic conductivity of the GP subunit is predicted to be high and potentially capable of allowing subsurface petroleum impacts in soil and groundwater to migrate.

1.5.4 Hydrology

Regional and Local Hydrology

The site is situated within the 230-square-mile Onondaga Lake drainage basin and within the larger Eastern Oswego River drainage basin, which covers approximately 2,500 square miles. Surface water drains north from the Onondaga Lake drainage basin into the Seneca River, into the Oswego River, and finally into Lake Ontario. Surface water in the area of the site is influenced by Onondaga Lake and its tributaries. The tributary nearest to the site is Onondaga Creek, which is located approximately 0.8 miles west of the site (see Figure 1).

Onondaga Creek, which flows from south to north through the Onondaga Valley and the City of Syracuse into Onondaga Lake, drains a watershed of approximately 100 square miles and has an average annual flow rate of approximately 190 cubic feet per second, before it discharges into the south end of Onondaga Lake. Onondaga Creek has been relocated from its former discharge point, which was once located at the southeast corner of Onondaga Lake.

The geology of the Onondaga Valley has a significant impact on the movement of groundwater in the valley and its tributaries. The pre-development groundwater flow patterns and water quality have been changed by construction projects, waste disposal, and groundwater pumping. Groundwater flow in Onondaga Valley and its tributaries is primarily driven by topography. Water flows from the valley divides into the surface and groundwater systems within each tributary valley. Surface and groundwater then flow towards Onondaga Lake. The flow patterns, velocities, and the groundwater/surface water ratio in each tributary valley are dependent on the local geologic conditions within each valley.

Site Hydrology and Groundwater Vulnerability

According to NYSDEC, groundwater beneath the site is classified as class GA groundwater. The site does not appear to directly overlie any aquifers and does not appear to be located near any primary or principal water supply aquifers as classified by NYSDEC. A surficial (unconfined) aquifer is located approximately six miles south of the site.

The approximate depth to groundwater, as measured during field activities, ranges from 7-14 feet. An interpretation of the topographic expression shown on the 1978 USGS 7.5-minute topographic map (Syracuse West Quadrangle) suggests that predicted groundwater flow beneath the Property is to the west-southwest. However, based on the findings of the remedial investigation the local groundwater has more of a south-easterly component than the topographic map would suggest (see Figure 5 and 6). In addition, local construction projects, subsurface utilities and, especially the former Erie Canal, are likely to have impacted site groundwater flow.

Groundwater vulnerability from contamination sources is defined as the tendency or likelihood for contaminants to reach a specified position in the groundwater system after introduction at some location above the uppermost aquifer. Since the City of Syracuse supplies public potable water throughout the entire city, properties in the vicinity of the Property are not used for the extraction of potable groundwater. Furthermore, there are no wellhead protection areas, groundwater recharge areas, residential wells, or commercial wells within a one-mile radius of the site. Therefore, the potential vulnerability of groundwater from hazardous substances or petroleum products dissolved in groundwater that emanate from the site is considered to be low. It is also important to note that it appears unlikely that the groundwater system in the vicinity of the Property will be used in the future as a potable groundwater supply.

2.0 REMEDIAL INVESTIGATION ACTIVITIES AND METHODOLOGIES

The Remedial Investigation was conducted in accordance with the September 2008 Remedial Investigation Work Plan which was approved by the NYSDEC. The primary tasks of the Remedial Investigation involved site characterization, which included activities to determine the nature and extent of contamination emanating from the Property. For this project, site characterization included:

1. The collection and assessment of existing data,
2. Subcontractor procurement,
3. Completion of field investigations,
4. Evaluation of data,

5. Qualitative human and environmental health exposure assessment, and
6. Evaluation of fate and transport of contaminants.

2.1 Field Investigations

The following field investigations were completed as part of the Remedial Investigation to determine the nature and extent of contamination at the site.

2.1.1 Preliminary Site Reconnaissance

Several preliminary site reconnaissance events were completed in an effort to identify obvious areas of environmental concern, areas of concern identified in previous investigations, general site conditions, and mapping underground utility locations. Information gathered during the preliminary site reconnaissance was used to assist in the development of on and off-site subsurface investigations.

2.1.2 On-Site Subsurface Investigations

To further characterize the extent of impacted soil and groundwater throughout the Property, and to assess the potential for off-site migration of contaminants, a series of phased subsurface investigations were completed at the site. The location of test pits, soil borings, and monitoring wells are shown on Figures 7 and 8. Test pit and boring logs are located in Attachment A. Soil and groundwater samples collected during the investigation were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semi-Volatile Organic Compounds (SVOCs), and Target Analyte List (TAL) metals (including mercury and cyanide). An additional analysis was conducted on two soil samples for polychlorinated biphenyls and on three samples for Total Petroleum Hydrocarbons. Spill Technology and Remediation Series (STARs) list parameters were also analyzed for certain samples since the laboratory indicated that petroleum related compounds were noted during the preliminary analysis. Laboratory analytical reports are provided electronically in Attachment D.

Subsurface Test Pit Investigation

On August 22-24, 2011 personnel from BDA and Lyon Drilling, Inc. (Lyon) completed a subsurface test pit investigation at the Property.

Lyon excavated seventeen test pits utilizing a rubber tired backhoe. Test pits were advanced horizontally in lengths ranging from 6'-10' and to a depth of up to 13.5' bgs except, test pit TP-1 and TP-3 where collapsing backfill prevented advancement of the test pits. Soil conditions, odors, and soil vapor screening using a PID were noted for each excavation. Areas displaying stained soil conditions, odors, or high PID readings were carefully noted for each excavation. A soil sample was then collected from each test pit and placed in laboratory prepared containers were soils exhibited gross contamination or the highest PID readings. An additional soil sample was collected and placed in a glass container and sealed with aluminum foil. The soil sample was then allowed to heat to approximately 70° F and the container's headspace was screened using a PID. Ten additional miscellaneous soil samples were collected at locations chosen by BDA. The miscellaneous samples were collected from areas which were identified as having gross contamination or elevated PID readings outside of the gravel layer (i.e. near former fuel lines) or to

verify that layers above the gravel layer were not contaminated.

After each sampling event occurred, the test pits were backfilled using excavated soils and/or clean backfill that was delivered to the Property. Excavated soils exhibiting characteristics of gross contamination (stains, odors, etc.) or PID readings above 50 parts per million (ppm) were staged on-site and covered with polyethylene sheeting for subsequent removal and disposal.

Removal of the staged soil was completed on August 30, 2012, in accordance with the NYSDEC approved Soil Pile Removal Work Plan.

On-Site Groundwater Investigation

On January 12, 13, and 17, 2012, personnel from BDA and Lyon mobilized to the site to complete two shallow groundwater monitoring well installations (MW-8 and MW-9) within the Property to assess the presence of potential shallow groundwater quality impacts at the site. Each of the subsurface monitoring well borings was completed using continuous split spoon sampling, consistent with ASTM D-1586-84, and advanced using a 4¼" inside diameter hollow stem auger without the use of air or drilling fluids. Continuous sampling was completed as a means to define the unconsolidated geology prior to boring advancement.

During the completion of shallow monitoring well borings, retrieved soil samples were field screened for the presence of volatile organic compounds using a PID. Each of the monitoring well installations was constructed of two-inch diameter PVC tri-lock jointed screen and riser, with locking caps. Consistent with the gravel, sand, and silt conditions identified at the site, each monitoring well was constructed using 10-slot (0.01-inch) well screens and "00-N" silica sandpack. Split spoons and down-hole apparatus/tools were decontaminated (triple wash rinse) between samples.

For each of the shallow wells, the screen interval was installed to "straddle" the perceived groundwater surface that was noted during the installation of the monitoring wells. A bentonite seal, at least 0.5 feet in thickness, was placed following the installation of the sand pack to minimize the potential downward communication (or short-circuiting) of infiltrating surface waters to the local shallow groundwater regime. The balance of the hole was backfilled with a cement/bentonite grout. The placement of annular material was coordinated with the withdrawal of augers or casing to minimize caving around the well screen and riser pipe. Annular material was placed in a manner to prevent bridging between riser and borehole. A vented flush-mount casing with a locking steel cap was installed to surround each PVC well location to maintain well integrity. Each of the monitoring wells was finished by installing a concrete cap. The void between each steel casing and PVC riser was filled with heavy grade sand to prevent invasion by rodents and insects.

Monitoring wells were developed and purged using an electric peristaltic pump and dedicated polyethylene tubing on January 16 and 18, 2012. During well development, turbidity readings were found to improve to values between 39.8-58.0 NTUs over the duration of well development. Further well development did not have a significant effect on turbidity.

Monitoring well installation logs completed by Lyon and sampling logs are provided in Attachment B.

Groundwater samples were collected on January 19, 2012, from each monitoring well by means of an electric peristaltic pump and dedicated polyethylene tubing.

2.1.3 Off-site Investigations

The purpose of the off-site investigation activities was to identify the approximate nature and extent of off-site migration, of contaminants from the Property. The location of soil borings and monitoring wells are shown on Figure 7 and 8. Boring logs are located in Attachment A. Soil and groundwater samples collected during the investigation were analyzed for TCL VOCs, SVOCs, and TAL metals in accordance with NYSDEC Analytical Services Protocol. Select soil samples were also chosen to be analyzed for Total Petroleum Hydrocarbons. STARs list parameters were also analyzed for certain samples since the laboratory indicated that petroleum related compounds were noted during the preliminary analysis. Laboratory analytical reports are provided electronically in Attachment D.

East Water Street Subsurface Investigation

Prior to advancement of the exploratory subsurface borings on adjoining roadways, 700 Out Parcel, LLC, submitted written request to the City of Syracuse for permission to conduct the proposed exploratory subsurface borings on streets owned by the municipality. On February 26, 27, and March 2, 2009 Lyon advanced a total of ten soil borings near the centerline of East Water Street and the sidewalk on the southern border of East Water Street. Six groundwater monitoring wells were installed within certain borings chosen by BDA. Soil borings were advanced utilizing a 4¼" hollow stem auger to a depth of 0.5-1.0 feet bgs through the asphalt roadway and gravel sub-base. Borings were then advanced using hydraulic direct push methodologies. Soil samples were collected continuously in each boring using a 2-inch diameter macro-core sampling tube to subsurface depths ranging from 14-20 feet bgs. During the completion of subsurface borings at these locations soil conditions were recorded and soil samples were collected for field headspace analysis utilizing a PID. Samples were collected from each of the borings at depths that exhibited gross contamination and/or high PID readings.

Each of the temporary monitoring well installations were constructed of one-inch diameter PVC tri-lock jointed screen and riser, with locking caps. Consistent with the gravel, sand, and silt conditions identified at the site, each monitoring well was constructed using 10-slot (0.01-inch) well screens and sandpack.

Well screen intervals were placed at the chosen elevation due to depth of groundwater observed during the installation of the monitoring wells. For each of the shallow wells, the screen was installed to "straddle" the perceived groundwater surface. The temporary monitoring wells were developed and purged using an electric peristaltic pump and dedicated polyethylene tubing after installation. During well development efforts an attempt was made to reduce turbidity readings to 50 NTUs. Due to the fine nature of the silty soils encountered at a depth of ±10 feet, improvement of turbidity readings was generally limited to values between 111-641 NTUs.

Groundwater samples were collected from each monitoring well by means of an electric peristaltic pump and dedicated polyethylene tubing following development. The temporary monitoring wells were removed after sample collection and bore holes were filled with bentonite grout. No

monitoring well construction logs were prepared for the temporary monitoring wells. The monitoring well sampling logs are provided in Attachment B.

Property Boundary Subsurface Investigation

On January 12, 13, and 17, 2012, a total of eight soil borings were advanced along the Property's boundary of Almond Street, Erie Boulevard, and the east adjoining property (U-Haul). Boring locations that were proposed on Almond Street and Erie Boulevard in the Remedial Investigation Work Plan were relocated along the property boundaries during this phase of the subsurface investigation to avoid significant delays related to obtaining permits from the City of Syracuse and New York State Department of Transportation. Four groundwater monitoring wells (MW-4 to MW-7) were installed within certain borings chosen by BDA in order to assess the presence of potential shallow groundwater quality impacts at the north, east, and west property boundaries. Each of the subsurface monitoring well borings was completed using continuous split spoon sampling, consistent with ASTM D-1586-84, and advanced using a 4¼" inside diameter hollow stem auger without the use of air or drilling fluids. Soil borings were advanced using hydraulic direct push methodologies. Continuous sampling was completed to define the unconsolidated geology prior to boring advancement.

Soil samples were field screened for the presence of VOCs using a PID. Groundwater monitoring wells were constructed in a similar manner as those installed on the Property. See Section 2.1.2 for more information.

Monitoring wells were developed and purged using an electric peristaltic pump on January 16 and 18, 2012. During well development, turbidity readings were found to improve to values between 10.2-39.1 NTUs over the duration of well development. Further well development did not have a significant effect on turbidity. Well construction details completed by Lyon and sampling records are provided in Attachment B.

2.1.4 Groundwater Flow Directions

Monitoring well locations and elevations were surveyed by BDA relative to an assumed benchmark elevation to establish the horizontal location and elevation of the measuring point, so that depth to water measurements could be utilized to calculate site specific groundwater elevations, groundwater contours, and groundwater flow directions.

East Water Street Subsurface Investigation

On March 4, 2009, depths to groundwater were measured within each of the six East Water Street temporary monitoring wells. The depth to groundwater and calculated groundwater elevations for each of the temporary monitoring wells are summarized in the following table:

SUMMARY OF GROUNDWATER DEPTH AND ELEVATION MEASUREMENTS MARCH 4, 2009				
Monitoring Well	**Screen Interval (ft - bgs)**	**Surface Elevation (ft)**	**Depth to Water (ft)**	**Groundwater Elevation (ft)**
MW-1	9.8-19.8	97.32	13.56	83.76
MW-2	4.8-14.8	97.33	11.35	85.98
MW-3	4.6-14.6	97.25	9.10	88.15
CMW-1	7.5-17.5	97.40	12.97	84.43
CMW-2	4.9-14.9	97.22	10.73	86.49
CSB/CMW-3	4.9-14.9	97.38	14.00	83.38

As shown on Figure 5, shallow groundwater flow along East Water Street was calculated to trend towards the southeast with a hydraulic gradient of approximately 2.3 percent.

On-site and Property Boundary Subsurface Investigation

On January 19, 2012, depths to groundwater were measured within each of the four property boundary and two on-site monitoring wells. The depth to groundwater and calculated groundwater elevations for each of the monitoring wells are summarized in the following table:

SUMMARY OF GROUNDWATER DEPTH AND ELEVATION MEASUREMENTS JANUARY 19, 2012				
Monitoring Well	**Screen Interval (ft - bgs)**	**Surface Elevation (ft)**	**Depth to Water from PVC Riser (ft)**	**Groundwater Elevation (ft)**
MW-4	7.53-17.53	98.95	8.86	89.66
MW-5	7.18-17.18	100.18	7.02	92.93
MW-6	7.01-17.01	100.35	7.05	92.89
MW-7	9.54-19.54	100.19	13.39	86.56
MW-8	7.32-17.32	100.08	11.11	88.75
MW-9	5.49-15.49	99.95	13.30	86.24

Shallow groundwater flow data collected in 2012 is consistent with data from 2009 and the groundwater flow direction trends towards the south and southeast with a hydraulic gradient of approximately 5.8 percent, as shown on Figure 6.

2.2 Media Not Investigated

2.2.1 Surface Soil Investigations

Collection and analysis of surface soils is not warranted at this site based upon the following reasons:

- The native surface soils within the underground storage tank removal excavation were removed and replaced with clean fill.
- A majority of the remainder of the site is currently covered with asphalt.

- The planned redevelopment of the property will likely require excavation and removal of a vast majority of surface soils.
- Deed restrictions, covers, etc. can adequately address any surface soils remaining after site development excavations.

2.2.2 Soil-Vapor

A soil vapor evaluation will not occur until a later phase of the project since any buildings constructed on the site will include a soil vapor extraction system. The soil-vapor intrusion evaluation will be performed in accordance with New York State Department of Health requirements and procedures.

3.0 DATA USABILITY REVIEW

As part of the Remedial Investigation, media samples were collected from subsurface test pit excavations, subsurface borings, and groundwater monitoring wells. The collected groundwater and subsurface soil samples were analyzed for TCL or TAL parameters, in accordance with Environmental Protection Agency approved methodologies. For the samples collected for TCL and TAL parameter analysis, the project-specific analytical laboratory, Life Science Laboratories, Inc., provided analytical data reports in the form of NYSDEC Analytical Services Protocol Category B reportables/deliverables packages.

The analytical laboratory completed a review of the generated analytical data for compliance with Quality Control acceptance limits as specified in the applicable Analytical Services Protocol method for each analysis. The following Quality Control operations and items are considered in the validation of reported results: holding times; surrogate recovery; spiked sample recovery; duplicates/spike duplicate precision; tuning criteria; internal standard variation; continuing calibration variation; reference (check) sample recovery, and instrument, method, trip, and field blanks. The appropriate frequency for each operation is also considered.

Laboratory data was evaluated according to the quality assurance/quality control requirements of the NYSDEC Analytical Services Protocol, September 1989, Rev. 07/2005, and the cited method.

In an effort to provide adequate, compliant, and defensible data, consistent with NYSDEC guidance, analytical data generated as part of the site investigations was reviewed by DataVal, Inc. The results of the internal laboratory review, validation, and usability assessment are included within each delivery group of analytical data. The project Data Usability Summary Reports are provided electronically on compact disk in Attachment C. Additional copies of the project Analytical Data Reports and Data Usability Summary Reports are available upon request.

A vast majority of the data produced during the Remedial Investigation activities is considered technically defensible and completely usable in its present form. The rejected data was limited to:

- The 4-nitrophenol, pentachlorophenol, pyrene, 2,4-dinitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i)-perylene, chrysene, flouranthene, hexachlorocyclopentadiene, indeno (1,2,3-cd)pyrene, and phenanthrene results from TP-1 (9-10) and TP-1 (9-10) FD have been rejected due to poor matrix spike recoveries.

- The methylcyclohexane result from sample SB-3 (8-12) has been rejected due to low matrix spike recoveries.

Data qualification information is included within the analytical data tables contained within Tables 1 through 14 of this report. The following sections contain a detailed summary of the qualified data results prepared by DataVal, Inc.

3.1 Sample Delivery Group K1108291 and K1108314

Soil samples collected from on-site test pits including the following and analyzed for VOCs, SVOCs, and inorganics:

- TP-2 (12-13)
- TP-4 (8-9) FD
- TP-6 (4-5)
- TP-7 (11-12)
- TP-9 (10-12)
- TP-11 (6-8)
- TP-13 (11-13)
- TP-3 (8-10)
- TP-5 (2-4)
- TP-6 (12-13)
- TP-8 (10-12)
- TP-10 (2-4)
- TP-11 (10-12)
- TP-14 (2-4)
- TP-4 (8-9)
- TP-5 (10-12)
- TP-7 (8-9)
- TP-9 (2-4)
- TP-10 (11-13.5)
- TP-12 (11-13)
- TP-14 (11-13)

VOCs

The positive acetone, methylene chloride, tert-butyl alcohol, and carbon disulfide results from this project are assumed to represent laboratory artifacts and should be considered undetected in this group of samples. Naphthalene concentrations below 8 ug/kg have been similarly qualified. It is noted that the acetone results from TP-10 (2-4) and TP-14 (2-3) have been qualified as estimations because they exceeded the range requiring qualifications.

Tetrachloroethene, tert-butyl alcohol, bromoform, trichloroethene, chloromethane, and vinyl chloride demonstrated unacceptable calibration performance. These analytes have been qualified as estimations in the associated samples.

The positive results reported from every sample except TP-3 (8-10), TP-5 (10-12), TP-10 (11-13.5) and TP-13 (11-13) have been qualified as estimations due to high surrogate standard recoveries.

The isopropylbenzene, n-propylbenzene, 1,1,2,2-tetrachloroethane, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2- dibromo-3-chloropropane, 1,2,4-trichlorobenzene and naphthalene results from TP-5 (2-4), TP-6 (4-5), TP-9 (2-4) and TP-10 (2-4); and the tetrachloroethene, dibromochloromethane, 1,2-dibromoethane, chlorobenzene, ethylbenzene, total xylenes, styrene and bromoform results from TP-10 (2-4) have been qualified as estimations due to poor internal standard performance.

The 1,2-dibromo-3-chloropropane,1,3-dichlorobenzene, n-butylbenzene, bromoform, p-isopropyltoluene, sec-butylbenzene and tertbutyl alcohol results from this sample group have

been qualified as estimations due to low matrix spike recoveries. Positive 1,1,2-trichloroethane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, cyclohexane, ethylbenzene, isopropylbenzene, methyl acetate, methylcyclohexane, trichloroethene, and total xylenes results have been similarly qualified.

The identifications of toluene in TP-2 (12-13) and TP-4 (8-9) FD; n-butylbenzene in TP-11 (10-12), TP-12 (11-13), and TP-14 (11-13); and cyclohexane in TP-14 (2-3) were not conclusive based on the mass spectra references included in the raw data. These analytes should be interpreted as undetected in the affected samples.

The tentatively identified compounds (TIC) reported from this group of samples have been edited to provide more appropriate identifications.

SVOCs

Bis(2-ethylhexyl)phthalate and an Aldol Condensation Product were found in the method blanks associated with this group of samples. When present in samples, both should be interpreted as laboratory artifacts.

Pentachlorophenol and 2,4-dinitrophenol demonstrated poor calibration performance. These analytes have been flagged as estimations in the affected samples.

The positive acenaphtyhene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, carbazole, chrysene, phenanthrene and pyrene results, and all 4,6-dinitro-2- methyl phenol and fluoranthene results from this group of samples have been qualified as estimations due to unacceptable matrix spike recoveries. 2,4-Dinitrophenol and hexachlorocyclopentadiene results have been rejected.

The identifications of dibenz(a,h)anthracene in TP-4 (8-9), TP-9 (2- 4) and TP-6 (4-5) were not conclusive based on the mass spectra references included in the raw data. Dibenz(a,h)anthracene should be considered undetected in these samples.

Several TIC identifications from this sample group were not conclusive, based on the mass spectra references included in the raw data. Where necessary, TIC reports have been edited to reflect more appropriate identifications.

Inorganics

The selenium results reported from TP-2 (12-13), TP-3 (8-10), TP-4 (8-9), TP-4 (8-9) FD, TP-5 (2-4), TP-5 (10-12), TP-6 (4-5), TP-6 (12-13), TP-7 (8-9), TP-7 (11-12), TP-8 (10-12), TP-9 (2-4), TP-10 (10-12), TP-10 (2-4), TP-10 (11-13.5), TP-11 (6-8), and TP-11 (10-12) have been qualified as estimations due to a low CRDL recovery.

The antimony, lead, and sodium results from this sample delivery group have been qualified as estimations due to poor matrix spike performance.

3.2 Sample Delivery Group K1108318

Soil samples collected from on-site test pits including the following and analyzed for VOCs, SVOCs, and inorganics:

- T-1 (6-8)
- TP-15 (11-13)
- TP-16 (11-13),
- TP-1 (9-10
- TP-16 (6-8)
- TP-17 (6-8)
- TP-1 (9-10) FD
- TP-16 (11-13)
- TP-17 (11-13)

VOCs

The positive acetone, methylene chloride, tert-butyl alcohol, and carbon disulfide results are assumed to represent laboratory artifacts and should be considered undetected in this group of samples.

Chloromethane, vinyl chloride, and trichloroethene demonstrated unacceptable calibration performance. These analytes have been qualified as estimations.

The positive results reported from TP-1 (9-10) and TP-1 (9-10) FD have been qualified as estimations due to high surrogate standard recoveries.

The methylene chloride results from this project and the n-propylbenzene concentration from TP-1 (9-10) FD have been qualified as estimations due to poor spiked sample recoveries.

The tentatively identified compounds reported from TP-1 (9-10) and TP-1 (9-10) FD have been edited to provide more appropriate identifications.

SVOCs

Bis (2-ethylhexyl) phthalate and an Adol Concentration Product were found in the method blank associated with this sample group. When present in the samples, both should be interpreted as laboratory artifacts.

Pentachlorophenol and 2,4-dinitrophenol demonstrated poor calibration performance. These analytes have been noted at estimations in the affected samples.

The 4-nitrophenol, pentachlorophenol, pyrene, 2,4-dinitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i)-perylene, chrysene, flouranthene, hexachlorocyclopentadiene, indeno (1,2,3-cd)pyrene, and phenanthrene results from TP-1 (9-10) and TP-1 (9-10) FD have been rejected due to poor matrix spike recoveries. These analytes have been qualified as estimations in the remaining samples.

The identification of dibenz (a,h) anthracene in TP-15 (11-13) and TP-1 (9-10) FD; and benzo (a) anthracene in TP-17 (11-13) were not conclusive based on mass spectra references included in the raw data. Dibenz (a,h) anthracene and benzo (a) anthracene should be considered undetected in the affected samples.

Several TIC identifications from this sample group were not conclusive, based on the mass spectra references included in the raw data. Where necessary, TIC reports have been edited to reflect more appropriate identifications.

Inorganics

The selenium results reported from this project have been qualified as estimations due to low CRDL recovery.

The antimony, barium, lead, and zinc results for this delivery group have been qualified as estimations due to poor matrix spike performance.

Calcium and sodium results have been qualified as estimations due to large differences in the results obtained from field split duplicate samples.

3.3 Sample Delivery Group K1201113 and K1201142

Subsurface soil samples collected from subsurface borings at the Property and along the property boundary including the following which were analyzed for VOCs, SVOCs, and inorganics.

- MW-4 (8-12)
- MW-6 (8-12)
- MW-9 (12-14.5)
- SB-6 (8-12)
- MW-5 (8-12)
- MW-7 (8-12)
- SB-4 (8-12)
- SB-7 (8-12)
- MW-5 (8-12) FD
- MW-8 (8-12)
- SB-5 (12-14.7)

VOCs

The tert-butyl alcohol results from MW-9 (12-14.5), MW-8 (8-12), MW-4(8-12), SB-7 (8-12), SB-6 (8-12), SB-5 (12-14.7) and SB-4 (8-12); the methyl acetate and 1,1,2,2-tetrachloroethane results from MW-8 (8-12) and SB-5 (12-14.7); and the trichloroethene results from this group of samples have been qualified as estimations due to poor calibration performance.

The positive results reported from MW-6 (8-12), MW-5 (8-12), MW5 (8-12) FD, MW-4 (8-12) and SB-4 (8-12) have been qualified as estimations due to high surrogate standard recoveries.

The 1,2,4-trimethybenzene, methylcyclohexane and tert-butyl alcohol results from this group of samples have been qualified as estimations due to unacceptable spiked sample and spiked blank recoveries.

The n-butylbenzene results from MW-6 (8-12) and SB-6 (8-12); the ethylbenzene results from MW-5 (8-12) FD and MW-8 (8-12); the xylene result from SB-4 (8-12); and the 1,2,4-trimethylbenzene, naphthalene, methylcyclohexane and p-isopropyltoluene results from MW-4 (8-12) should be interpreted as undetected. These identifications could not be confirmed using the mass spectra references included in the raw data.

The tentatively identified compounds reported from every sample except MW-7 (8-12) have been edited to provide identifications that were more appropriate.

The cyclohexane and methylcyclohexane concentrations reported from SB-4 (8-12) have been qualified as estimations because the measurements exceeded the range of calibration.

The n-butylbenzene, n-propylbenzene and naphthalene results from SB-5 (12-14.7), and the p-isopropyltoluene, sec-butylbenzene and tert-butylbenzene results from MW-8 (8-12) and SB-5 (12-14.7) have been qualified as estimations because similar artifacts were found in the associated blanks.

SVOCs

When present in samples, bis(2-ethylhexyl)phthalate and di-nbutylphthalate are assumed to represent laboratory artifacts. Both phthalates should be considered undetected in this delivery group.

An Aldol Condensation Product and 1,1,2,2-tetrachloroethane have been removed from each TIC report because similar artifacts were found in the method blank. When present, an unidentified organic acid has also been removed.

The identifications of benzo(a)anthracene in MW-9 (12-14.5) and naphthalene in MW-4 (8-12) were not conclusive based on the mass spectra references included in the raw data. Both should be considered undetected.

Several TIC identifications from this group of samples were not conclusive, based on mass spectra references included in the raw data. Where necessary, TIC reports have been edited to reflect more appropriate identifications.

Inorganics

No significant findings were noted.

Petroleum Scan

Subsurface soil samples collected from property boundary including samples MW-4 (8-12) and MW-5 (8-12).

In addition to the mineral spirits concentrations noted in both samples, MW-5 (8-12) may also contain a measurable concentration of mineral oil, or another product with a similar boiling point range.

3.4 Sample Delivery Group K1201165

Groundwater samples collected from monitoring wells at the Property and along the property boundaries including the following and analyzed for VOCs, SVOCs, and Inorganics.

- MW-4
- MW-4 FD
- MW-5
- MW-6
- MW-7
- MW-8
- MW-9

VOCs

The bromomethane, 1,1,2,2-tetrachloroethane, trichloroethene, and tert-butyl alcohol results from this sample delivery group have been qualified as estimations due to poor calibration performance.

The 2-butanone concentration from MW-7 has been qualified as an estimation based on a high surrogate standard recovery.

The methylcyclohexane concentrations from MW-8, MW-5, and MW-9, and the 2-butanone concentration from MW-7 have been qualified as estimations due to high spiked sample recoveries.

The ethylbenzene results from MW-4 and MW-4FD, and the toluene result from MW-9 should be interpreted as undetected. These identifications could not be confirmed using the mass spectra references included in the raw data.

The TICs reported from every sample except MW-6 and MW-7 have been edited to provide identifications that were more appropriate.

SVOCs

When present in samples, bis(2-ethylhexyl)phthalate and butyl benzyl phthalate are assumed to represent laboratory artifacts. Both phthalates should be considered undetected in this group of samples.

When present, an Aldol Condensation Product and an unidentified acid have been removed from TIC reports because similar artifacts were found in the method blank.

The identifications of 2,4-dimethylphenol in MW-8, and 4- nitrophenol and acenapthene in MW-4 FD were not conclusive based on the mass spectra references included in the raw data. Each should be considered undetected.

Several TIC identifications from this sample group were not conclusive, based on mass spectra references included in the raw data. Where necessary, TIC reports have been edited to reflect more appropriate identifications.

Several targeted VOC analytes were reported as tentatively identified compounds in this

group of samples. When present they have been removed.

Inorganics

The aluminum, chromium, cobalt, lead, potassium, and thallium results from this project have been qualified as estimations due to poor serial dilution recoveries.

3.5 Sample Delivery Group 0903011

Soil samples collected from subsurface borings along East Water Street including the following and analyzed for VOCs, SVOCs, and inorganics:

- CMW-1 (12-16)
- CMW-2 (12-14.5)
- CSB/CMW-3 (4-8)
- CSB-4 (12-13.8)

VOCs

The positive carbon disulfide result from CSB/CMW-3 (4-8) is assumed to represent a laboratory artifact and should be considered undetected.

The trichloroethene results from this sample group have been qualified as estimations due to poor calibration performance.

The positive analyte results reported from CSB/CMW-3 (4-8) have been qualified as estimations due to high surrogate recoveries.

The tentatively identified compounds reported from this group of samples have been edited, where necessary, to provide more appropriate identifications.

SVOCs

An Aldol Condensation Product was found in the method blank associated with this project. When present in samples, this analyte should be interpreted as a laboratory artifact.

The bis(2-ethylhexyl)phthalate concentration reported from CSB/CMW-3 (4-8) is assumed to represent a laboratory artifact. This phthalate should be considered undetected in the affected sample.

Several TIC identifications from CSB/CMW-3 (4-8) were not conclusive, based on the mass spectra references included in the raw data. Where necessary, the TIC report has been edited to reflect more appropriate identifications.

Inorganics

No significant findings were noted.

Petroleum Scan

Subsurface soil sample collected along East Water Street at boring CMW-1 (12-16).

The #6 fuel oil result from CMW-1 (12-16) has been qualified as an estimation due to poor calibration performance.

3.6 Sample Delivery Group 0902127 and 0902135

Groundwater and soil samples collected from temporary monitoring wells and subsurface borings along East Water Street including the following and analyzed for VOCs, SVOCs, and inorganics:

- MW-1
- MW-1 (16-20)
- SB-1 (12-14)
- MW-2
- MW-2 (8-12)
- SB-2 (8-12)
- MW-3
- MW-3 (8-12)
- SB-3 (8-12)

VOCs

The positive carbon disulfide results from this project are assumed to represent laboratory artifacts and should be considered undetected in this group of samples.
The trichloroethene (TCE) results from this project have been qualified as estimations due to poor calibration performance.

The positive results from SB-1 (12-14) have been qualified as estimations due to a high surrogate standard recovery.

The methylcyclohexane result from SB-3 has been rejected due to low matrix spike recoveries.

The Tentatively Identified Compounds (TIC) reported from this group of samples have been edited, where necessary, to provide more appropriate identifications.

SVOCs

Bis(2-ethylhexyl)phthalate, di-n-butylphthalate, and an Aldol Condensation Product were found in the method blanks associated with this project. When present in samples, these analytes should be interpreted as laboratory artifacts.

Hexachlorocyclopentadiene and 2,4-dinitrophenol demonstrated poor calibration performance. These analytes have been flagged as estimations in MW-2 and MW-3.

The 3,3'-dichlorobenzidine results from MW-2 and MW-3 have been qualified as estimations due to a poor spiked blank recovery.

The identifications of benzo[a]anthracene in SB-1 (12-14) and nitrobenzene in MW-2 were not conclusive based on the mass spectra references included in the raw data. Benzo[a]anthracene and nitrobenzene should be considered undetected in these

samples.

Several TIC identifications from MW-2 were not conclusive, based on the mass spectra references included in the raw data. Where necessary, the TIC report has been edited to reflect more appropriate identifications.

Inorganics

The antimony results from this project have been qualified as estimations due to the poor matrix spike performance.

The iron results from this group of samples have been qualified as estimations due to poor serial dilution performance.

3.7 Sample Delivery Group 0903019

Groundwater samples collected from temporary monitoring wells located along East Water Street including the following and analyzed for VOCs, SVOCs, and inorganics:

- CMW-1
- CMW-1 FD
- CMW-2

VOCs

The carbon disulfide concentrations present in this group of samples are assumed to represent laboratory artifacts and should be considered undetected.

The trichloroethene results from this project have been qualified as estimations due to poor calibration performance.

The TICs reported from this group of samples have been edited, where necessary, to provide more appropriate identifications.

SVOCs

Bis(2-ethylhexyl)phthalate, di-n-butylphthalate and an TIC eluting at 8.18 minutes were found in the method blank associated with this project. When present in samples, these analytes should be interpreted as laboratory artifacts.

The identification of benzo[a]anthracene in each program sample, and bis(2-ethylhexyl)phthalate in CMW-1 were not conclusive based on the mass spectra references included in the raw data. Benzo[a]anthracene and bis(2-ethylhexyl)phthalate should be considered undetected in the affected samples.

Several TIC identifications from CMW-1 and CMW-1FD were not conclusive, based on the mass spectra references included in the raw data. Where necessary, the TIC reports have been edited to reflect more appropriate identifications.

Inorganics

The potassium results from this project have been qualified as estimations due to poor matrix spike and serial dilution performance.

The aluminum, chromium, copper, iron, lead and zinc results from this project have been qualified as estimations due to poor precision in the analysis of field split duplicate samples.

4.0 SITE INVESTIGATION RESULTS

The results of the Remedial Investigations are described in the following Report sections. Laboratory analytical reports are provided electronically on compact disk in Attachment D.

4.1 Subsurface Soil Investigation Results

Soil analytical results were compared to the NYSDEC Environmental Remediation Programs 6 NYCRR Part 375-6 Unrestricted Use and Commercial Use soil cleanup objectives (SCOs).

4.1.1 On-site Subsurface Soil Sample Results

During the completion of the Remedial Investigation, seventeen test pit excavations and two subsurface borings were completed on the Property. Petroleum staining and/or olfactory evidence of contamination was observed in all on-site test pits and borings, except: TP-15, TP-16, and TP-17. Headspace organic volatile readings ranged from 0.0 to 2,789 ppm. The results of the headspace analysis for every sample are provided in the test pit/boring logs (see Attachment A).

A total of 27 soil samples were collected from on-site test pits and two soil samples were collected from the on-site subsurface borings. No VOCs were detected in on-site soils in excess of the Commercial Use SCOs. The VOCs detected in excess of the Unrestricted Use SCOs within site soils include:

- 1,2,4-Trimethylbenzene (1 sample)
- Acetone (3 samples)
- Xylene (total) (5 samples)

SVOCs detected in excess of the Unrestricted Use SCOs within site soils include:

- Acenaphthene (1 sample)
- Benzo (a) anthracene (8 samples)
- Benzo (b) fluoranthene (7 samples)
- Benzo (k) fluoranthene (8 samples)
- Benzo (a) pyrene (7 Samples)
- Benzo(g,h,i)perylene (1 sample)
- Chrysene (7 samples)
- Dibenz (a,h) anthracene (3 samples)
- Fluoranthene (1 sample)
- Fluorene (1 sample)
- Indo (1,2,3 cd) pyrene (6 samples)
- Naphthalene (1 sample)
- Phenanthrene (1 sample)
- Pyrene (1 sample)

SVOCs detected in excess of the Commercial Use SCOs within site soils include:

- Benzo (a) anthracene (2 samples)
- Benzo (a) pyrene (7 Samples)
- Benzo (b) fluoranthene (4 samples)
- Benzo (k) fluoranthene (1 samples)
- Chrysene (1 sample)
- Dibenz (a,h) anthracene (2 samples)
- Indo (1,2,3 cd) pyrene (2 samples)

VOCs and SVOCs compounds detected in excess of the Unrestricted and Commercial Use SCOs within on-site subsurface soils (see Tables 1 and 2) include:

ON-SITE SOIL SAMPLE ANALYTICAL DATA SUMMARY OF VOC AND SVOC DETECTED IN EXCESS OF SOIL CLEANUP OBJECTIVES

Sample ID	Parameter	Unrestricted SCO (ug/kg)	Commercial SCO (ug/kg)	Detected* Concentration (ug/kg)
Test Pit Investigation				
TP-1 (9-10)	Benzo(k)fluoranthene	800	56,000	2,400
TP-1 (9-10) FD	Benzo(k)fluoranthene	800	56,000	2,600
TP-2 (12-13)	Xylene (total)	260	500,000	430
	Benzo(a)anthracene	1,000	5,600	1,000
TP-4 (8-9)	Xylene (total)	260	500,000	540
TP-4 (8-9) FD	Xylene (total)	260	500,000	460
TP-5 (2-4)	Benzo(a)anthracene	1,000	5,600	1,600
	Benzo(a)pyrene	1,000	1,000	1,300
	Benzo(b)fluoranthene	1,000	5,600	1,700
	Chrysene	1,000	56,000	1,500
	Dibenz(a,h)anthracene	330	560	460
TP-6 (4-5)	Acenaphthene	20,000	500,000	30,000
	Benzo(a)anthracene	1,000	5,600	210,000
	Benzo(a)pyrene	1,000	1,000	180,00
	Benzo(b)fluoranthene	1,000	5,600	250,000
	Benzo(g,h,i)perylene	100,000	500,000	110,000
	Benzo(k)fluoranthene	800	56,000	76,000
	Chrysene	1,000	56,000	210,000
	Fluoranthene	100,000	500,000	430,000
	Fluorene	30,000	500,000	34,000
	Indeno(1,2,3-cd)pyrene	500	5,600	70,000
	Naphthalene	12,000	500,000	16,000
	Phenanthrene	100,000	500,000	430,000
	Pyrene	100,000	500,000	440,000
TP-7 (11-12)	Xylene (total)	260	500,000	280
TP-9 (2-4)	Benzo(a)anthracene	1,000	5,600	2,900
	Benzo(a)pyrene	1,000	1,000	4,000
	Benzo(b)fluoranthene	1,000	5,600	5,200
	Benzo(k)fluoranthene	800	56,000	1,700

ON-SITE SOIL SAMPLE ANALYTICAL DATA SUMMARY OF VOC AND SVOC DETECTED IN EXCESS OF SOIL CLEANUP OBJECTIVES				
Sample ID	**Parameter**	**Unrestricted SCO (ug/kg)**	**Commercial SCO (ug/kg)**	**Detected* Concentration (ug/kg)**
	Chrysene	1,000	56,000	2,900
	Indeno(1,2,3-cd)pyrene	500	5,600	1,500
TP-10 (2-4)	Acetone	50	500,000	160
	Benzo(a)anthracene	1,000	5,600	31,000
	Benzo(a)pyrene	1,000	1,000	26,000
	Benzo(b)fluoranthene	1,000	5,600	31,000
	Benzo(k)fluoranthene	800	56,000	12,000
	Chrysene	1,000	56,000	28,000
	Dibenz(a,h)anthracene	330	560	2,800
	Indeno(1,2,3-cd)pyrene	500	5,600	8,400
TP-12 (11-13)	Benzo(a)anthracene	1,000	5,600	2,400
	Benzo(a)pyrene	1,000	1,000	2,500
	Benzo(b)fluoranthene	1,000	5,600	3,100
	Benzo(k)fluoranthene	800	56,000	1,300
	Chrysene	1,000	56,000	2,200
	Dibenz(a,h)anthracene	330	560	800
	Indeno(1,2,3-cd)pyrene	500	5,600	740
TP-14 (2-3)	Acetone	50	500,000	330
	Benzo(a)anthracene	1,000	5,600	4,700
	Benzo(a)pyrene	1,000	1,000	5,600
	Benzo(b)fluoranthene	1,000	5,600	7,900
	Benzo(k)fluoranthene	800	56,000	1,800
	Chrysene	1,000	56,000	4,200
	Indeno(1,2,3-cd)pyrene	500	5,600	1,400
TP-14 (11-13)	Benzo(a)anthracene	1,000	5,600	3,700
	Benzo(a)pyrene	1,000	1,000	4,700
	Benzo(b)fluoranthene	1,000	5,600	6,700
	Benzo(k)fluoranthene	800	56,000	1,600
	Chrysene	1,000	56,000	3,400
	Indeno(1,2,3-cd)pyrene	500	5,600	1,300
Subsurface Groundwater Investigation				
MW-8 (8-12)	1,2,4-Trimethylbenzene	3,600	190,000	12,000
	Xylene (total)	260	500,000	2,500
MW-9 (8-12)	Acetone	50	500,000	73
*Shading indicates detection in excess of Commercial Use SCO				

Elevated metal concentrations were also identified site wide in the subsurface soils (see Table 3). The metals detected in excess of the Unrestricted and Commercial SCOs within site subsurface soils include:

ANALYTICAL DATA SUMMARY OF METALS DETECTED IN EXCESS OF SOIL CLEANUP OBJECTIVES

Parameter	Number of samples exceeding Unrestricted SCO	Number of samples exceeding Commercial SCO	Unrestricted SCO (ppm)	Commercial SCO (ppm)	Detected Range (ppm)
Arsenic	2	2	13	16	1.1-38
Barium	1	1	350	400	12-660
Copper	6	0	50	270	14-190
Lead	8	0	63	1,000	2.9-950
Nickel	1	0	30	310	5.1–31
Mercury	7	0	0.18	2.8	0.010–1.4
Zinc	6	0	109	10,000	11-620

Two soil samples were collected for analysis of polychlorinated biphenyls at test pit TP-4 and TP-15. No polychlorinated biphenyls were detected within the subsurface soil samples. Three additional soil samples were collected from test pits TP-1, TP-7, and TP-10 for analysis of Total Petroleum Hydrocarbons. A biologically degraded and/or environmentally weathered form of kerosene was detected within samples TP-7 (11-12) and TP-10 (11-13.5). Diesel range organics were identified within samples TP-1 (9-10) and TP-7 (11-12). No other parameters were detected within the samples. The on-site polychlorinated biphenyls and Total Petroleum Hydrocarbons sample analytical results are included within Tables 4 and 14, respectively.

4.1.2 Off-site and Property Boundary Subsurface Soil Sample Results

During the completion of the Remedial Investigation eighteen off-site and property boundary subsurface borings were completed. Olfactory evidence of petroleum contamination was detected in all off-site and property boundary borings, except: SB-4, SB-6, SB-7, and MW-7. Headspace organic volatile analysis was performed utilizing a PID for every boring. Headspace organic volatile readings ranged from 0.0 to 2,444 ppm.

A total of eighteen soil samples were collected from off-site and property boundary subsurface borings. No VOCs or SVOCs were detected in excess of the Commercial Use SCOs.

The VOC and SVOCs detected in excess of the Unrestricted Use SCO within off-site and property boundary subsurface soils (see Tables 5 and 6) include:

OFF-SITE SUBSURFACE BORING SOIL SAMPLE ANALYTICAL DATA SUMMARY OF VOC and SVOC COMPOUNDS DETECTED IN EXCESS OF SOIL CLEANUP OBJECTIVES				
Sample ID	**Parameter**	**Unrestricted SCO (ug/kg)**	**Commercial SCO (ug/kg)**	**Detected Concentration (ug/kg)**
East Water Street Investigation				
SB-1 (12-14)	Xylenes(total)	260	500,000	290
CSB/CMW-3 (4-8)	Xylenes(total)	260	500,000	420
Property Boundary Investigation				
MW-4 (4-8)	Acetone	50	500,000	120
MW-5 (8-12) FD	Acetone	50	500,000	55
MW-6 (8-12)	Benzo(b)fluoranthene	1,000	5,600	1,000

Off-site soil samples were analyzed for lead (only) with the exception of MW-1 (16-20), SB-1 (12-14), MW-2 (8-12), SB-2 (8-12), and MW-3 (8-12). These samples were analyzed for TAL metals due to a reporting error. No metals were detected in excess of Unrestricted or Commercial Use SCOs, except for sample MW-2 (8-12) which exceeded the Unrestricted Use SCO for arsenic (see Table 7).

A total of eleven samples were collected for analysis of Total Petroleum Hydrocarbons from off-site and property boundary subsurface borings. Five additional samples were collected from trench excavations along East Water Street associated with utility work for the neighboring Center of Excellence. The following parameters were identified:

- A degraded pattern was present in sample SB-1 (8-12) which may have started as kerosene or JP8 jet fuel.
- Mineral spirits were detected in sample MW-4 (8-12) at a concentration of 110 ppm.
- Mineral spirits were detected in sample MW-5 (8-12) at a concentration of 10 ppm.
- Lubricating oil was present in sample WSU3-1 as well as a pattern resembling mineral spirits with a concentration of 200 ppm.

A complete summary of all samples and parameters analyzed for Total Petroleum Hydrocarbons is provided in Table 14.

4.2 Groundwater Investigation Results

Groundwater analytical results were compared with the NYSDEC groundwater standards published in the Division of Water Technical and Operations Guidance Series Memorandum (TOGS) 1.1.1.

4.2.1 Results of On-site Groundwater Quality Sampling and Analysis

Groundwater samples were collected from monitoring wells MW-8 and MW-9 on January 19, 2012. During the sampling event a petroleum odor was noted during sample collection at monitoring well MW-9.

The on-site groundwater sample analytical results are included within Table 8, 9 and 10. As shown in the following summary table, several parameters (primarily VOCs) were detected within the groundwater collected from the two monitoring wells in excess of the TOGS 1.1.1 Groundwater Quality Standards:

ON-SITE GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY FOR VOCS AND SVOCS			
Parameter	**TOGS 1.1.1 Groundwater Quality Standards (ug/l)**	**Detected Concentration (ug/l)**	
		MW-8	**MW-9**
VOCs			
1,2,4-Trimethylbenzene	5	628	3.18
1,3,5-Trimethylbenzene	5	176	3.12
Benzene	1	49.4	3.62
Cyclohexane	N/L	345	111
Ethylbenzene	5	404	21.7
Isopropylbenzene	5	54	25.6
Methylcyclohexane	N/L	308	137
n-Butylbenzene	5	11.6	10.6
n-Propylbenzene	5	99.4	49.7
Naphthalene	10	111	29.5
p-isopropyltoluene	5	5.6	7.54
sec-Butylbenzene	5	8	7.38
tert-Butylbenzene	5	<10	1.56
Toluene	5	109	<1
Xylene	15	689	25.1
SVOCs			
Acenaphthene	20	0.43	<10
Dibenzofuran	N/L	0.69	<10
Fluorene	50	0.58	<10
Naphthalene	10	77	23
N/L = Parameter not listed in TOGS 1.1.1, shading indicates detection in excess of groundwater quality standard			

Metals detected in excess of the TOGS 1.1.1 Groundwater Quality Standards include:

ON-SITE GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY FOR METALS DETECTED IN EXCESS OF TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS			
Parameter	**TOGS 1.1.1 Groundwater Quality Standards (ug/l)**	**Detected Concentration (ug/l)**	
		MW-8	**MW-9**
Barium	1.0	1.5	0.86
Cobalt	0.005	0.0086	0.0068
Iron	0.3	0.45	3.6
Manganese	0.3	0.38	0.25
Sodium	20	420	690

4.2.2 Results of Off-site and Property Boundary Groundwater Quality Sampling and Analysis

On February 27 and March 4, 2009, groundwater samples were collected from the temporary monitoring wells installed along East Water Street. Groundwater samples collected from each property boundary monitoring well were sampled on January 19, 2012.

Temporary monitoring well MW-1 produced enough groundwater during sample collection to only analyze for VOCs. This is not considered a significant concern since SVOCs were not detected in excess of TOGS 1.1.1 Groundwater Quality Standards along East Water Street, and since metals analysis was conducted on all other samples. Temporary monitoring well CSB/CMW-3 was installed to obtain groundwater elevation data; therefore, no groundwater samples were collected from this location.

During the sampling event at East Water Street a slight petroleum odor was noted during sample collection from monitoring well CMW-1.

The off-site groundwater sample analytical results are included within Table 11, 12, and 13. As shown in the following summary table (see next page), several parameters (primarily VOCs) were detected within the groundwater collected from the monitoring wells in excess of the TOGS 1.1.1 Groundwater Quality Standards.

OFF-SITE & PROPERTY BOUNDARY GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY FOR VOCS AND SVOCS

Parameter	TOGS 1.1.1 Groundwater Quality Standards (ppb)	Detected Concentration (ug/kg)										
		MW-1	CMW-1	CMW-1 FD	MW-2	CMW-2	MW-3	MW-4	MW-4 FD	MW-5	MW-6	MW-7
VOCs												
1,2,4-Trimethylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	0.79	0.63	0.95	<0.5	<0.5
1,3,5-Trimethylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	0.3	0.30	0.39	<0.5	<0.5
2-Butanone	50	2.24	<10	<10	<100	<10	<10	<10	<10	<10	<10	4.57
Acetone	50	6.49	<10	<10	<100	2.38	1.68	N/A	N/A	N/A	N/A	N/A
Benzene	1	0.17	15.2	14.3	214	0.12	0.18	0.57	0.57	<0.5	<0.5	<0.5
Cyclohexane	N/A	0.35	32.8	24.2	315	0.24	<0.5	4.52	4.59	<0.5	<0.5	<0.5
Ethylbenzene	5	<0.5	0.17	0.14	69.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	5	<0.5	1.96	1.45	75.8	0.28	<0.5	12.3	12.5	<0.5	<0.5	<0.5
Methylcyclohexane	N/L	<0.5	2.68	2.01	203	203	<0.5	<0.5	<0.5	12.4	<0.5	<0.5
n-Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	1.26	1.40	0.75	<0.5	<0.5
n-Propylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	11.4	11.4	0.36	<0.5	<0.5
Naphthalene	10	N/A	N/A	N/A	N/A	N/A	N/A	0.62	0.33	0.34	<1	<1
p-Isopropyltoluene	5	N/A	N/A	N/A	N/A	N/A	N/A	0.22	0.22	0.34	<0.5	<0.5
Sec-Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	1.03	1.02	0.33	<0.5	<0.5
Tert- Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	0.42	0.41	<0.5	<0.5	<0.5
Toluene	5	0.48	0.68	0.53	35.9	0.26	0.32	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichlorethene	5	<0.5	0.9	0.93	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	5	<0.5	0.17	0.14	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene	15	<1	0.54	0.43	287	<1	<1	1.04	0.99	<1	<1	<1
SVOCs												
2-Methylnaphthalene	N/L	N/A	<11	<11	1.5	<11	<10	<10	<10	<10	<10	<10
Acenaphthene	20	N/A	<11	<11	<10	<11	<10	0.94	0.93	<10	<10	<10
Carbazole	N/L	N/A	<11	<11	<10	<11	<10	5	4.4	<10	<10	<10
Dibenzofuran	N/A	N/A	<11	<11	<10	<11	<10	0.62	0.68	<10	<10	<10
Flouranthene	50	N/A	3.3	3.5	<10	2.8	<10	0.96	0.88	0.45	<10	<10
Fluorene	50	N/A	<11	<11	<10	<11	<10	0.89	0.91	<10	<10	<10
Naphthalene	N/L	N/A	<11	<11	1.2	<11	<10	<10	<10	<10	<10	<10
Phenanthrene	50	N/A	2.9	2.9	<10	2.9	<10	<10	<10	0.67	<10	<10
Pyrene	50	N/A	2.4	2.5	<10	2	<10	0.71	0.6	<10	<10	<10

N/L = Parameter not listed in TOGS 1.1.1, N/A = Parameter not analyzed, shading indicates detection in excess of groundwater quality standard

Metals detected in excess of the TOGS 1.1.1 Groundwater Quality Standards include:

ANALYTICAL DATA SUMMARY OF OFF-SITE METALS DETECTED IN EXCESS OF TOGS 1.1.1 GROUNDWATER QUALITY		
Parameter (number of samples exceeding standards)	**Detected Range (ppm)**	**TOGS 1.1.1 Groundwater Quality Standards (ppm)**
Antimony (3 samples)	<0.001 – 0.006	0.003
Arsenic (2 samples)	<0.0053 – 0.033	0.025
Barium (4 samples)	0.1-5.7	1.0
Chromium (2 samples)	0.0041-.095	0.05
Cobalt (6 samples)	0.0046-0.03	0.005
Iron (9 samples)	0.67-97	0.3
Lead (3 samples)	0.0044-0.064	0.025
Magnesium (6 samples)	12 – 230	35
Manganese (5 samples)	0.0082– 1.5	0.3
Nickel (1 sample)	0.0021-0.1	0.1
Sodium (10 samples)	59-1600	20
Thallium (1 sample)	<0.02-0.01	.0005
Zinc (2 samples)	0.01 – 0.24	0.20

Metal concentrations detected in groundwater samples collected along East Water Street could be elevated due to the use of temporary monitoring wells and elevated turbidity levels. This is supported by the lower concentration of these compounds in on-site groundwater.

5.0 QUALITATIVE HUMAN AND ENVIRONMENTAL HEALTH EXPOSURE ASSESSMENT

A qualitative human health risk evaluation was completed as part of the Remedial Investigation. The procedure for performing the risk assessment was consistent with Environmental Protection Agency methodologies, and the NYSDOH Qualitative Human Health Exposure Assessment guidance provided in the May 2010 NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The sequencing of steps was modified to streamline the process consistent with the goals of Brownfield Cleanup Program site investigations. This qualitative exposure assessment was completed using a three-step process, that includes 1) contaminant identification and selection of contaminants of concern, 2) exposure assessment to identify actual or potential human exposure pathways, and 3) environmental exposure assessment to identify actual or potential impacts to fish and wildlife resources.

5.1 Contaminant Identification

Contamination at the site is related to former USTs and the presence of fill material. Data from the Remedial Investigation was used as the basis for the exposure assessment. Sampling was conducted from subsurface soil and groundwater. There was no surface water, surface soil, or air sampling performed as part of the Remedial Investigation. There has been no evaluation of soil vapor intrusion at the site to date. Soil vapor intrusion will be evaluated during the Remedial Alternative Analysis and/or Site Management phase of the project.

Tables 1 through 14 present the results of the Remedial Investigation sampling and analysis

program conducted at the Property. As shown in the following summary table, a number of VOCs, SVOCs, and metals were identified at concentrations above Unrestricted and Commercial Use SCOs or TOGS 1.1.1 Groundwater Quality Standards within the media collected as part of the Remedial Investigation.

CONTAMINANT IDENTIFICATION SUMMARY					
Contaminant	**Sampled Media**		**NYSDEC Standard Exceeded**		
	Ground-water	**Subsurface Soil**	**TOGs 1.1.1**	**Unrestricted Use SCO**	**Commercial Use SCO**
VOCs					
1,2,4-Trimethylbenzene	X	X	X	X	
1,3,5-Trimethylbenzene	X		X		
Acetone		X		X	
Benzene	X		X		
Ethylbenzene	X		X		
Isopropylbenzene	X		X		
n-Butylbenzene	X		X		
n-Propylbenzene	X		X		
p-isopropyltoluene	X		X		
sec-Butylbenzene	X		X		
Toluene	X		X		
Xylene	X	X	X	X	
SVOCs					
Acenaphthene		X		X	
Benzo (a) anthracene	X	X	X	X	X
Benzo (b) fluoranthene		X		X	X
Benzo (k) fluoranthene		X		X	X
Benzo (a) pyrene		X		X	X
Benzo(g,h,i)perylene		X		X	
Bis(2Ethylhexyl)(phthalate	X		X		
Chrysene		X		X	X
Dibenz (a,h) anthracene		X		X	X
Fluoranthene		X		X	
Fluorene		X		X	
Indo (1,2,3 cd) pyrene		X		X	X
Naphthalene	X	X	X	X	
Phenanthrene		X		X	
Pyrene		X		X	
Metals					
Antimony	X		X		
Arsenic	X	X	X	X	X
Barium	X	X	X	X	X
Chromium	X		X		
Cobalt	X		X		
Copper		X		X	
Iron	X		X		

CONTAMINANT IDENTIFICATION SUMMARY					
Contaminant	**Sampled Media**		**NYSDEC Standard Exceeded**		
	Ground-water	**Subsurface Soil**	**TOGs 1.1.1**	**Unrestricted Use SCO**	**Commercial Use SCO**
Lead		X		X	
Magnesium	X		X		
Manganese	X		X		
Nickel	X	X	X	X	
Mercury		X		X	
Sodium	X		X		
Thallium	X		X		
Zinc	X	X	X	X	

5.2 Exposure Assessment

The qualitative exposure assessment consisted of the following two steps:

1. Exposure Setting Characterization – Description of the physical characteristics of the site and populations near the site. This includes information such as soil types, geologic setting, and groundwater flow.

2. Exposure Pathway Identification – Identification of potentially exposed populations and the associated exposure pathway. The exposure pathway consists of four elements:
   - The contaminant source (e.g. - previous release)
   - The transport medium (e.g. - groundwater)
   - The exposure point (e.g. - potable water supply well)
   - The exposure route (e.g. - ingestion)

Exposure Setting Characterization

The 700 Outparcel site is located in a primarily commercial/industrial area of the City of Syracuse. Groundwater flow at the site trends in a southeasterly direction. Hydraulically down gradient from the site, the land usage is primarily commercial. The Syracuse University Center of Excellence is located on an adjoining property to the south and is an educational facility. Access to the Property is restricted with a chain link fence except, for gated entrances that controls vehicular and pedestrian access to the site. Given the location within the City, and the fact that drinking water in the area is provided by a public water supply, groundwater use for potable water is unlikely. Current populations that could potentially be impacted by contaminants at the site are limited due to the location and restricted access to the site.

Contamination leaving the site via the municipal sewer system, if any, would enter the Onondaga County sewer system. If the local sewer authority workers are working on the sewer system at the time that precipitation or runoff from the site was entering the sewers, exposure would be possible, although unlikely. Based on this information, human populations potentially affected would include the following:

- Trespassers – unauthorized visitors to the site
- Area workers – persons working on neighboring properties

- County sewer workers – exposed to contaminated runoff entering the sewers
- General public – pedestrians or vehicle passengers on the adjacent roadways
- Future on-site construction workers – workers involved in site development at the Property (note that this assessment excludes workers performing remedial activities as part of the project)
- Future off-site construction workers – workers involved in site development on neighboring properties
- Future site tenants and customers

Human Exposure Pathway Identification

As described above, the exposure pathway identification consists of the following four steps:

1. Contaminant source – Data from the sampling and analysis program identified levels of contamination in the subsurface soils and shallow groundwater.
2. Transport medium – The transport media for each contaminant source is identified in the table below.
3. Exposure points – The exposure point is the point of potential human contact with the contaminated medium under reasonable current and future land uses. Surface soil was not considered an exposure point since the site is predominately covered with gravel/asphalt. The planned future use of the project site following remedial activities is for commercial purposes. The exposure points for the site are shown in the table below.

SITE CONCEPTUAL MODEL EXPOSURE PATHWAY EVALUATION		
Contaminant Source	**Transport Medium**	**Exposure Point**
Groundwater	Groundwater	Area workers
		Future on-site construction workers
		Future off-site construction workers
	Soil Vapor	Future on-site construction workers
		Future off-site construction workers
		Future site tenants and customers
		Site trespassers
Subsurface soil	Soil	Future on-site and off-site construction workers
		DPW Employees

4. Human Exposure Route – The routes of exposure for each potential exposure point identified above are discussed below:

- Exposure of future on-site workers to site contaminants – On-site workers participating in future site development activities could be directly exposed to several contaminant sources. Future on-site workers could be exposed to site contaminants through groundwater and subsurface soils during general excavation activities, utility installation, foundation construction; contaminated stormwater runoff; and windblown dispersion of volatile vapors. Exposure could occur via ingestion, inhalation, and/or dermal contact.
- Exposure of potential off-site construction workers to site contaminants – Workers participating in future off-site development activities could be exposed to site contaminants through groundwater and subsurface soils during general excavation activities, utility installation, foundation construction; contaminated stormwater runoff; and windblown dispersion of volatile vapors. Exposure could occur via ingestion, inhalation, and/or dermal contact.
- Exposure of site trespassers to site contaminants – Trespassers could be exposed to contaminated stormwater runoff and volatile vapors through windblown dispersion. Exposure could occur via ingestion, inhalation, and/or dermal contact.
- Exposure of area workers to site contaminants – Employees of off-site neighboring businesses could be exposed to site contaminants through groundwater leaching into basements; contaminated stormwater runoff; and windblown dispersion of volatile vapors. Exposure could occur via ingestion, inhalation, and/or dermal contact.
- Exposure of future site tenants and customers to site contaminants – Future site tenants working on the Property could be exposed to site contaminants from contaminated stormwater runoff and windblown dispersion of soil vapor. Possible future construction of buildings on the Property could expose future site tenants and customers to volatile subsurface vapors via soil vapor intrusion.

Under current conditions, human and environmental receptors could be exposed to on-site contaminants via inhalation of particles or vapors, or incidental ingestion of, or dermal contact, with contaminated media. During remedial activities, receptors at and near the Property could be exposed to on-site contaminants. However, the use of appropriate personal protective equipment and dust suppression techniques would minimize the risk of exposure during remedial activities.

No complete exposure pathways to contaminants at the Property have been identified in connection of post remediation activities, assuming that on-site contaminants will be properly removed, treated, and/or engineering controls instituted.

5.3 Environmental Exposure Assessment

The purpose of the environmental exposure assessment is to identify actual or potential impacts to fish and wildlife resources from site contaminants of ecological concern. According to the NYSDEC Environmental Mapper the site is located in an area of concern related to rare plants and animals. However, the areas of concern shown for rare plants and animals are not precise locations. Rather, they show those generalized areas where the New York Natural Heritage Program has information in its databases regarding rare animals and/or plants. These generalized areas show the vicinity of actual, confirmed observations and collections of rare animals and plants. Since the current site is predominately covered with asphalt pavement/gravel and the known source of contaminants is a subsurface release of petroleum it is unlikely the

contaminants could migrate and affect on-site or off-site habitat of endangered, threatened or special concern species or any other fish and wildlife resources.

6.0 CONTAMINANT FATE AND TRANSPORT

The probable fate and transport of contaminants detected on the Property is a function of the individual contaminants and available pathways for the contaminants to migrate. The route contaminants migrate is also dependent on the physical characteristics of the Property and the type and distribution of contaminants.

As noted previously in the report, the presence of contaminants at the Property is the result of former automobile filling station operations and the presence of fill material. USTs associated with the former automobile filling operations and a large amount of impacted soil have been removed from the Property and are considered the source of petroleum related contaminants. The following report sections describe the probable fate and transport of contaminants in the impacted medias at the Property.

6.1 Contaminant Persistence

The analytical results indicate that the primary contaminants of concern detected within subsurface soil consisted of SVOCs and metals. While the primary contaminants of concern in groundwater are VOCs.

The contaminants are a result of fill material of unknown origin placed on the Property and automobile filling station operations which occurred at the site from 1940 to 1964. It is unknown when the exact date of a release occurred at the site and is possible that the release may have occurred over a number of years. Given that automobile station operations were discontinued at the site approximately fifty years ago and USTs were removed in 2006 it's inferred that the contaminants are persistent in the environment. The reduction of contaminants has likely been limited since a majority of the surrounding area is covered by asphalt.

6.2 Contaminant Migration

Contaminants associated with impacted subsurface soil and groundwater have the potential to migrate through groundwater flow and air by volatilization of contaminated soils and/or groundwater contaminants. Migration of contaminants is influenced by groundwater flow, contaminate volatilization, and diffusion. Contaminant migration at the site is not expected to be influenced by a source of contamination emanating from the Property since the USTs were removed in 2006.

Contaminants in subsurface soil include metals and SVOCs (polycyclic aromatic hydrocarbons) which are characterized by low solubility's and have a tendency to adsorb onto soil particles. Due to the low solubility, metals and SVOCs are not expected to greatly impact groundwater. This is supported by the lack of or low concentration of these compounds in on-site groundwater.

Although VOCs were not identified as significant contaminants of concern in on-site soil, VOCs were identified in shallow groundwater in excess of groundwater standards. The VOCs detected include aromatic hydrocarbons which have moderate solubility's. The migration of VOCs in

groundwater is limited by biodegradation and the lack of a source of contamination.

7.0 SITE INVESTIGATION FINDINGS AND CONCLUSIONS

The nature and extent of contamination at the Property is outlined below:

7.1 Subsurface Soil Investigation Findings

On-site Subsurface Soil Investigation:

- No VOCs were detected in on-site subsurface soil at concentrations above Commercial Use SCO's.
- VOCs including 1,2,4-trimethylbenzene, acetone, and xylenes were detected in on-site subsurface soil at concentrations above Unrestricted Use SCOs.
    - VOCs were detected in two sample locations (TP-10 (2-4) and TP-14 (2-3)) at a depth ranging from 2-4 feet bgs.
    - VOCs were detected in five sample locations (TP-2 (12-13), TP-4 (8-9), TP-7 (11-12), MW-8 (8-12), and MW-9 (12-14.5)) at a depth ranging from 8-14.5 feet bgs.
- SVOCs which included Polycyclic Aromatic Hydrocarbons were detected in on-site subsurface soils at concentrations above Unrestricted and Commercial Use SCOs.
    - Polycyclic Aromatic Hydrocarbons were detected in five sample locations (TP-5 (2-4), TP-6 (4-5), TP-9 (2-4), TP-10 (2-4), and TP-14 (2-3)) at a depth ranging from 2-5 feet bgs at concentrations in excess of Commercial Use SCOs.
    - Polycyclic Aromatic Hydrocarbons were detected in two sample locations (TP-12 (11-13) and TP-14 (11-13)) at a depth ranging from 11-13 feet bgs at concentrations in excess of Commercial Use SCOs.
    - Polycyclic Aromatic Hydrocarbons were detected in two sample locations (TP-1 (9-10) and TP-2 (12-13)) at a depth ranging from 9-13 feet bgs at concentration in excess of Unrestricted Use SCOs.
- Metals were detected in on-site subsurface soils at concentrations above Unrestricted and Commercial Use SCOs.
    - Arsenic and barium were detected in two sample locations (TP-6 (4-5) and TP-9 (2-4)) at a depth of 2-5 feet bgs at concentrations above Commercial Use SCOs.
    - Five metals were detected in ten sample locations at concentrations above Unrestricted Use SCOs at varying depths.
- No polychlorinated biphenyls were detected in the two on-site subsurface soil samples that were collected.
- Total petroleum hydrocarbon analysis identified the following parameters in on-site subsurface soil:
    - A biologically degraded and/or environmentally weathered form of kerosene was detected within two samples (TP-7 (11-12) and TP-10 (11-13.5)) at a depth ranging from 11-13.5 bgs.
    - Diesel range organics were detected within two samples (TP-1 (9-10) and TP-7 (11-12)) at depths ranging from 9-12 feet bgs.

Property Boundary and Off-site Subsurface Soil Investigation:

- VOCs including acetone and xylenes were detected in subsurface soils at concentrations slightly above the Unrestricted Use SCOs.
    - Acetone was detected at two samples locations, one of which was along the north property boundary (MW-5 (8-12)FD) while the other was located along the west property boundary (MW-4 (8-12)) at depths ranging from 8-12 feet bgs.
    - Xylene was detected in two sample locations (CSB/CMW-3 (4-8) and SB-1 (12-14) along East Water Street at depths from 4-8 feet bgs and 12-14 feet bgs.
- Benzo(b)fluoranthene a semi-volatile organic compound was detected in subsurface soil at concentrations equal to the Unrestricted Use SCOs at a depth of 8-12 feet bgs along the north property boundary (MW-6 (8-12)).
- Arsenic was detected in one subsurface soil sample (MW-2 (8-12)) at a concentration above the Unrestricted Use SCOs at a depth of 8-12 feet bgs along East Water Street.
- Total petroleum hydrocarbon analysis identified the following parameters in subsurface soil samples collected from the property boundary and off-site subsurface soil samples:
    - Mineral spirits were detected within two samples (MW-4 (8-12) and MW-5 (8-12)) at a depth of 8-12 feet bgs along the north and west property boundary.
    - Lubricating oil and a pattern resembling mineral spirits was identified in a soil sample (WSU3-2) collected from a utility excavation associated with the Syracuse University Center of Excellence.
    - A degraded pattern was identified in a soil sample (SB-1 (12-14)) collected along East Water Street which may have started as kerosene of JP8 jet fuel.

7.2 Subsurface Soil Investigation Conclusions

- Olfactory evidence of petroleum contamination was detected in most test pits, soil borings, and monitoring wells. The presence of nuisance soil contamination appears to be present over a majority of the Property except for the eastern extents.
- Soil contamination primarily related to VOCs is present at varying depths from 8.0 feet bgs to 13.0 feet bgs in two areas at the site based on the results of analytical testing and field screening.
    - Portions of the former underground storage tank excavation boundary.
    - Southeast of the former pump island and UST excavation.
- Soil contamination primarily related to Polycyclic Aromatic Hydrocarbons and metals associated with the presence of fill material is present at varying depths primarily from 0.5 feet bgs to 8.0 feet bgs across a large portion of the Property based on the results of analytical testing and field screening.
- Subsurface soils along East Water Street and the north, east, and west property boundary are not impacted by petroleum related contaminants that significantly exceed SCOs.
- The results of the total petroleum hydrocarbon analysis indicate that there may be multiple types of contamination in the vicinity of the Property some of which are not related to automobile filling operations.

7.3 Groundwater Investigation Findings

On-site Groundwater Investigation:

- Petroleum related VOCs (primarily BTEX) were detected in groundwater samples collected from on-site monitoring wells (MW-8 and MW-9) above TOGS 1.1.1 Groundwater Quality Standards.
- No SVOCs were detected in groundwater samples collected from on-site monitoring wells above TOGS 1.1.1 Groundwater Quality Standards.
- Concentrations of five metals were detected in groundwater collected from on-site monitoring well MW-8 above TOGS 1.1.1 Groundwater Quality Standards.
- Concentrations of three metals were detected in groundwater collected from on-site monitoring well MW-9 above TOGS 1.1.1 Groundwater Quality Standards.

Property Boundary and Off-site Groundwater Investigation:

- Petroleum related VOCs (primarily BTEX) were detected in two groundwater samples (CMW-1 and MW-2) collected from off-site temporary groundwater monitoring wells along East Water Street above NYSDEC Class GA Groundwater Quality Standards.
- Groundwater sample (MW-4) collected from the monitoring well along the west property boundary contained concentrations of VOCs (isopropylbenzene and n-propylbenzene) slightly above TOGS 1.1.1 Groundwater Quality Standards.
- No SVOCs were detected above TOGS 1.1.1 Groundwater Quality Standards in groundwater samples collected from the property boundaries and off-site temporary monitoring wells along East Water Street.
- Concentrations of thirteen metals were detected in groundwater samples collected from temporary monitoring wells along East Water Street and monitoring wells located along the property boundaries above TOGS 1.1.1 Groundwater Quality Standards.

7.4 Groundwater Investigation Conclusions

- Depth-to-groundwater measurements indicate that groundwater in the vicinity of the site flows in a south/southeast direction.
- An area of petroleum related VOC groundwater contamination (primarily BTEX) is present over the central portion of the Property and extends off-site to the south.
- The greatest concentration of groundwater contamination is present east of the former UST excavation and improves further to the east and south.

7.5 Remedial Alternatives Analysis

Based on the results of the Remedial Investigation, a remedial alternatives analysis is recommended to screen appropriate remedial technologies which can coincide with future development of the Property.

TABLES

Table 1
Summary of On-Site Soil Sample Analysis Data
TCL-VOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	TP-1 (6-8)	TP-1 (9-10)	TP-1 FD (9-10)	TP-2 (12-13)	TP-3 (8-10)	TP-4 (8-9)	TP-4 FD (8-9)	TP-5 (2-4)	TP-5 (10-12)	TP-6 (4-5)	TP-6 (12-13)	TP-7 (8-9)	TP-7 (11-12)	TP-8 (10-12)	TP-9 (2-4)	TP-9 (10-12)	TP-10 (2-4)	TP-10 (11-13.5)	TP-11 (6-8)	TP-11 (10-12)	TP-12 (11-13)	TP-13 (11-13)	TP-14 (2-3)	TP-14 (11-13)	TP-15 (11-13)	TP-16 (6-8)	TP-16 (11-13)	TP-17 (6-8)	TP-17 (11-13)	MW-8 (6-12)	MW-9 (12-14.5)
EPA 8260B			8/24/2011	8/24/2011	8/24/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	1/17/2012	1/13/2012
1,1,1-Trichloroethane	680	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,1,2,2-Tetrachloroethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4 UJ	< 5.5	< 3.2 UJ	< 8.7	< 3	< 2.9	< 3	< 3 UJ	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320 UJ	< 2.8
1,1,2-Trichloro-1,2,2- trifluoroethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,1,2-Trichloroethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,1-Dichloroethane	270	240000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,1-Dichloroethene	330	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 17	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,2,4-Trichlorobenzene	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8 UJ	< 11	< 6.5 UJ	< 17	< 6	< 5.8	< 6	< 6 UJ	< 5.3	< 7 UJ	< 5.7	< 6.2	< 6.9	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
1,2,4-Trimethylbenzene	3600	190000	< 2.9	< 2.7	< 2.6	**1000** J	< 2.9	**740**	**830** J	**1.9** J	**440**	**1.5** J	**1000** J	< 3	**590** D	**15** J	**0.87** J	**30** J	**1.7** J	**1.5** J	**5.5** J	**550** J	**680** DJ	< 2.8	**2.0** J	**69** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**12000 J**	**2.8** J
1,2-Dibromo-3-chloropropane	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9 UJ	< 13 UJ	< 13 UJ	< 6.8 UJ	< 11 UJ	< 1.9 UJ	< 8.7 UJ	< 6 UJ	< 1.7 UJ	< 6 UJ	< 6 UJ	< 5.3 UJ	< 7 UJ	< 5.7 UJ	< 6.2 UJ	< 6.9 UJ	< 6.2 UJ	< 5.6 UJ	< 7 UJ	< 5.8 UJ	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
1,2-Dibromoethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 0.58	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,2-Dichlorobenzene	1100	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4 UJ	< 5.5	< 3.2 UJ	< 8.7	< 3	< 0.58	< 3	< 3 UJ	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,2-Dichloroethane	20	30000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 1.3	< 8.7	< 3	< 1.2	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,2-Dichloropropane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 1.3	< 8.7	< 3	< 1.2	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,3,5-Trimethylbenzene	8400	190000	< 2.9	< 2.7	< 2.6	**57** J	< 2.9	**470** J	**500** J	< 3.4 UJ	**130**	**0.65** J	**69** J	< 3	**150**	**2.1** J	< 3 UJ	**17** J	**0.73** J	**1.4** J	**2.1** J	**270** J	**300** J	< 2.8	**0.92** J	**35** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**4000**	**3.7**
1,3-Dichlorobenzene	2400	280000	< 2.9	< 2.7	< 2.6	< 7.1 UJ	< 2.9 UJ	< 6.6 UJ	< 6.6 UJ	< 3.4 UJ	< 5.5 UJ	< 3.2 UJ	< 8.7 UJ	< 3 UJ	< 2.9 UJ	< 3 UJ	< 3 UJ	< 2.6 UJ	< 3.5 UJ	< 2.9 UJ	< 3.1 UJ	< 3.5 UJ	< 3.1 UJ	< 2.8 UJ	< 3.5 UJ	< 2.9 UJ	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
1,4-Dichlorobenzene	1800	130000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4 UJ	< 5.5	< 3.2 UJ	< 8.7	< 3	< 2.9	< 3	< 3 UJ	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
2-Butanone	N/L	N/L	< 46	< 44	< 42	< 110	< 47	< 110	< 110	< 54	< 89	< 52	< 140	< 48	< 46	< 48	< 48	< 42	< 56	< 46	< 50	< 55	< 50	< 45	**37** J	< 47	< 45	< 47	< 44	< 46	< 43	< 5100	< 45
2-Hexanone	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.8	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.9	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
4-Methyl-2-pentanone	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.8	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.9	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
Acetone	50	500000	< 46 U	< 44 U	< 42 U	< 110	< 25 UJ	< 110 U	< 110 U	< 54	< 89	< 52	< 140	< 48	**46**	< 48 U	< 90 U	< 66 U	**160** J	< 56 U	< 86 U	< 61 U	< 50 U	< 45 U	**330** J	< 47 U	< 50 U	< 47 U	< 70 U	< 46 U	< 43 U	< 5100	**73**
Benzene	60	44000	< 2.9	< 2.7	< 2.6	**2.3** J	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	**0.81** J	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Bromodichloromethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 1.2	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Bromoform	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1 UJ	< 2.9 UJ	< 6.6 UJ	< 6.6 UJ	< 3.4 UJ	< 5.5 UJ	< 3.2 UJ	< 8.7 UJ	< 3 UJ	< 2.9 UJ	< 3 UJ	< UJ	< 2.6 UJ	< 3.5 UJ	< 2.9 UJ	< 3.1 UJ	< 3.5 UJ	< 3.1 UJ	< 2.8 UJ	< 3.5 UJ	< 2.9 UJ	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Bromomethane	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.8	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.9	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
Carbon disulfide	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9 U	< 6.6 UJ	< 6.6 UJ	< 3.4	< 5.5	< 3.2 U	< 8.7 U	< 3 U	< 2.9 U	< 3 U	< 3 U	< 2.6 U	< 3.5 U	< 2.9 U	< 3.1 U	< 3.5 U	< 3.1	< 2.8	< 3.5 UJ	< 2.9	< 2.8	< 2.9 U	< 2.8 U	< 2.9	< 2.7	< 320	**0.9** J
Carbon tetrachloride	760	22000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Chlorobenzene	1100	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Chloroethane	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.9	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.9	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
Chloroform	370	350000	< 2.9	< 2.7	**0.57** J	< 7.1	**0.71** J	< 6.6	< 6.6	**1.0** J	< 5.5	**0.79** J	< 8.7	**0.74** J	< 2.9	< 3	**0.75** J	**0.78** J	**0.99** J	**0.88** J	**0.87** J	< 3.5	**0.84** J	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Chloromethane	N/L	N/L	< 5.8 UJ	< 5.5 UJ	< 5.2 UJ	< 14	< 5.9 UJ	< 13 UJ	< 13	< 6.8 UJ	< 11	< 6.5 UJ	< 17	< 6	< 5.8 UJ	< 6 UJ	< 6 UJ	< 5.3 UJ	< 7 UJ	< 5.7 UJ	< 6.2 UJ	< 6.9 UJ	< 3.1 UJ	< 5.6 UJ	< 7 UJ	< 5.8 UJ	< 5.7 UJ	< 5.9 UJ	< 5.5 UJ	< 5.8 UJ	< 5.4 UJ	< 630	< 5.7
cis-1,2-Dichloroethene	250	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 6.2	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
cis-1,3-Dichloropropene	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	**15**	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Cyclohexane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1 UJ	< 2.9 UJ	< 6.6 UJ	< 6.6 UJ	< 3.4 UJ	< 5.5 UJ	< 3.2 UJ	< 8.7 UJ	< 3 UJ	**170** J	< 3 UJ	< 3 UJ	**6.7** J	< 3.5 UJ	< 2.9 UJ	**8.4** J	< 3.5 UJ	< 3.1 UJ	< 2.8 UJ	< 3.5 UJ	< 2.9 UJ	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**540**	< 2.8
Dibromochloromethane	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 25	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Dichlorodifluoromethane	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.8	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.9	< 3.1	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
Ethylbenzene	1000	390000	< 2.9	< 2.7	< 2.6	**370**	< 2.9 UJ	**120** J	**230** J	< 3.4 UJ	**43** J	< 3.2 UJ	**29** J	< 3 UJ	**87** J	< 3 UJ	< 3 UJ	**5.0** J	< 3.5 UJ	**1.5** J	< 3.1 UJ	**18** J	**18** J	< 2.8 UJ	< 3.5 UJ	**0.78** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320 U	**2.9**
Isopropylbenzene	N/L	N/L	< 2.9	< 2.7	< 2.6	**140**	< 2.9	**94** J	**150** J	< 3.4 UJ	**12**	< 3.2 UJ	**60** J	< 3	**37** J	**1.9** J	< 3 UJ	**5.2** J	< 3.5 UJ	**2.1** J	< 3.1	**26** J	**20** J	< 2.8	< 3.5	**2.9** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**470**	**3.5**
Methyl acetate			< 23	< 22	< 21	< 57	< 24	< 53	< 53	< 27	< 44	< 26	< 69	< 24	< 23	< 24	< 24	< 21	< 28	< 23	< 25	< 28	< 25	< 23	< 28	< 23	< 23	< 24	< 22	< 23	< 22	< 2500 UJ	< 23
Methyl tert-butyl ether	930	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	**1.1** J	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Methylcyclohexane	N/L	N/L	< 2.9	< 2.7	< 2.6	**3700** DJ	< 2.9 UJ	**560** J	870 J	< 3.4 UJ	**84** J	< 3.2 UJ	**290** J	< 3 UJ	**350** J	< 3 UJ	< 3 UJ	**9.8** J	< 3.5 UJ	**5.0** J	**8.5** J	**92** J	**110** J	< 2.8 UJ	**1.9** J	**3.1** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**5800** J	**22** J
Methylene chloride	50	500000	< 37 UJ	< 35 UJ	< 41 UJ	< 25 U	< 5.9 U	< 13	< 15 U	< 6.8	< 14 U	< 6.5	**33** J	< 6 U	< 5.8	< 6	< 6	< 5.3 U	< 7 U	< 5.7 U	< 6.2 U	< 6.9 U	< 6.2 U	< 13 U	< 7.8 U	< 8.5 U	< 36 UJ	< 29 UJ	< 35 UJ	< 39 UJ	< 37 UJ	630	< 5.7
n-Butylbenzene	12000	500000	< 2.9	< 2.7 U	< 2.6 U	**470** J	< 2.9 UJ	**630** J	**600** J	**1.2** J	**52** J	**0.74** J	**160** J	< 3 UJ	**43** J	**32** J	< 3 UJ	**8.5** J	**1.2** J	**5.5** J	**0.92** J	< 3.5 UJ	< 3.1 UJ	< 2.8 UJ	< 3.5 UJ	< 2.9 UJ	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**1300**	**40**
n-Propylbenzene	3900	500000	< 2.9	< 2.7	**0.58** J	**390** J	< 2.9	**270** J	**410** J	< 3.4 UJ	**42**	< 3.2 UJ	**240** J	< 3	**82** J	**14** J	< 3 UJ	**14** J	< 3.5 UJ	**6.2**	**1.1** J	**87** J	**76** J	< 2.8	< 3.5	**6.8** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**1700**	**18**
Naphthalene	N/L	N/L	< 5.8	**1.3** J	< 5.2	**300** J	< 5.9 U	**380** J	**340** J	< 6.8 UJ	**150**	< 6.5 UJ	< 23 U	< 6	**48** J	< 6 U	< 7.9 UJ	< 9.1 U	< 7 UJ	**14**	< 6.2 U	**54** J	**83** J	< 5.6 U	< 7	< 5.8 U	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	**1400**	**52**
p-Isopropyltoluene	N/L	N/L	< 2.9	< 2.7	< 2.6	**130** J	< 2.9 UJ	**170** J	**79** J	< 3.4 UJ	**8.2** J	< 3.2 UJ	**58** J	< 3 UJ	**10** J	**8.4** J	< 3 UJ	**3.5** J	< 3.5 UJ	**1.6** J	< 3.1 UJ	**42** J	**54** J	< 2.8 UJ	< 3.5 UJ	**7.2** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**380** J	**11**
sec-Butylbenzene	11000	500000	< 2.9	**0.72** J	**2** J	**110** J	< 2.9	**130** J	**130** J	< 3.4 UJ	**6.6** J	< 3.2 UJ	**54** J	< 3	**10** J	**8.4** J	< 3 UJ	**2.2** J	< 3.5 UJ	**1.3** J	< 3.1 UJ	**22** J	**27** J	< 2.8 UJ	< 3.5 UJ	**3.3** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	**350** J	**7.7**
Styrene	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
tert-Butyl alcohol	N/L	N/L	< 47 U	< 26 U	< 50 U	< 57 UJ	< 24 UJ	< 53 UJ	< 53 UJ	< 27 UJ	< 44 UJ	< 26 UJ	< 69 UJ	< 24 UJ	< 2.9 UJ	< 24 UJ	< 24 UJ	**29** UJ	< 71 UJ	< 38 UJ	< 48 UJ	< 40 UJ	< 48 UJ	< 29 UJ	< 55 UJ	< 39 UJ	< 30 U	< 24	< 25 U	< 36 U	< 40 U	< 2500 UJ	< 250 UJ
tert-Butylbenzene	5900	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9 UJ	< 6.6	< 6.6	< 3.4 UJ	< 5.5	< 3.2 UJ	< 8.7	< 3	< 23	**0.64** J	< 3 UJ	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	**0.65** J	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Tetrachloroethene	1300	150000	< 2.9	< 2.7	< 2.6	< 7.1 UJ	< 2.9 UJ	< 6.6	< 6.6 UJ	< 3.4	< 5.5 UJ	< 3.2	< 8.7 UJ	< 3 UJ	< 2.9 UJ	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Toluene	700	500000	< 2.9	< 2.7	< 2.6	< 7.1 U	< 2.9	< 6.6	< 6.6 U	< 3.4	**3.5** J	< 3.2	< 8.7	< 3	**5.1** J	< 3	< 3	< 2.6	< 3.5 UJ	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
trans-12-Dichloroethene	190	500000	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
trans-13-Dichloropropene	N/L	N/L	< 2.9	< 2.7	< 2.6	< 7.1	< 2.9	< 6.6	< 6.6	< 3.4	< 5.5	< 3.2	< 8.7	< 3	< 2.9	< 3	< 3	< 2.6	< 3.5	< 2.9	< 3.1	< 3.5	< 3.1	< 2.8	< 3.5	< 2.9	< 2.8	< 2.9	< 2.8	< 2.9	< 2.7	< 320	< 2.8
Trichloroethene	470	200000	< 2.9 UJ	< 2.7 UJ	< 2.6 UJ	< 7.1 UJ	< 2.9 UJ	< 6.6 UJ	< 6.6 UJ	< 3.4 UJ	< 5.5 UJ	< 3.2 UJ	< 8.7 UJ	< 3 UJ	< 2.9 UJ	< 3 UJ	< 3 UJ	< 2.6 UJ	< 3.5 UJ	< 2.9 UJ	< 3.1 UJ	< 3.5 UJ	< 3.1 UJ	< 2.8 UJ	< 3.5 UJ	< 2.9 UJ	< 2.8 UJ	< 2.9 UJ	< 2.8 UJ	< 2.9 UJ	< 2.7 UJ	< 320 UJ	< 5.7 UJ
Trichlorofluoromethane	N/L	N/L	< 5.8	< 5.5	< 5.2	< 14	< 5.9	< 13	< 13	< 6.8	< 11	< 6.5	< 17	< 6	< 5.8	< 6	< 6	< 5.3	< 7	< 5.7	< 6.2	< 6.6	< 6.2	< 5.6	< 7	< 5.8	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	< 630	< 5.7
Vinyl chloride	20	13000	< 5.8 UJ	< 5.5 UJ	< 5.2	< 14	< 5.9	< 13 UJ	< 13	< 6.8 UJ	< 11	< 6.5 UJ	< 17	< 6	< 5.8 UJ	< 6 UJ	< 6 UJ	< 5.3 UJ	< 7 UJ	< 5.7 UJ	< 6.2 UJ	< 6.6 UJ	< 6.2 UJ	< 5.6 UJ	< 7 UJ	< 5.8 UJ	< 5.7 UJ	< 5.9 UJ	< 5.5 UJ	< 5.8 UJ	< 5.4 UJ	< 630	< 5.7
Xylenes (total)	260	500000	< 5.8	< 5.5	< 5.2 UJ	**430** J	< 5.9 UJ	**540** J	**460** J	< 6.8 UJ	**210** J	< 6.5 UJ	**24** J	< 6 UJ	**280** J	< 6 UJ	< 6 UJ	**8.6** UJ	< 7 UJ	**3.8** J	**5.0** J	**97** J	**36** J	< 5.6 UJ	< 7 UJ	**3.2** J	< 5.7	< 5.9	< 5.5	< 5.8	< 5.4	**2500**	**21** J
Total Detected	--	--	0	2.02	3.15	7099	0.71	4104	3729	4.1	1169.3	3.68	2017	0.74	1908.91	98.44	1.62	140.28	164.62	44.78	29.19	1232.26	1404.84	0	372.92	128.83	0	0	0	0	0	30440	258.5
Total TICS Detected	--	--	0	58.08	155	3320	0	4100	4310	0	1240	0	2900	0	890.37	906	0	197.98	0	288	9.2	1659	1690	0	36.9	284	0	0	0	0	0	36600	656
Total	--	--	0	60.1	158.3	10419	0.71	8204	8039	4.1	2409.3	3.68	4917	0.74	2798.91	1004.44	1.62	338.28	164.62	332.78	38.39	2891.26	3094.84	0	409.82	412.83	0	0	0	0	0	67040	914.5

Notes:

1. Results expressed in micrograms per kilogram (ug/kg) = parts per billion (ppb).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.

Table 2
Summary of On-Site Soil Sample Analysis Data
TCL-SVOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	TP-1 (6-8)	TP-1 (9-10)	TP-1 FD (9-10)	TP-2 (12-13)	TP-3 (8-10)	TP-4 (8-9)	TP-4 FD (8-9)	TP-5 (2-4)	TP-5 (10-12)	TP-6 (4-5)	TP-6 (12-13)	TP-7 (8-9)	TP-7 (11-12)	TP-8 (10-12)	TP-9 (2-4)	TP-9 (10-12)	TP-10 (2-4)	TP-10 (11-13.5)	TP-11 (6-8)	TP-11 (10-12)	TP-12 (11-13)	TP-13 (11-13)	TP-14 (2-3)	TP-14 (11-13)	TP-15 (11-13)	TP-16 (6-8)	TP-16 (11-13)	TP-17 (6-8)	TP-17 (11-13)	MW-8 (8-12)	MW-9 (12-14.5)
EPA 8270 C			8/24/2011	8/24/2011	8/24/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/22/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	1/17/2012	1/13/2012
1,1'-Biphenyl	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	18 J	< 380	27 J	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	38 J	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2,4,5-Trichlorophenol	N/L	N/L	< 2000	< 19000	< 18000	< 3800	< 2000	< 1900	< 1900	< 2400	< 1900	< 450000	< 1800	< 2100	< 1900	< 2000	< 10000	< 1800	< 48000	< 1800	< 2000	< 2100	< 4000	< 1900	< 23000	< 19000	< 1900	< 2000	< 1900	< 2000	< 1800	< 2000	< 1900
2,4,6-Trichlorophenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2,4-Dichlorophenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2,4-Dimethylphenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2,4-Dinitrophenol	N/L	N/L	< 2000 UJ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	< 2000 UJ	< 1900 UJ	< 2000 UJ	< 1800 UJ	< 2000	< 1900
2,4-Dinitrotoluene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2,6-Dinitrotoluene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2-Chloronaphthalene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2-Chlorophenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2-Methylnaphthalene	N/L	N/L	< 390	160 J	250 J	53 J	< 400	97 J	49 J	77 J	280 J	8000 J	120 J	< 410	130 J	31 J	160 J	340 J	810 J	90 J	< 400	41 J	470 J	< 380	410 J	270 J	25 J	18 J	< 370	< 390	27 J	160 J	140 J
2-Methylphenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
2-Nitroaniline	N/L	N/L	< 2000	< 19000	< 18000	< 3800	< 2000	< 1900	< 1900	< 2400	< 1900	< 450000	< 1800	< 2100	< 1900	< 2000	< 10000	< 1800	< 48000	< 1800	< 2000	< 2100	< 4000	< 1900	< 23000	< 19000	< 1900	< 2000	< 1900	< 2000	< 1800	< 400	< 1900
2-Nitrophenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 2000	< 380
3,3'-Dichlorobenzidine	N/L	N/L	< 780 UJ	R	R	< 1500	< 800	< 760	< 760	< 950	< 730	< 180000	< 720	< 820	< 760	< 790	< 4100	< 730	< 19000	< 710	< 800	< 820	< 1600	< 770	< 9200	< 7600	< 760 UJ	< 810 UJ	< 740 UJ	< 780 UJ	< 720 UJ	< 400	< 770
3-Nitroaniline	N/L	N/L	< 2000	< 19000	< 18000	< 3800	< 2000	< 1900	< 1900	< 2400	< 1900	< 450000	< 1800	< 2100	< 1900	< 200	< 10000	< 1800	< 48000	< 1800	< 2000	< 2100	< 4000	< 1900	< 23000	< 19000	< 1900	< 2000	< 1900	< 2000	< 1800	< 800	< 1900
4,6-Dinitro-2-methylphenol	N/L	N/L	< 2000 UJ	R	R	< 3800 UJ	< 2000 UJ	< 1900 UJ	< 1900 UJ	< 2400 UJ	< 1900 UJ	< 450000 UJ	< 1800 UJ	< 2100 UJ	< 1900 UJ	< 2000 UJ	< 10000 UJ	< 1800 UJ	< 48000 UJ	< 1800 UJ	< 2000 UJ	< 2100 UJ	< 4000 UJ	< 1900 UJ	< 23000 UJ	< 19000 UJ	< 1900 UJ	< 2000 UJ	< 1900 UJ	< 2000 UJ	< 1800 UJ	< 2000	< 1900
4-Bromophenyl phenyl ether	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 2000	< 380
4-Chloro-3-methylphenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
4-Chloroaniline	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
4-Chlorophenyl phenyl ether	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
4-Methylphenol	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
4-Nitroaniline	N/L	N/L	< 2000	< 19000	< 18000	< 3800	< 2000	< 1900	< 1900	< 2400	< 1900	< 450000	< 1800	< 2100	< 1900	< 2000	< 10000	< 1800	< 48000	< 1800	< 2000	< 2100	< 4000	< 1900	< 23000	< 19000	< 1900	< 2000	< 1900	< 2000	< 1800	< 2000	< 1900
4-Nitrophenol	N/L	N/L	< 2000 UJ	R	R	< 3800	< 2000	< 1900	< 1900	< 2400	< 1900	< 450000	< 1800	< 2100	< 1900	< 2000	< 10000	< 1800	< 48000	< 1800	< 2000	< 2100	< 4000	< 1900	< 23000	< 19000	< 1900 UJ	< 2000 UJ	< 1900 UJ	< 2000 UJ	< 1800 UJ	< 2000	< 1900
Acenaphthene	20000	500000	< 390	490 J	940 J	190 J	< 400	94 J	44 J	290 J	< 370	30000 J	< 360	< 410	< 380	< 390	470 J	59 J	3600 J	170 J	< 400	< 410	400 J	< 380	1200 J	790 J	< 380	30 J	< 370	< 390	< 360	< 400	< 380
Acenaphthylene	100000	500000	< 390	< 3800	240 J	32 J	< 400	23 J	< 380	89 J	< 370	< 89000	< 360	< 410	< 380	< 390	350 J	< 370	1600 J	< 360	< 400	< 410	230 J	< 380	290 J	470 J	34 J	< 400	< 370	< 390	< 360	< 400	< 380
Acetophenone	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Anthracene	100000	500000	< 390	1600 J	3100 J	380 J	< 400	220 J	86 J	800	< 370	78000 J	< 360	< 410	< 380	< 390	1200 J	140 J	15000	370	< 400	< 410	1200	< 380	2800 J	2600 J	50 J	68 J	< 370	< 390	< 360	< 400	< 380
Atrazine	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Benzaldehyde	N/L	N/L	< 390	< 3800	500 J	< 750	< 400	< 380	< 380	25 J	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 200	< 390	< 360	< 400	< 380
Benzo[a]anthracene	1000	5600	< 390 UJ	R	R	1000 J	< 400	690 J	310 J	1600 J	32 J	210000 J	< 360	< 410	< 380	< 390	2900 J	240 J	31000 J	720 J	< 400	< 410	2400 J	53 J	4700 J	3700 J	300 J	220 J	< 370 UJ	< 390 UJ	< 360 UJ	< 400	< 380 U
Benzo[a]pyrene	1000	1000	< 390 UJ	R	R	780 J	< 400	580 J	450 J	1300 J	19 J	180000 J	< 360	< 410	< 380	< 390	4000 J	360 J	26000 J	650 J	< 400	< 410	2500 J	280 J	5600 J	4700 J	440 J	390 J	< 370 UJ	< 390 UJ	< 360 UJ	< 400	16 J
Benzo[b]fluoranthene	1000	5600	< 390 UJ	R	R	960 J	< 400	730 J	600 J	1700 J	23 J	250000 J	< 360	< 410	< 380	< 390	5200 J	510	31000 J	850 J	< 400	< 410	3100 J	420 J	7900 J	6700 J	610 J	580 J	< 370 UJ	< 390 UJ	< 360 UJ	< 400	19 J
Benzo[g,h,i]perylene	100000	500000	< 390 UJ	R	R	410 J	< 400	250 J	330 J	570	< 370	110000	< 360	< 410	< 380	< 390	2400	280 J	12000	420	< 400	< 410	1100	250 J	3300 J	2900 J	290 J	400 UJ	< 370 UJ	< 390 UJ	< 360 UJ	< 400	< 380
Benzo[k]fluoranthene	800	56000	< 390	2400 J	2600 J	430 J	< 400	300 J	150 J	630 J	< 370	76000 J	< 360	< 410	< 380	< 390	1700 J	71 J	12000 J	240 J	< 400	< 410	1300 J	27 J	1800 J	1600 J	150 J	< 110 J	< 370	< 390	< 360	< 400	< 380
bis(2-Chloroethoxy)methane	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
bis(2-chloroethyl)ether	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
bis(2-chloroisopropyl)ether	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400 U	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	390	< 360	< 400	< 380
bis(2-Ethylhexyl)phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750 U	< 400	< 380 U	< 380	< 470 U	< 370 U	< 89000	< 360 U	< 410 U	< 380 U	< 390 U	< 2100 U	< 370 U	< 9400	< 360 U	< 400 U	< 410 U	< 780 U	< 380 U	< 4600	< 3800	< 380 U	< 400 U	< 370 U	< 390 U	< 360 U	< 400	< 380 U
Butyl benzyl phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Caprolactam	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Carbazole	N/L	N/L	< 390	390 J	1100 J	180 J	< 400	62 J	32 J	360 J	< 370	57000 J	< 360	< 410	< 380	< 390	500 J	62 J	5100 J	380 J	< 400	< 410	470 J	< 380	1200 J	670 J	20 J	43 J	< 370	< 390	< 360	< 400	< 380
Chrysene	1000	56000	< 390 UJ	R	R	880	< 400	570 J	280 J	1500 J	20 J	210000 J	< 360	< 410	< 380	< 390	2900	220 J	28000 J	740 J	< 400	< 410	2200 J	51 J	4200 J	3400 J	270 J	220 J	< 370 UJ	< 390 UJ	17 J	< 400	16 J
Di-n-butyl phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	21 J	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380 U
Di-n-octyl phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	9200 J	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Dibenz[a,h]anthracene	330	560	< 390	< 3800	< 3600 U	< 750	< 400	< 380 U	320 J	460 J	< 370	< 89000 U	< 360	< 410	< 380	< 390	< 2100 U	300 J	2800 J	320 J	< 400	< 410	800	300 J	< 4600	< 3800	< 380 U	< 400	< 370	< 390	< 360	< 400	< 380
Dibenzofuran	N/L	N/L	< 390	440 J	740 J	110 J	< 400	67 J	31 J	160 J	< 370	25000 J	< 360	< 410	< 380	< 390	270 J	35 J	< 9400	160 J	< 400	< 410	230 J	< 380	870 J	670 J	18 J	23 J	< 370	< 390	< 360	< 400	< 380
Diethyl phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Dimethyl phthalate	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	57000	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Fluoranthene	100000	500000	< 390 UJ	R	R	2400 J	< 400	1200 J	500 J	3300 J	45 J	430000 J	< 360 UJ	< 410 UJ	16 J	< 390 UJ	5700 J	510 J	5300 J	1800 J	< 400 UJ	< 410 UJ	4800 J	48 J	9600 J	7800 J	460 J	460 J	< 370 UJ	< 390 UJ	32 J	< 400	24 J
Fluorene	30000	500000	< 390	670 J	1200 J	160 J	< 400 UJ	120 J	46 J	290 J	< 370	34000 J	< 360	< 410	< 380	< 390	480 J	63 J	< 9400	190 J	< 400	< 410	420 J	< 380	1300 J	1300 J	19 J	29 J	< 370	< 390	< 360	< 400	< 380
Hexachlorobenzene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Hexachlorobutadiene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380 UJ	< 400	< 370	< 390	< 360 UJ	< 400	< 380
Hexachlorocyclopentadiene	N/L	N/L	< 390 UJ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	< 3800	< 380	< 400 UJ	< 370 UJ	< 390 UJ	< 360	< 400	< 380
Hexachloroethane	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Indeno[1,2,3-cd]pyrene	500	5600	< 390 UJ	R	R	320 J	< 400	220 J	190 J	360 J	< 370	70000 J	< 360	< 410	80 J	< 390	1500 J	140 J	8400 J	290 J	< 400	< 410	740 J	100 J	1400 J	1300 J	140 J	110 J	< 370 UJ	< 390 UJ	69 J	< 400	< 380
Isophorone	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
N-Nitroso-di-n-propylamine	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
N-Nitrosodiphenylamine	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	380	< 400	< 370	< 390	< 360	< 400	< 380
Naphthalene	12000	500000	< 390	200 J	340 J	89 J	< 400	44 J	37 J	90 J	200 J	16000 J	< 360	< 410	56 J	< 390	200 J	140 J	1000 J	69 J	< 400	< 410	420 J	< 380	600 J	250 J	40 J	20 J	< 370	< 390	25 J	93 J	49 J
Nitrobenzene	N/L	N/L	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Pentachlorophenol	800	6700	< 2000 UJ	R	R	< 3800	< 2000	< 1900	< 1900 UJ	< 2400 UJ	< 1900	< 450000 UJ	< 1800	< 2100	< 1900 UJ	< 2000	< 10000 UJ	< 1800 UJ	< 48000 UJ	< 1800 UJ	< 2000	< 2100	< 4000 UJ	< 1900 UJ	< 23000 UJ	< 19000 UJ	< 1900 UJ	< 2000 UJ	< 1900 UJ	< 2000 UJ	< 1800 UJ	< 2000	< 1900
Phenanthrene	100000	500000	< 390 UJ	R	R	1900 J	< 400	730 J	260 J	2800 J	32 J	430000 J	< 360	< 410	17 J	< 390	4400 J	490 J	52000 J	2000 J	< 400	< 410	4000 J	19 J	11000 J	8800 J	180 J	380 J	< 370 UJ	< 390 UJ	22 J	17 J	25 J
Phenol	330	500000	< 390	< 3800	< 3600	< 750	< 400	< 380	< 380	< 470	< 370	< 89000	< 360	< 410	< 380	< 390	< 2100	< 370	< 9400	< 360	< 400	< 410	< 780	< 380	< 4600	< 3800	< 380	< 400	< 370	< 390	< 360	< 400	< 380
Pyrene	100000	500000	< 390 UJ	R	R	2200 J	< 400	1200 J	590 J	3100 J	45 J	440000 J	< 360	< 410	17 J	< 390	6300 J	500 J	59000 J	1700 J	< 400	< 410	4600 J	67 J	11000 J	8400 J	570 J	520 J	< 370 UJ	< 390 UJ	31 J	< 400	23 J
Total Detected	--	--	0	6190	11010	12421	0	7215	4305	19501	696	2665000	120	0	186	31	40630	4389	360810	11180	0	41	29208	1315	69170	56050	3566	3511	0	0	223	270	312
Total Detected TICS	--	--	250	15900	32400	2260	370	2300	350	6680	350	523000	2200	400	890	790	7570	360	133700	2190	370	349	13800	980	11900	8700	1020	2240	340	0	890	5200	605
Total	--	--	250	22090	43410	14681	370	9515	4655	26181	1046	3188000	2320	400	1076	821	48200	4749	494510	13370	370	390	43008	2295	81070	64750	4586	5751	340	0	1113	5470	917

Notes:

1. Results expressed in micrograms per kilogram (ug/kg) = parts per billion (ppb).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.
5. N/L = Not Listed.

Table 3
Summary of On-Site Soil Sample Analysis Data
Metals
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	TP-1 (6-8)	TP-1 (9-10)	TP-1 FD (9-10)	TP-2 (12-13)	TP-3 (8-10)	TP-4 (8-9)	TP-4 FD (8-9)	TP-5 (2-4)	TP-5 (10-12)	TP-6 (4-5)	TP-6 (12-13)	TP-7 (8-9)	TP-7 (11-12)	TP-8 (10-12)	TP-9 (2-4)	TP-9 (10-12)	TP-10 (2-4)	TP-10 (11-13.5)	TP-11 (6-8)	TP-11 (10-12)	TP-12 (11-13)	TP-13 (11-13)	TP-14 (2-3)	TP-14 (11-13)	TP-15 (11-13)	TP-16 (6-8)	TP-16 (11-13)	TP-17 (6-8)	TP-17 (11-13)	MW-8 (8-12)	MW-9 (12-14.5)
EPA 6010B			8/24/2011	8/24/2011	8/24/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/22/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/23/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	8/24/2011	1/17/2012	1/13/2012
Aluminum	N/L	N/L	**5400**	**4700**	4900	**11000**	**6300**	**3000**	**1800**	**7500**	**4300**	**17000**	**4400**	**4200**	**4600**	**3700**	**8200**	**3100**	**4700**	**4200**	**16000**	**7400**	**5900**	**5300**	**9900**	**4000**	**4700**	**6400**	**4300**	**10000**	**3700**	**5000**	**6200**
Antimony	N/L	N/L	**0.39** J	**0.36** J	**0.65** J	**1.1** J	**1.2** J	**1.2** J	**1.1** J	**2.1** J	< 1.1 UJ	**1.3** J	< 1.1 UJ	< 1.2 UJ	**1.2** UJ	< 1.2 UJ	**3.5** J	< 1.1 UJ	**14** J	< 1.1 UJ	< 1.2 UJ	< 1.2 UJ	**5** J	< 1.2 UJ	**1.5** J	**0.4** J	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2	< 1.2
Arsenic	13	16	**5.7**	**3.9**	**4**	**3.9**	**4.2**	**2.5**	**1.1** J	**6.8**	**2.1**	**38**	**1.8**	**2.5**	**2.7**	**2**	**21**	**1.3**	**8.5**	**3.8**	**4**	**6.2**	**5.2**	**5.4**	**5.8**	**6.5**	**9.1**	**4.4**	**8.7**	**2.1**	**3.6**	**2.9**	**11**
Barium	350	400	**77** J	**55** J	**59** J	**110**	**75**	**34**	**12**	**130**	**36**	**320**	**15**	**64**	**50**	**39**	**660**	**29**	**110**	**50**	**100**	**97**	**83**	**53**	**120**	**50**	**59** J	**64** J	**38** J	**72** J	**49** J	**56**	**110**
Beryllium	7.2	590	**0.24** J	**0.32** J	**0.30** J	**0.54** J	**0.39** J	**0.21** J	**0.084** J	**0.71** J	**0.18** J	**1.8**	**0.19** J	**0.18** J	**0.24** J	**0.18** J	**1.4**	**0.14** J	**0.48**	**0.23** J	**0.65** J	**0.41** J	**0.32** J	**0.24** J	**0.61** J	**0.26** J	**0.26** J	**0.34** J	**0.24** J	**0.55** J	**0.17** J	**0.23** J	**0.41** J
Cadmium	2.5	9.3	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.4	< 1.1	**2.1**	< 1.1	< 1.2	< 1.2	< 1.2	**0.2** J	< 1.1	< 1.4	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	0.12 J	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
Calcium	N/L	N/L	**45000** J	**150000** DJ	**87000** J	**51000**	**89000**	**140000** D	**52000**	**28000**	**72000**	**99000**	**87000**	**60000**	**86000**	**67000**	**32000**	**66000**	**27000**	**95000**	**18000**	**65000**	**73000**	**74000**	**100000**	**85000**	**49000** J	**93000** J	**41000** J	**2500** J	**49000** J	**66000**	**110000**
Chromium	31	1900	**9.5**	**9.9**	**9.1**	**17**	**13**	**5.8**	**3.4**	**13**	**7.1**	**17**	**7.6**	**7.8**	**7.7**	**6.8**	**11**	**5.3**	**12**	**7.4**	**24**	**12**	**10**	**8.2**	**15**	**8.2**	**7.9**	**12**	**7.2**	**17**	**6.6**	**8.6**	**12**
Cobalt	N/L	N/L	**5.9**	**6.1**	**4.9**	**8**	**6.8**	**5**	**2.4**	**7.4**	**4**	**7.1**	**4.4**	**4.3**	**4.7**	**3.8**	**5.9**	**3.7**	**5.6**	**6.5**	**13**	**9.1**	**6**	**6.1**	**10**	**5.6**	**5.8**	**7.1**	**5.5**	**9**	**3.9**	**6.7**	**9**
Copper	50	270	**19**	**29**	**42**	**17**	**41**	**21**	**18**	**160**	**20**	**120**	**21**	**14**	**24**	**15**	**98**	**21**	**190**	**16**	**15**	**23**	**52**	**22**	**59**	**34**	**28**	**25**	**19**	**15**	**21**	**18**	**21**
Iron	N/L	N/L	**16000**	**10000**	**1000**	**20000**	**16000**	**8500**	**5500**	**16000**	**11000**	**19000**	**9200**	**7600**	**12000**	**8600**	**29000**	**6900**	**11000**	**13000**	**28000**	**19000**	**15000**	**14000**	**19000**	**13000**	**20000**	**14000**	**18000**	**18000**	**12000**	**9900**	**23000**
Lead	63	1000	**4.5** J	**91** J	**81** J	**28** J	**56** J	**9.5** J	**2.9** J	**300** J	**4.7** J	**950** J	**4.2** J	**4.2** J	**17** J	**4** J	**260** J	**11** J	**710** J	**11** J	**9.6** J	**7.5** J	**200** J	**8.1** J	**140** J	**61** J	**12** J	**52** J	**3.4** J	**8.7** J	**7** J	**5.6**	**11.0**
Magnesium	N/L	N/L	**18000**	**34000**	**25000**	**12000**	**22000**	**22000**	**14000**	**8900**	**25000**	**19000**	**29000**	**27000**	**29000**	**26000**	**5500**	**20000**	**4800**	**22000**	**13000**	**25000**	**17000**	**23000**	**17000**	**19000**	**17000**	**29000**	**12000**	**4700**	**18000**	**30000**	**3900** DL
Manganese	1600	10000	**200**	**210**	**210**	**210**	**260**	**280**	**270**	**250**	**290**	**450**	**300**	**190**	**350**	**270**	**350**	**320**	**230**	**240**	**350**	**350**	**360**	**250**	**380**	**250**	**210**	**340**	**170**	**110**	**170**	**280**	**340**
Nickel	30	310	**13**	**13**	**11**	**19**	**16**	**7.9**	**5.1**	**16**	**9.4**	**20**	**9.5**	**10**	**11**	**8.9**	**18**	**10**	**13**	**12**	**31**	**19**	**14**	**13**	**23**	**14**	**13**	**15**	**11**	**26**	**8.8**	**14**	**17**
Potassium	N/L	N/L	**1200**	**2000**	**1300**	**1600**	**1400**	**990**	**540**	**1500**	**1100**	**2600**	**1200**	**1000**	**1200**	**780**	**2000**	**1000**	**750**	**1300**	**2000**	**1500**	**1400**	**1300**	**1900**	**990**	**1000**	**1700**	**930**	**1500**	**870**	**1500**	**2100**
Selenium	3.9	1500	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	**1.1** J	**1.2** J	**1.2** UJ	**1.1** UJ	**1.4** UJ	**1.1** UJ	**2.9** J	**1.1** UJ	**1.2** UJ	**1.2** UJ	< 1.2 UJ	**1.3** J	< 1.1 UJ	**1.3** J	< 1.1 UJ	< 1.2 UJ	< 1.2	< 1.2	< 1.2	**1.2** J	0.59 J	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2	**0.6** J
Silver	2.0	1500	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	**< 1.1**	**0.35** J	< 1.1	< 1.3	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	**1** J	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
Sodium	N/L	N/L	**100** J	**160** J	**580** J	**320** J	**120**	**130** J	**70** J	**350** J	**110** J	**730** J	**330** J	**120** J	**130** J	**230** J	**1100** J	**190** J	**210**	**120** J	**100** J	**270** J	**190** J	**140** J	**240** J	**160** J	**120** J	**210** J	**90** J	**200** J	**100** J	**140**	**210**
Thallium	N/L	N/L	< 2.4	< 2.3	< 2.2	< 2.3	< 2.4	< 2.3	< 2.3	< 2.9	< 2.2	**1.4** J	< 2.2	< 2.5	< 2.3	< 2.4	< 2.5	< 2.2	< 2.8	< 2.2	< 2.4	< 2.5	< 2.4	< 2.3	< 2.8	< 2.3	< 2.3	< 2.5	< 2.3	< 2.4	< 2.2	< 2.4	< 2.4
Vanadium	N/L	N/L	**12**	**12**	**12**	**22**	**16**	**8**	**4.6**	**24**	**10**	**22**	**7.4**	**9.2**	**10**	**9**	**26**	**6.6**	**13**	**9.2**	**26**	**18**	**13**	**11**	**18**	**13**	**13**	**14**	**11**	**19**	**9.6**	**11**	**15**
Zinc	109	10000	**24** J	**57** J	**36** J	**73**	**110**	**25**	**11**	**200**	**24**	**620**	**20**	**20**	**44**	**18**	**180**	**19**	**180**	**25**	**66**	**38**	**270**	**30**	**92**	**48**	**28** J	**55** J	**20** J	**45** J	**20** J	**25**	**40**
EPA 7471A																																	
Mercury	0.18	2.8	**0.018** J	**0.110** J	**0.20**	**0.062** J	< 0.120	**0.010** J	< 0.11	**0.570**	**0.013** J	**0.700**	< 0.110	**0.012** J	**0.028** J	**0.016** J	**0.480**	**0.016** J	**1.400**	**0.028** J	**0.035** J	**0.016** J	**0.130**	**0.024** J	**0.220**	**0.130**	**0.260**	**0.032** J	**0.017** J	**0.031** J	**0.079** J	**0.028** J	**0.052** J
EPA 9012A																																	
Cyanide (total)	27	27	< 0.59	< 0.57	< 0.55	< 0.56	< 0.61	< 0.58	< 0.58	< 0.72	< 0.56	< 0.68	< 0.55	< 0.62	< 0.58	< 0.59	< 0.62	< 0.55	< 0.72	< 0.55	< 0.61	< 0.62	< 0.59	< 0.58	< 0.7	< 0.58	< 0.59	< 0.61	< 0.56	< 0.59	< 0.55	< 0.6	< 0.58

Notes:

1. Results expressed in milligrams per kilogram (mg/kg) = parts per million (ppm).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.
5. N/L = Not Listed.

Table 4
Summary of On-Site Soil Sample Analysis Data
PCBs
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	TP-4 (8-9)	TP-15 (11-13)
EPA 8082			8/22/2011	8/24/2012
Aroclor-1016	--	--	<0.02	<0.02
Aroclor-1221	--	--	<0.02	<0.02
Aroclor-1232	--	--	<0.02	<0.02
Aroclor-1242	--	--	<0.02	<0.02
Aroclor-1248	--	--	<0.02	<0.02
Aroclor-1254	--	--	<0.02	<0.02
Arcolor-1260	--	--	<0.02	<0.02
Total:	0.1	1.0 surface or 10 subsurface	0	0

Notes:

1. Results expressed in milligrams per kilogram (mg/kg) = parts per million (ppm).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.

Table 5
Summary of Off-Siteand Property Boundary Soil Sample Analysis Data
TCL-VOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	MW-1 (16-20)	SB-1 (12-14)	CMW-1 (12-16)	MW-2 (8-12)	SB-2 (8-12)	CMW-2 (12-14.5)	MW-3 (8-12)	SB-3 (8-12)	CSB/CMW-3 (4-8)	CSB-4 (12-13.8)	MW-4 (8-12)	SB-4 (8-12)	MW-5 (8-12)	MW-5 FD (8-12)	SB-5 (12-14.7)	MW-6 (8-12)	SB-6 (8-12)	MW-7 (8-12)	SB-7 (8-12)
EPA 8260B			2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/27/2009	3/2/2009	3/2/2009	1/17/2012	1/17/2012	1/13/2012	1/13/2012	1/17/2012	1/12/2012	1/17/2012	1/12/2012	1/17/2012
1,1,1-Trichloroethane	680	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,1,2,2-Tetrachloroethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310 UJ	< 3	< 2.9	< 3	< 2.7
1,1,2-Trichloro-1,2,2- trifluoroethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,1,2-Trichloroethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,1-Dichloroethane	270	240000	< 2.6	< 12	< 5.5	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,1-Dichloroethene	330	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,2,4-Trichlorobenzene	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 7.3	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4 UJ
1,2,4-Trimethylbenzene	3600	190000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 14 U	**340** J	**57** J	**8.0** J	**250** J	**1.1** J	**2.1** J	< 3 UJ	< 2.7
1,2-Dibromo-3-chloropropane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 7.3	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
1,2-Dibromoethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,2-Dichlorobenzene	1100	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,2-Dichloroethane	20	30000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,2-Dichloropropane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,3,5-Trimethylbenzene	8400	190000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 14	**130** J	**8.7** J	**0.86** J	< 310	< 3	< 2.9	< 3	< 2.7
1,3-Dichlorobenzene	2400	280000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
1,4-Dichlorobenzene	1800	130000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
2-Butanone	N/L	N/L	< 42	< 200	< 43	< 48	< 47	< 47	< 47	< 46	< 120	< 47	< 230	< 46	< 44	< 45	< 5000	< 49	< 46	< 49	< 44
2-Hexanone	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
4-Methyl-2-pentanone	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Acetone	50	500000	< 42	< 200	< 43	< 48	< 47	< 47	< 47	< 46	< 120	< 47	**120** J	< 46	**34** J	**55** J	< 5000	**29** J	**30** J	**27** J	**38** J
Benzene	60	44000	< 2.6	< 12	**4.4**	**2.1** J	**1.8** J	< 2.9	< 2.9	< 2.9	< 7.3	**9.2**	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Bromodichloromethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Bromoform	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Bromomethane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Carbon disulfide	N/L	N/L	< 2.6	< 12	< 2.7	< 3 U	< 3	< 2.9	< 2.9 U	< 2.9 U	< 7.3 U	< 3	< 14	**1.2** J	< 2.8	< 2.8	< 310	< 3	**0.94** J	< 3	**1.1** J
Carbon tetrachloride	760	22000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Chlorobenzene	1100	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Chloroethane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Chloroform	370	350000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	**0.97** J	**2.50** J	< 310	**1.6** J	< 2.9	**1.2** J	< 2.7
Chloromethane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
cis-1,2-Dichloroethene	250	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
cis-1,3-Dichloropropene	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Cyclohexane	N/L	N/L	< 2.6	**230** J	< 2.7	**11**	**1.3** J	< 2.9	< 2.9	< 2.9	**59** J	**6.2**	< 14	**600** EJ	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Dibromochloromethane	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Dichlorodifluoromethane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Ethylbenzene	1000	390000	< 2.6	**280** J	< 2.7	**23**	**5.1**	< 2.9	< 2.9	< 2.9	**28** J	< 3	< 14	< 2.9	**1.5** J	< 2.80 U	< 310	< 3	< 2.9	< 3	< 2.7
Isopropylbenzene	N/L	N/L	< 2.6	**580** J	< 2.7	**15**	**3.2**	**5**	< 2.9	< 2.9	**610** D	**13**	**22** J	**37** J	**2.3** J	**0.57** J	< 310	< 3	< 2.9	< 3	< 22
Methyl acetate	N/L	N/L	< 21	< 100	< 21	< 24	< 24	< 23	< 23	< 23	< 58	< 24	< 110	< 23	< 22	< 22	< 2500 UJ	< 24	< 23	< 24	< 2.7
Methyl tert-butyl ether	930	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Methylcyclohexane	N/L	N/L	< 2.6	**1100** D	< 2.7	**32**	**5.4**	**1.4** J	< 2.9	R	**700** DJ	**1.4** J	< 14 UJ	**940** EJ	**69** J	**5.0** J	**3300** J	< 3 UJ	< 2.9 UJ	< 3 UJ	< 2.7 UJ
Methylene chloride	50	500000	< 5.2	< 25 U	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
n-Butylbenzene	12000	500000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**60** J	**340** J	**13**	**5.8**	**300** J	< 3 UJ	< 2.9 UJ	< 3	< 2.7
n-Propylbenzene	3900	500000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**23** J	**150** J	**10**	**2.40** J	**170** J	**1.2** J	**1.0** J	< 3	< 2.7
Naphthalene	N/L	N/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 28 U	< 5.8	**15**	**11.0**	**93** U	< 6.1	**2.9** J	< 6.1	< 5.4
p-Isopropyltoluene	N/L	N/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 14 U	**130** J	**2.3** J	**1.2** J	**140** J	< 3	< 2.9	< 3	< 2.7
sec-Butylbenzene	11000	500000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15** J	**98** J	**2.8** J	**2.1** J	**110** J	**1.0** J	**2.4** J	< 3	< 2.7
Styrene	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
tert-Butyl alcohol	N/L	N/L	< 21	< 100	< 21	< 24	< 24	< 23	< 23	< 23	< 58	< 24	< 1200 UJ	< 250 UJ	< 240 UJ	< 240 UJ	< 2500 UJ	< 270 UJ	< 250 UJ	< 270 UJ	< 240 UJ
tert-Butylbenzene	5900	500000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Tetrachloroethene	1300	150000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Toluene	700	500000	< 2.6	< 12	< 2.7	**1.3** J	**0.91** J	< 2.9	< 2.9	< 2.9	< 7.3	**1.1** J	< 14	< 2.9	**0.63** J	**1.0** J	< 310	< 33	< 2.9	< 33	< 2.7
trans-1,2-Dichloroethene	190	500000	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
trans-1,3-Dichloropropene	N/L	N/L	< 2.6	< 12	< 2.7	< 3	< 3	< 2.9	< 2.9	< 2.9	< 7.3	< 3	< 14	< 2.9	< 2.8	< 2.8	< 310	< 3	< 2.9	< 3	< 2.7
Trichloroethene	470	200000	< 2.6 UJ	< 12 UJ	< 2.7 UJ	< 3 UJ	< 3 UJ	< 2.9 UJ	< 2.9 UJ	< 2.9 UJ	< 7.3 UJ	< 3 UJ	< 14 UJ	< 2.9 UJ	< 2.8 UJ	< 2.8 UJ	< 310 UJ	< 3 UJ	< 2.9 UJ	< 3 UJ	< 2.7 UJ
Trichlorofluoromethane	N/L	N/L	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Vinyl chloride	20	13000	< 5.2	< 25	< 5.5	< 6	< 5.9	< 5.9	< 5.8	< 5.8	< 15	< 5.9	< 28	< 5.8	< 5.5	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Xylenes (total)	260	500000	< 5.2	**290** J	< 5.5	**32**	**8**	< 5.9	< 5.8	< 5.8	**420** J	< 5.9	< 28	< 5.8 U	**4.8** J	< 5.6	< 620	< 6.1	< 5.8	< 6.1	< 5.4
Total Detected	--	--	0	2480	4.4	116.4	25.71	6.4	0	0	1817	30.9	240	2766.2	222	95.43	4363	34	39.3	28.2	39.1
Total Detected TICS	--	--	0	10520	34.6	446	89.9	18.9	130.6	2110	4400	173.8	11021.1	2041	354	377	12100	148.4	160.6	0	56.9
Total	--	--	0	13000	39.0	**562.4**	115.6	25.3	130.6	2110	6217.0	204.7	**11261.1**	**4807.6**	**576.0**	**472.2**	**16463**	**182.4**	**199.9**	**28.2**	**96**

Notes:

1. Results expressed in micrograms per kilogram (ug/kg) = parts per billion (ppb).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.
5. N/L = Not Listed.
6. N/A = Not Available.

Table 6
Off-Site and Property Boundary Sample Analysis Data
TCL-SVOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	MW-1 (16-20)	SB-1 (12-14)	CMW-1 (12-16)	MW-2 (8-12)	SB-2 (8-12)	CMW-2 (12-14.5)	MW-3 (8-12)	SB-3 (8-12)	CSB/CMW-3 (4-8)	CSB-4 (12-13.8)	MW-4 (8-12)	SB-4 (8-12)	MW-5 (8-12)	MW-5 FD (8-12)	SB-5 (12-14.7)	MW-6 (8-12)	SB-6 (8-12)	MW-7 (8-12)	SB-7 (8-12)
EPA 8270 C			2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/27/2009	3/2/2009	3/2/2009	1/17/2012	1/17/2012	1/13/2012	1/13/2012	1/17/2012	1/12/2012	1/17/2012	1/12/2012	1/17/2012
1,1'-Biphenyl	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2,4,5-Trichlorophenol	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 2000	< 1900	< 1800	< 1900	< 3900	< 4000	< 1900	< 2100	< 1900
2,4,6-Trichlorophenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2,4-Dichlorophenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2,4-Dimethylphenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2,4-Dinitrophenol	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 2000	< 1900	< 1800	< 1900	< 3900	< 4000	< 1900	< 2100	< 1900
2,4-Dinitrotoluene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2,6-Dinitrotoluene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2-Chloronaphthalene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2-Chlorophenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2-Methylnaphthalene	N/L	N/L	< 360	**170** J	< 380	**57** J	**530**	< 430	< 390	< 390	**91** J	< 390	**27** J	**86** J	**380**	**170** J	< 770	**78** J	< 380	< 410	< 370
2-Methylphenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
2-Nitroaniline	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 400	< 1900	< 1800	< 1900	< 770	< 4000	< 1900	< 2100	< 1900
2-Nitrophenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 2000	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
3,3'-Dichlorobenzidine	N/L	N/L	< 730	< 770	< 760	< 810	< 790	< 850	< 790	< 780	< 800	< 780	< 400	< 740	< 710	< 740	< 770	< 1600	< 770	< 830	< 740
3-Nitroaniline	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 800	< 1900	< 1800	< 1900	< 770	< 4000	< 1900	< 2100	< 1900
4,6-Dinitro-2-methylphenol	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 2000	< 1900	< 1800	< 1900	< 770	< 4000	< 1900	< 2100	< 1900
4-Bromophenyl phenyl ether	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 2000	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
4-Chloro-3-methylphenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
4-Chloroaniline	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
4-Chlorophenyl phenyl ether	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
4-Methylphenol	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
4-Nitroaniline	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 2000	< 1900	< 1800	< 1900	< 770	< 4000	< 1900	< 2100	< 1900
4-Nitrophenol	N/L	N/L	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	**46** J	< 1900	< 1800	< 1900	< 770	< 4000	< 1900	< 2100	< 1900
Acenaphthene	20000	500000	< 360	< 380	< 380	< 410	< 400	< 430	**59** J	**260** J	< 400	< 390	< 400	< 370	**38** J	**16** J	< 770	**160** J	< 380	< 410	< 370
Acenaphthylene	100000	500000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	**43** J	**55** J	< 380	< 410	< 370
Acetophenone	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Anthracene	100000	500000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	**43** J	< 400	< 390	< 400	< 370	< 360	< 370	< 770	**220** J	< 380	< 410	< 370
Atrazine	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Benzaldehyde	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Benzo[a]anthracene	1000	5600	< 360	< 380 U	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**340** J	< 370	**160** J	**120** J	**300** J	**890**	< 380	< 410	< 370
Benzo[a]pyrene	1000	1000	< 360	**46** J	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**350** J	< 370	**140** J	**99** J	**230** J	**720** J	< 380	< 410	< 370
Benzo[b]fluoranthene	1000	5600	< 360	**62** J	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**430**	< 370	**200** J	**140** J	**360** J	**1000**	< 380	< 410	< 370
Benzo[g,h,i]perylene	100000	500000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**170** J	< 370	**74** J	**55** J	< 770	**260** J	< 380	< 410	< 370
Benzo[k]fluoranthene	800	56000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**210** J	< 370	**72** J	**58** J	**130** J	**420** J	< 380	< 410	< 370
bis(2-Chloroethoxy)methane	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
bis(2-chloroethyl)ether	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
bis(2-chloroisopropyl)ether	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
bis(2-Ethylhexyl)phthalate	N/L	N/L	< 360	< 380 U	< 380	< 410 U	< 400	< 430	< 390	< 390	< 400 U	< 390	< 400 U	< 370 U	< 360	< 370 U	< 770	< 790 U	< 380	< 410 U	< 370 U
Butyl benzyl phthalate	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Caprolactam	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Carbazole	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**26** J	< 370	**21** J	< 370	< 770	**220** J	< 380	< 410	< 370
Chrysene	1000	56000	< 360	**62** J	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**310** J	< 370	**150** J	< 370 U	**280** J	**840**	< 380	< 410	< 370
Di-n-butyl phthalate	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370 U	< 360 U	< 370	< 770 U	< 790 U	< 380 U	< 410 U	< 370 U
Di-n-octyl phthalate	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	**120** J	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Dibenz[a,h]anthracene	330	560	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Dibenzofuran	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**30** J	< 370	**22** J	< 370	< 770	**160** J	< 380	< 410	< 370
Diethyl phthalate	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Dimethyl phthalate	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Fluoranthene	100000	500000	< 360	**90** J	< 380	< 410	**46** J	< 430	< 390	< 390	**46** J	< 390	**600**	< 370	**350** J	**240** J	**580** J	**1800**	< 380	**20** J	< 370
Fluorene	30000	500000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	**96** J	< 400	< 390	**50** J	< 370	**37** J	**18** J	< 770	**210** J	< 380	< 410	< 370
Hexachlorobenzene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Hexachlorobutadiene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Hexachlorocyclopentadiene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Hexachloroethane	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Indeno[1,2,3-cd]pyrene	500	5600	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	**140** J	< 370	**66** J	**47** J	< 770	**200** J	< 380	< 410	< 370
Isophorone	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Naphthalene	12000	500000	< 360	**150** J	< 380	< 410	**210** J	**550**	< 390	< 390	**270** J	< 390	< 400 U	< 370	< **100** J	**61** J	< 770	**170** J	< 380	< 410	< 370
Nitrobenzene	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
N-Nitroso-di-n-propylamine	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
N-Nitrosodiphenylamine	N/L	N/L	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Pentachlorophenol	800	6700	< 1800	< 1900	< 1900	< 2100	< 2000	< 2200	< 2000	< 2000	< 2000	< 2000	< 2000	< 1900	< 1800	< 1900	< 3900	< 4000	< 1900	< 2100	< 370
Phenanthrene	100000	500000	< 360	**74** J	< 380	< 410	**41** J	< 430	< 390	**230** J	**120** J	< 390	**240** J	< 370	**220** J	**130** J	**300** J	**1700**	< 380	**19** J	< 370
Phenol	330	500000	< 360	< 380	< 380	< 410	< 400	< 430	< 390	< 390	< 400	< 390	< 400	< 370	< 360	< 370	< 770	< 790	< 380	< 410	< 370
Pyrene	100000	500000	< 360	**89** J	< 380	< 410	**41** J	< 430	< 390	< 390	**58** J	< 390	**520**	< 370	**290** J	**200** J	**500** J	**1600**	< 380	**18** J	< 370
Total Detected	--	--	0	743	0	57	868	550	59	749	585	0	3489	86	2320	1354	2723	10543	0	57	0
Total Detected TICS	--	--	120000	0	0	0	0	0	0	0	43890	1830	18200	9599	13889	1852	1343	1220	830	790	730
Total	--	--	120000	743	0	57	868	550	59	749	44475	1830	21689	9685	16209	3206	4066	11763	830	847	730

Notes:

1. Results expressed in micrograms per kilogram (ug/kg) = parts per billion (ppb).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.
5. N/L = Not Listed.

Table 7
Summary of Off-Site and Property Boundary Soil Sample Analysis Data
Metals
700 Outparcel, LLC Syracuse, NY

Parameter	Unrestricted SCO	Commercial SCO	MW-1 (16-20)	SB-1 (12-14)	CMW-1 (12-16)	MW-2 (8-12)	SB-2 (8-12)	CMW-2 (12-14.5)	MW-3 (8-12)	SB-3 (8-12)	CSB/CMW-3 (4-8)	CSB-4 (12-13.8)	MW-4 (8-12)	SB-4 (8-12)	MW-5 (8-12)	MW-5 FD (8-12)	SB-5 (12-14.7)	MW-6 (8-12)	SB-6 (8-12)	MW-7 (8-12)	SB-7 (8-12)
EPA 6010B			2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/26/2009	3/2/2009	2/26/2009	2/27/2009	3/2/2009	3/2/2009	1/17/2012	1/17/2012	1/13/2012	1/13/2012	1/17/2012	1/12/2012	1/17/2012	1/12/2012	1/17/2012
Aluminum	N/L	N/L	**6400**	**6000**	N/A	**8500**	**5200**	N/A	**5700**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Antimony	N/L	N/L	< 6.6 UJ	< 7 UJ	N/A	< 7.4 UJ	< 7.2 UJ	N/A	< 7.2 UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	13	16	**2.9**	**4**	N/A	**14**	**2.4**	N/A	**2.5**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Barium	350	400	**61**	**71**	N/A	**87**	**47**	N/A	**39**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium	7.2	590	**0.25** J	**0.33** J	N/A	**0.45** J	**0.2** J	N/A	**0.23** J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	2.5	9.3	**0.13** J	**0.16** J	N/A	**0.22** J	< 1.2 U	N/A	< 1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calcium	N/L	N/L	**88000**	**200000**	N/A	**97000**	**72000**	N/A	**76000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	31	1900	**10**	**12**	N/A	**12**	**8.3**	N/A	**9.9**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cobalt	N/L	N/L	**5.6**	**4.7** J	N/A	**7.1**	**3.8** J	N/A	**4.6** J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper	50	270	**14**	**20**	N/A	**20**	**15**	N/A	**13**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron	N/L	N/L	**13000** J	**12000** J	N/A	**24000** J	**12000** J	N/A	**13000** UJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead	63	1000	**5.5**	**12**	**4.7**	**7.6**	**4.9**	**4.8**	**5.2**	**7**	**8.6**	**3**	**37**	**6.3**	**7.3**	**5.8**	**53**	**44**	**2.1**	**6.4**	**3.4**
Magnesium	N/L	N/L	**41000**	**32000**	N/A	**24000**	**24000**	N/A	**29000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	1600	10000	**330**	**290**	N/A	**530**	**490**	N/A	**470**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel	30	310	**14**	**15**	N/A	**19**	**10**	N/A	**11**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Potassium	N/L	N/L	**1500**	**1300**	N/A	**1400**	**1000**	N/A	**1200**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium	3.9	1500	< 1.1 U	< 1.2 U	N/A	< 1.2 U	< 1.2 U	N/A	< 1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver	2.0	1500	< 1.1 U	< 1.2 U	N/A	< 1.2 U	< 1.2 U	N/A	< 1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sodium	N/L	N/L	**160**	**660**	N/A	**480**	**190**	N/A	**340**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thallium	N/L	N/L	< 2.2 U	< 2.3 U	N/A	< 2.5 U	< 2.4 U	N/A	< 2.4 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium	N/L	N/L	**12**	**13**	N/A	**17**	**11**	N/A	**14**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	109	10000	**24**	**29**	N/A	**40**	**24**	N/A	**27**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 7471A																					
Mercury	0.18	2.8	**0.013** J	**0.085** J	**N/A**	**0.034** J	**0.014** J	N/A	**0.01** J	**0.013** J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA 9012A																					
Cyanide (total)	27	27	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

1. Results expressed in milligrams per kilogram (mg/kg) = parts per million (ppm).
2. SCO = Soil Cleanup Objective; Source: NYSDEC Environmental Remediation Programs 6 NYCRR Part 375.
3. Results in BOLD type indicate detected concentrations of parameter analyzed.
4. SHADING indicates results above the SCO.
5. N/L = Not Listed.
6. N/A = Not Available.

Table 8
Summary of On-Site Groundwater Sample Analysis
TCL-VOCs Analysis
700 Outparcel,LLC Syracuse, NY

Parameter	Groundwater Standard	MW-8		MW-9	
EPA 8260B		1/19/2012		1/19/2012	
1,1,1-Trichloroethane	5	< 10		< 1	
1,1,2,2-Tetrachloroethane	5	< 10	UJ	< 1	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	5	< 10		< 1	
1,1,2-Trichloroethane	5	< 10		< 1	
1,1-Dichloroethane	5	< 10		< 1	
1,1-Dichloroethene	5	< 10		< 1	
1,2,4-Trichlorobenzene	5	< 20		< 2	
1,2,4-Trimethylbenzene	5	**628**		**3.18**	
1,2-Dibromo-3-chloropropane	0.04	< 100		< 10	
1,2-Dibromoethane	0.6	< 10		< 1	
1,2-Dichlorobenzene	5	< 10		< 1	
1,2-Dichloroethane	0.6	< 10		< 1	
1,2-Dichloropropane	1	< 10		< 1	
1,3,5-Trimethylbenzene	5	**176**		**3.12**	
1,3-Dichlorobenzene	3	< 10		< 1	
1,4-Dichlorobenzene	3	< 10		< 1	
2-Butanone	50	< 200		< 20	
2-Hexanone	50	< 100		< 10	
4-Methyl-2-pentanone	N/L	< 100		< 10	
Acrylonitrile		< 100		< 10	
Benzene	1	**49.4**		**3.62**	
Bromodichloromethane	50	< 10		< 1	
Bromoform	50	< 20		< 2	
Bromomethane	5	< 20	UJ	< 2	UJ
Carbon disulfide	60	< 10		< 1	
Carbon tetrachloride	5	< 10		< 1	
Chlorobenzene	5	< 10		< 1	
Chloroethane	5	< 20		< 2	
Chloroform	7	< 10		< 1	
Chloromethane	N/L	< 20		< 2	
cis-1,2-Dichloroethene	5	< 10		< 1	
cis-1,3-Dichloropropene	N/L	< 10		< 1	
Cyclohexane	N/L	**345**		**111**	
Dibromochloromethane	50	< 10		< 1	
Dichlorodifluoromethane	5	< 20		< 2	
Ethylbenzene	5	**404**		**21.7**	
Isopropylbenzene	5	**54**		**25.6**	
Methyl acetate	N/L	< 100	UJ	< 10	UJ
Methyl tert-butyl ether	10	< 20		< 2	
Methylcyclohexane	N/L	**308**	J	**137**	DLJ
Methylene chloride	5	< 40		< 4	
n-Butylbenzene	5	**11.6**		**10.6**	
n-Propylbenzene	5	**99.4**		**49.7**	
Naphthalene	10	**111**		**29.5**	
p-isopropyltoluene	5	**5.6**	J	**7.54**	
sec-Butylbenzene	5	**8**	J	**7.38**	
Styrene	5	< 10		< 1	
tert-Butyl alcohol	N/L	< 400	UJ	< 40	UJ
tert-Butylbenzene	5	< 10		**1.56**	
Tetrachloroethene	5	< 10		< 1	
Toluene	5	**109**		< 1	U
trans-1,2-Dichloroethene	5	< 10		< 1	
trans-1,3-Dichloropropene	N/L	< 10		< 1	
Trichloroethene	5	< 10	UJ	< 1	UJ
Trichlorofluoromethane	5	< 20		< 2	
Vinyl chloride	2	< 20		< 2	
Xylenes (total)	15	**689**		**25.1**	
Total Detected	--	2998.0		437.60	
Total Detected TICS	--	1863.60		549.92	
Total	--	4861.60		987.52	

Notes:

1. Results expressed in micrograms per liter (µg/L) = parts per billion (ppb).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1
4. Results in BOLD type indicate detected concentrations of parameter analyzed.
5. SHADING indicates results above the Groundwater Standard.

Table 9
Summary of On-Site Groundwater Sample Analysis
TCL-SVOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Groundwater Standard	MW-8	MW-9
EPA 8270 C		1/19/2012	1/19/2012
1,1'-Biphenyl	5	< 10	< 10
2,4,5-Trichlorophenol	N/L	< 51	< 51
2,4,6-Trichlorophenol	N/L	< 10	< 10
2,4-Dichlorophenol	0.30	< 10	< 10
2,4-Dimethylphenol	50	< 10	< 10
2,4-Dinitrophenol	10	< 51	< 51
2,4-Dinitrotoluene	5	< 10 U	< 10
2,6-Dinitrotoluene	5	< 10	< 10
2-Chloronaphthalene	10	< 10	< 10
2-Chlorophenol	N/L	< 10	< 10
2-Methylnaphthalene	N/L	**27**	< 10
2-Methylphenol	N/L	< 10	< 10
2-Nitroaniline	5	< 51	< 51
2-Nitrophenol	N/L	< 10	< 10
3,3'-Dichlorobenzidine	5	< 20	< 20
3-Nitroaniline	5	< 51	< 51
4,6-Dinitro-2-methylphenol	N/L	< 10	< 10
4-Bromophenyl phenyl ether	N/L	< 10	< 10
4-Chloro-3-methylphenol	N/L	< 10	< 10
4-Chloroaniline	5	< 10	< 10
4-Chlorophenyl phenyl ether	N/L	< 10	< 10
4-Methylphenol	N/L	< 10	< 10
4-Nitroaniline	5	< 51	< 51
4-Nitrophenol	N/L	< 51	< 51
Acenaphthene	20	**0.43** J	< 10
Acenaphthylene	N/L	< 10	< 10
Acetophenone	N/L	< 10	< 10
Anthracene	50	< 10	< 10
Atrazine	7.5	< 10	< 10
Benzaldehyde	N/L	< 10	< 10
Benzo[a]anthracene	0.002	< 10	< 10
Benzo[a]pyrene	MDL	< 10	< 10
Benzo[b]fluoranthene	0.002	< 10	< 10
Benzo[g,h,i]perylene	N/L	< 10	< 10
Benzo[k]fluoranthene	0.002	< 10	< 10
bis(2-Chloroethoxy)methane	5.000	< 10	< 10
bis(2-chloroethyl)ether	1	< 10	< 10
bis(2-chloroisopropyl)ether	N/L	< 10	< 10
bis(2-Ethylhexyl)phthalate	5	< 10 U	< 10 U
Butyl benzyl phthalate	50	< 10	< 10
Caprolactam	N/L	< 10	< 10
Carbazole	N/L	< 10	< 10
Chrysene	0.002	< 10	< 10
Di-n-butyl phthalate	50	< 10	< 10
Di-n-octyl phthalate	50	< 10	< 10
Dibenz[a,h]anthracene	N/L	< 10	< 10
Dibenzofuran	N/L	**0.69** J	< 10
Diethyl phthalate	50	< 10	< 10
Dimethyl phthalate	50	< 10	< 10
Fluoranthene	50	< 10	< 10
Fluorene	50	**0.58** J	< 10
Hexachlorobenzene	0.04	< 10	< 10
Hexachlorobutadiene	0.5	< 10	< 10
Hexachlorocyclopentadiene	5	< 51	< 51
Hexachloroethane	5	< 10	< 10
Indeno[1,2,3-cd]pyrene	0.002	< 10	< 10
Isophorone	50	< 10	< 10
N-Nitroso-di-n-propylamine	N/L	< 10	< 10
N-Nitrosodiphenylamine	50	< 10	< 10
Naphthalene	10	**77**	**23**
Nitrobenzene	0.4	< 10	< 10
Pentachlorophenol	1	< 51	< 51
Phenanthrene	50	**0.57** J	< 10
Phenol	1	< 10	< 10
Pyrene	50	< 10	< 10
Total Detected	--	125.84	33
Total Detected TICS	--	961.61	480
Total	--	1087.45	513

Notes:

1. Results expressed in micrograms per liter (µg/L) = parts per billion (ppb).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1.
4. Results in BOLD type indicate detected concentrations of parameter analyzed.
5. SHADING indicates results above the Groundwater Standard.

Table 10
Summary of On-Site Groundwater Sample Analysis
Metals
700 Outparcel, LLC Syracuse, NY

Parameter	Groundwater Standard	MW-8	MW-9
EPA 6010B		1/19/2012	1/19/2012
Aluminum	N/L	**0.17** J	**1.8** J
Antimony	0.003	< 0.01	< 0.01
Arsenic	0.025	< 0.01	< 0.01
Barium	1.0	**1.5**	**0.86**
Beryllium	0.003	< 0.01	< 0.01
Cadmium	0.0050	< 0.01	< 0.01
Calcium	N/L	**190**	**140**
Chromium	0.05	**0.0069** J	**0.0078** J
Cobalt	0.005	**0.0086** J	**0.0068** J
Copper	0.2	< 0.01	**0.0054** J
Iron	0.3	**0.45**	**3.6**
Lead	0.025	**0.0069** J	**0.0068** J
Magnesium	35	**30**	**24**
Manganese	0.3	**0.38**	**0.25**
Nickel	0.1	**0.0024** J	**0.0046** J
Potassium	N/L	**19** J	**29** J
Selenium	0.01	< 0.01	< 0.01
Silver	0.05	< 0.01	< 0.01
Sodium	20	**420**	**690**
Thallium	0.0005	**0.013** J	< 0.02 UJ
Vanadium	N/L	< 0.01	**0.0054** J
Zinc	0.20	< 0.02	**0.019** J
EPA 7470A			
Mercury	0.0007	< 0.0002	< 0.0002
E335.4			
Total Cyanide	0.200	< 0.01	< 0.01

Notes:

1. Results expressed in micrograms per liter (mg/L).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1..
4. Results in BOLD type indicate detected concentrations of parameter analyzed.
5. SHADING indicates results above the Groundwater Standard.

Table 11
Summary of Off-Site and Property Boundary Groundwater Sample Analysis Data
TCL-VOCs Analysis
700 Outparcel,LLC Syracuse, NY

Parameter	Groundwater Standard	MW-1	CMW-1	CMW-1FD	MW-2	CMW-2	MW-3	MW-4	MW-4 FD	MW-5	MW-6	MW-7
EPA 8260B		2/27/2009	3/4/2009	3/4/2009	2/27/2009	3/4/2009	2/27/2009	1/19/2012	1/19/2012	1/19/2012	1/19/2012	1/19/2012
1,1,1-Trichloroethane	5	< 0.5	< 0.5	< 0.5 U	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trichlorobenzene	5	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**0.79**	**0.63**	**0.95**	< 0.5	< 0.5
1,2-Dibromo-3-chloropropane	0.04	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	0.6	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	0.6	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	1	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**0.3** J	**0.3** J	**0.39** J	< 0.5	< 0.5
1,3-Dichlorobenzene	3	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	3	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone	50	**2.24** J	< 10	< 10	< 100	< 10	< 10	< 10	< 10	< 10	< 10	**4.57** J
2-Hexanone	50	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	N/L	< 5	< 5	< 5	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	50	**6.49** J	< 10	< 10	< 100	**2.38** J	**1.68** J	N/A	N/A	N/A	N/A	N/A
Acrylonitrile		N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5
Benzene	1	**0.17** J	**15.2**	**14.3**	**214**	**0.12** J	**0.18** J	**0.57**	**0.57**	< 0.5	< 0.5	< 0.5
Bromodichloromethane	50	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	50	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	5	< 1	< 1	< 1	< 10	< 1	< 1	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ
Carbon disulfide	60	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 0.5 U	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	5	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	7	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	N/L	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	N/L	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cyclohexane	N/L	**0.35** J	**32.8**	**24.2**	**315** D	**0.24** J	< 0.5	**4.52**	**4.59**	< 0.5	< 0.50	< 0.5
Dibromochloromethane	50	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	5	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 0.5	**0.17** J	**0.14** J	**69.2**	< 0.5	< 0.5	< 0.5 U	< 0.5 U	< 0.5	< 0.5	< 0.5
Isopropylbenzene	5	< 0.5	**1.96**	**1.45**	**75.8**	**0.28** J	< 0.5	**12.3**	**12.5**	**< 0.5**	< 0.5	< 0.5
Methyl acetate	N/L	< 5	< 5	< 5	< 50	< 5	< 5	< 5 UJ	< 5 UJ	< 5 UJ	< 5 UJ	< 5 UJ
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylcyclohexane	N/L	< 0.5	**2.68**	**2.01**	**203**	**0.15** J	< 0.5	< 0.5	< 0.5	**12.4** J	< 0.5	< 0.5
Methylene chloride	5	< 2	< 2	< 2	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**1.26**	**1.40**	**0.75**	< 0.5	< 0.5
n-Propylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**11.4**	**11.4**	**0.36** J	< 0.5	< 0.5
Naphthalene	10	N/A	N/A	N/A	N/A	N/A	N/A	**0.62** J	**0.33** J	**0.34** J	< 1	< 1
p-isopropyltoluene	5	N/A	N/A	N/A	N/A	N/A	N/A	**0.22** J	**0.22** J	**0.34** J	< 0.5	< 0.5
sec-Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**1.03**	**1.02**	**0.33** J	< 0.5	< 0.5
Styrene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl alcohol	N/L	< 20	< 20	< 20	< 200	< 20	< 20	< 20 UJ	< 20 UJ	< 20 UJ	< 20 UJ	< 20 UJ
tert-Butylbenzene	5	N/A	N/A	N/A	N/A	N/A	N/A	**0.42** J	**0.41** J	< 0.5	< 0.5	< 0.5
Tetrachloroethene	5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	5	**0.48** J	**0.68**	**0.53**	**35.9**	**0.26** J	**0.32** J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	5	< 0.5	**0.9**	**0.93**	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	N/L	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	5	< 0.5 UJ	**0.17** J	**0.14** J	< 5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ
Trichlorofluoromethane	5	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	2	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes (total)	15	< 1	**0.54** J	**0.43** J	**287**	< 1	< 1	**1.04**	**0.99** J	< 1	< 1	< 1
Total Detected	--	9.73	55.26	44.3	1199.40	3.57	2.18	34.97	34.86	15.86	0.00	4.57
Total Detected TICS	--	2.89	100.25	66.32	88.5	1.6	14.51	127.28	128.69	64.31	0	0
Total	--	12.62	155.51	110.62	1287.9	5.17	16.69	162.25	163.55	80.17	0	4.57

Notes:

1. Results expressed in micrograms per liter (µg/L) = parts per billion (ppb).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1
4. Results in BOLD type indicate detected concentrations of parameter analyzed.
5. SHADING indicates results above the Groundwater Standard.
6. N/A = Not Available.

Table 12
Summary of Off-Site and Property Boundary Groundwater Sample Analysis
TCL-SVOCs
700 Outparcel, LLC Syracuse, NY

Parameter	Groundwater Standard	CMW-1	CMW-1FD	MW-2	CMW-2	MW-3	MW-4	MW-4 FD	MW-5	MW-6	MW-7
EPA 8270 C		3/4/2009	3/4/2009	2/27/2009	3/4/2009	2/27/2009	1/19/2012	1/19/2012	1/19/2012	1/19/2012	1/19/2012
1,1'-Biphenyl	5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2,4,5-Trichlorophenol	2*	< 53	< 53	< 51	< 53	< 50	< 51	< 50	< 51	< 51	< 51
2,4,6-Trichlorophenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dichlorophenol	0.30	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dimethylphenol	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrophenol	10	< 53	< 53	< 51 U	< 53	< 50 U	< 51	< 50	< 51	< 51	< 51
2,4-Dinitrotoluene	5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2,6-Dinitrotoluene	5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	10	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorophenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	N/L	< 11	< 11	**1.5** J	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylphenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
2-Nitroaniline	5	< 53	< 53	< 51	< 53	< 50	< 51	< 50	< 51	< 51	< 51
2-Nitrophenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-Dichlorobenzidine	5	< 21	< 21	< 20 UJ	< 21	< 20 UJ	< 20	< 20	< 20	< 20	< 20
3-Nitroaniline	5	< 53	< 53	< 51	< 53	< 50	< 51	< 50	< 51	< 51	< 51
4,6-Dinitro-2-methylphenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl phenyl ether	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloro-3-methylphenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Chloroaniline	5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorophenyl phenyl ether	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Methylphenol	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitroaniline	5	< 53	< 53	< 51	< 53	< 50	< 51	< 50	< 51	< 51	< 51
4-Nitrophenol	N/L	< 53	< 53	< 51	< 53	< 50	< 51	< 50 U	< 51	< 51	< 51
Acenaphthene	20	< 11	< 11	< 10	< 11	< 10	**0.94** J	**0.93** J	< 10	< 10	< 10
Acenaphthylene	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Acetophenone	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10 U	< 10	< 10	< 10
Anthracene	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Atrazine	7.5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzaldehyde	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]anthracene	0.002	< 11 U	< 11 U	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[a]pyrene	MDL	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[b]fluoranthene	0.002	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[g,h,i]perylene	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Benzo[k]fluoranthene	0.002	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Chloroethoxy)methane	5.000	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-chloroethyl)ether	1	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-chloroisopropyl)ether	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	5	< 11 U	< 17 U	< 10	< 11	< 10	< 10 U	< 10	< 10 U	< 10	< 10 U
Butyl benzyl phthalate	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10 U	< 10	< 10
Caprolactam	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Carbazole	N/L	< 11	< 11	< 10	< 11	< 10	**5** J	**4.4** J	< 10	< 10	< 10
Chrysene	0.002	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-butyl phthalate	50	< 11 U	< 11 U	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-octyl phthalate	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Dibenz[a,h]anthracene	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	N/L	< 11	< 11	< 10	< 11	< 10	**0.62** J	**0.68** J	< 10	< 10	< 10
Diethyl phthalate	50	< 11	< 11	< 10 U	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Dimethyl phthalate	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	50	**3.3** J	**3.5** J	< 10	**2.8** J	< 10	**0.96** J	**0.88** J	**0.45** J	< 10	< 10
Fluorene	50	< 11	< 11	< 10	< 11	< 10	**0.89** J	**0.91** J	< 10	< 10	< 10
Hexachlorobenzene	0.04	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	0.5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorocyclopentadiene	5	< 11	< 11	< 10 U	< 11	< 10 U	< 51	< 50	< 51	< 51	< 51
Hexachloroethane	5	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Indeno[1,2,3-cd]pyrene	0.002	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Isophorone	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitroso-di-n-propylamine	N/L	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiphenylamine	50	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	10	< 11	< 11	**1.2** J	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Nitrobenzene	0.4	< 11	< 11	< 10 U	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorophenol	1	< 53	< 53	< 51	< 53	< 50	< 51	< 50	< 51	< 51	< 51
Phenanthrene	50	**2.9** J	**2.9** J	< 10	**2.9**	< 10	< 10	< 10	**0.67** J	< 10	< 10
Phenol	1	< 11	< 11	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	50	**2.4** J	**2.5** J	< 10	**2** J	< 10	**0.71** J	**0.6** J	< 10	< 10	< 10
Total Detected	--	8.6	8.9	2.7	7.7	0	19.12	68.4	21.12	0	0
Total Detected TICS	--	64.5	50.2	1005	0	0	72.6	19	31.8	0	4.2
Total	--	73.1	59.1	1007.7	7.7	0	91.72	87.4	52.92	0	4.2

Notes:

1. Results expressed in micrograms per liter (µg/L) = parts per billion (ppb).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1.
4. Results in BOLD type indicate detected concentrations of parameter analyzed.
5. SHADING indicates results above the Groundwater Standard.

Table 13
Summary of Off-Site and Property Boundary Groundwater Sample Analysis
Metals
700 Outparcel, LLC Syracuse, NY

Parameter	Groundwater Standard	CMW-1	CMW-1FD	MW-2	CMW-2	MW-3	MW-4	MW-4 FD	MW-5	MW-6	MW-7
EPA 6010B		3/4/2009	3/4/2009	2/27/2009	3/4/2009	2/27/2009	1/19/2012	1/19/2012	1/19/2012	1/19/2012	1/19/2012
Aluminum	N/L	**46** J	**22** J	**45**	**10** J	**8.9**	**0.2** J	**0.32** J	**1.5** J	**0.4** J	< 0.01 UJ
Antimony	0.003	**0.0039** J	< 0.06	**0.0033** J	< 0.06	< 0.06 UJ	< 0.01	< 0.01	< 0.01	**0.006** J	< 0.01
Arsenic	0.025	**0.029**	**0.02**	**0.033**	**0.0053** J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium	1.0	**5.7**	**4.9**	**2.5**	**0.41**	**2.1**	**0.53**	**0.56**	**0.19**	**0.1**	**0.41**
Beryllium	0.003	**0.0017** J	**0.0008** J	**0.0028** J	**0.0004** J	**0.0003** J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0050	< 0.01	< 0.01	**0.0011** J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Calcium	N/L	**610**	**460**	**430**	**160**	**500**	**120**	**130**	**140**	**91**	**240**
Chromium	0.05	**0.077** J	**0.041** J	**0.095**	**0.022** J	**0.017**	**0.0053** J	**0.0041** J	**0.0069** J	**0.0062** J	**0.0046** J
Cobalt	0.005	**0.03** J	**0.013** J	**0.026** J	< 0.05	< 0.05	**0.0062** J	**0.0046** J	**0.0051** J	**0.0049** J	**0.0053** J
Copper	0.2	**0.16** J	**0.066** J	**0.14**	**0.027** J	**0.027**	< 0.01	< 0.01	**0.0046** J	**0.0053** J	< 0.01
Iron	0.3	**84** J	**45** J	**97** J	**18** J	**16** J	**0.67**	**0.77**	**1.9**	**0.46**	**0.072**
Lead	0.025	**0.056** J	**0.032** J	**0.064**	**0.016** J	**0.011**	**0.0044** J	**0.0053** J	**0.0048** J	< 0.01 UJ	< 0.01 UJ
Magnesium	35	**230**	**150**	**150**	**57**	**100**	**18**	**19**	**18**	**12**	**82**
Manganese	0.3	**2**	**1.2**	**1.5**	**0.46**	**0.83**	**0.19**	**0.2**	**0.11**	**0.0082** J	**0.11**
Nickel	0.1	**0.1**	**0.055**	**0.086**	**0.022** J	**0.013** J	< 0.01	< 0.01	**0.0041** J	**0.0021** J	**0.0035** J
Potassium	N/L	**24** J	**19** J	**29**	**14** J	**13**	**6.2** J	**6.8** J	**9.5** J	**8.3** J	**51** J
Selenium	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sodium	20	**1500**	**1600**	**1200**	**1100**	**980**	**59**	**72**	**620**	**480**	**1000**
Thallium	0.0005	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.01** J	< 0.02 UJ	< 0.02 UJ	< 0.02 UJ	< 0.02 UJ
Vanadium	N/L	**0.081**	**0.041** J	**0.079**	**0.021** J	**0.017** J	< 0.01	< 0.01	**0.0043** J	< 0.01	< 0.01
Zinc	0.20	**0.22** J	**0.1** J	**0.24**	**0.048** J	**0.029**	< 0.02	< 0.02	**0.01** J	**0.016** J	< 0.02
EPA 7470A											
Mercury	0.0007	**0.00016** J	**0.000091** J	**0.00018** J	**0.000056** J	<0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
E335.4											
Total Cyanide	0.200	< 0.01	< 0.01	N/A	< 0.01	N/A	< 0.01	< 0.01	**0.0053** J	**0.0058** J	< 0.01

Notes:

1. Results expressed in micrograms per liter (mg/L).
2. Groundwater Standard Source: NYSDEC "Technical and Operational Guidance Series " (TOGS) 1.1.1
3. N/L = Parameter Not Listed in NYSDEC TOGS 1.1.1..
4. N/S = Parameter Listed in NYSDEC TOGS 1.1.1., but Groundwater Standard Not Specified.
5. Results in BOLD type indicate detected concentrations of parameter analyzed.
6. SHADING indicates results above the Groundwater Standard.

Table 14
Summary of TPH Sample Analysis Data
700 Outparcel, LLC Syracuse, NY

Parameter	WSV-1 (4)	WSV-2 (8)	WSU2-2 (10)	WSU3-1	WSU3-2	SB-1 (12-14)	SB-2 (8-12)	SB-3 (8-12)	MW-1 (16-20)	MW-2 (8-12)	MW-3 (8-12)	CMW-1 (12-16)	CMW-2 Composite	CSB-4 Composite	TP-1 (9-10)	TP-1 FD (9-10)	TP-7 (11-12)	TP-10 (11-13.5)	MW-4 (8-12)	MW-5 (8-12)
NYSDOH 310.13	9/4/2008	9/4/2008	9/18/2008	9/26/2008	9/29/2008	2/26/2009	2/26/2009	2/27/2009	2/26/2009	2/26/2009	2/26/2009	3/2/2009	3/2/2009	3/2/2009	8/24/2011	8/24/2011	8/23/2011	8/23/2011	1/17/2012	1/13/2012
Fuel oil #2	<20.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<4.0	<4.0
Gasoline	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	<18.0	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Kerosene	<20.0	<10.0	<10.0	<10.0	<20.0	**(1)**	<10.0	<10.0	<10.0	<10.0	<10.0	<18.0	<10.0	<10.0	<5.0	<5.0	**5.6***	**3.3* J**	<4.0	<4.0
Lubricating oil	Not Present	Not Present	Not Present	Not Present	**PRESENT**	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	<90.0	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Mineral sprits	N/A	N/A	N/A	N/A	**(2)**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<3.6	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	**110**	**10 J**
Naphtha	N/A	N/A	N/A	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	<21.0	<19.0
Diesel fuel	N/A	N/A	N/A	N/A	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<18.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<21.0	<19.0
JP8 jet fuel	N/A	N/A	N/A	N/A	Not Present	**(1)**	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	<10.0	<10.0	Not Present	Not Present	Not Present	Not Present	<21.0	<19.0
Turpentine	N/A	N/A	N/A	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	<21.0	<19.0
Transformer oil	N/A	N/A	N/A	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Mineral oil	N/A	N/A	N/A	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Hydraulic oil	N/A	N/A	N/A	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	N/A	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Fuel oil #4	N/A	N/A	N/A	N/A	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<21.0	<19.0
Fuel oil #6	N/A	N/A	N/A	N/A	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<18.0 UJ	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<21.0	<19.0
DRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**21**	**25**	**7.1**	N/A	N/A	N/A

Notes:

1. Results expressed in milligrams per kilogram (mg/kg) = parts per million (ppm).
2. Results in BOLD type indicate detected concentrations of parameter analyzed.

(1) = A degraded pattern is present that may have started as Kerosene or JP8 Jet fuel
(2) = A pattern resembling Mineral Spirits is present at an estimated amount of 200 ppm
(*) = Analyte appears to be biologically degrated and/or environmentally weathered.

FIGURES

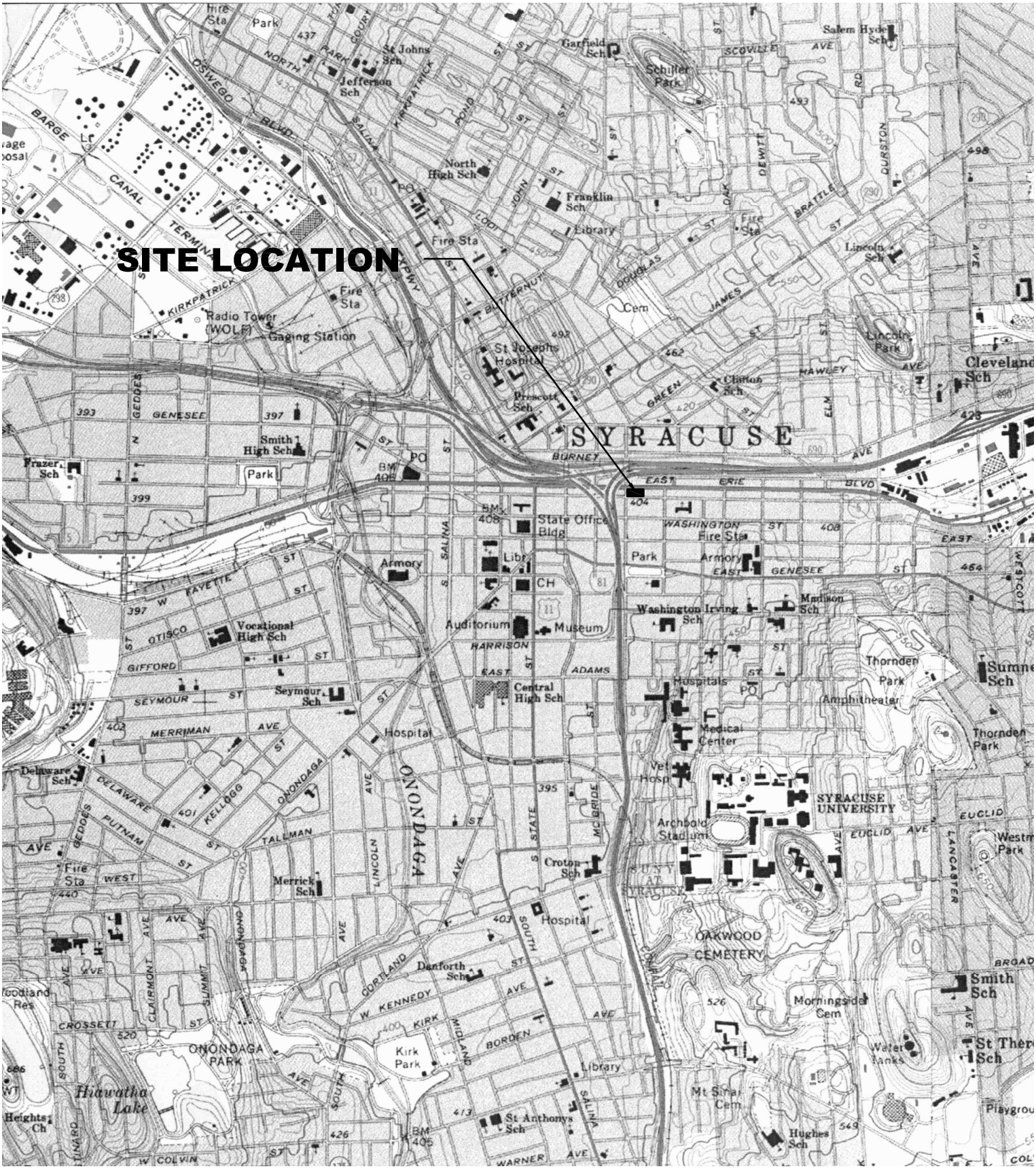


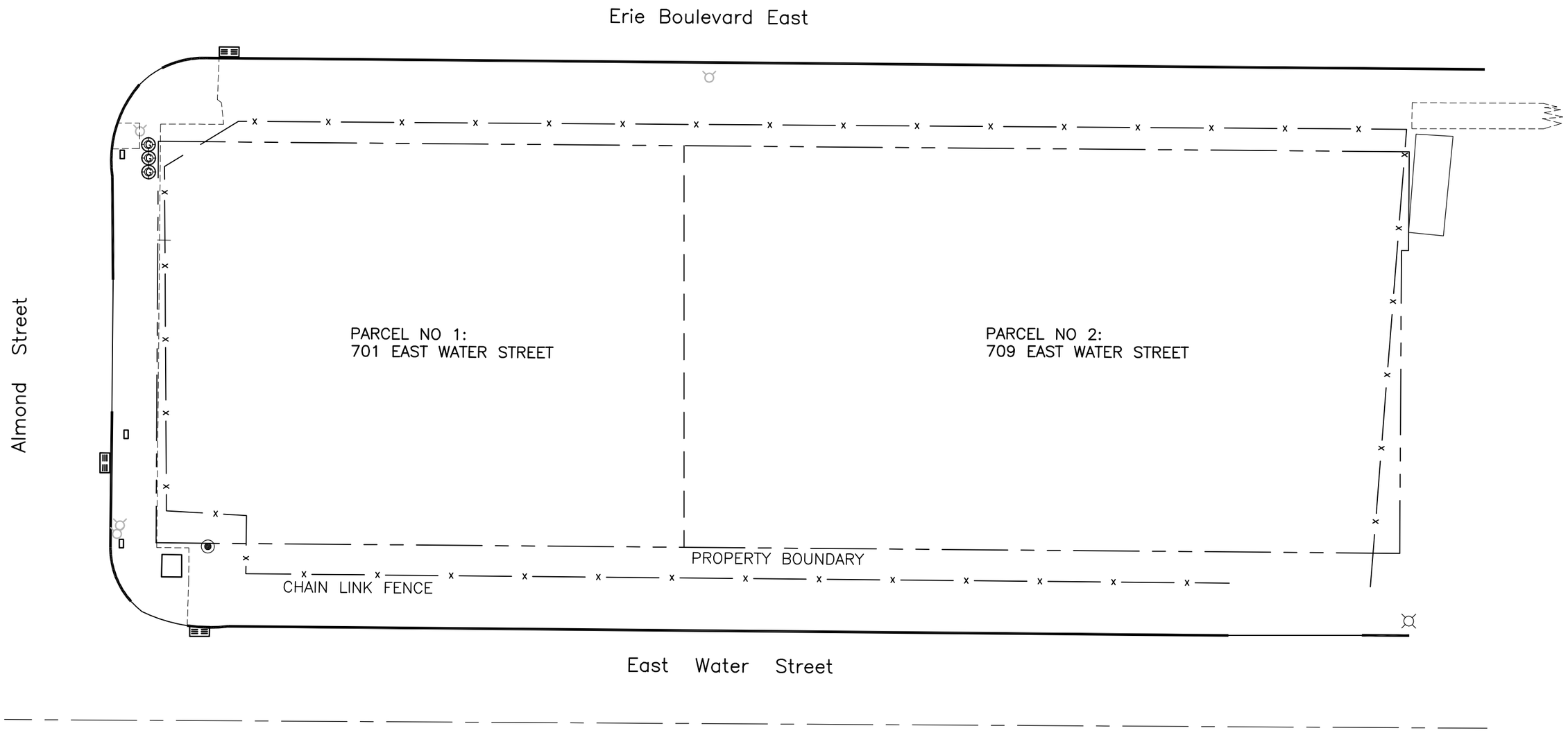
FIGURE 1 - LOCATION PLAN

700 Out Parcel, LLC
701–709 East Water Street
Syracuse, New York

Remedial Investigation Report

Scale: 1" = 2,000'

08921.100



20 0 20 40

SCALE: 1''=20'

FIGURE-2 - SITE PLAN

700 Out Parcel, LLC
701–709 East Water Street
Syracuse, New York

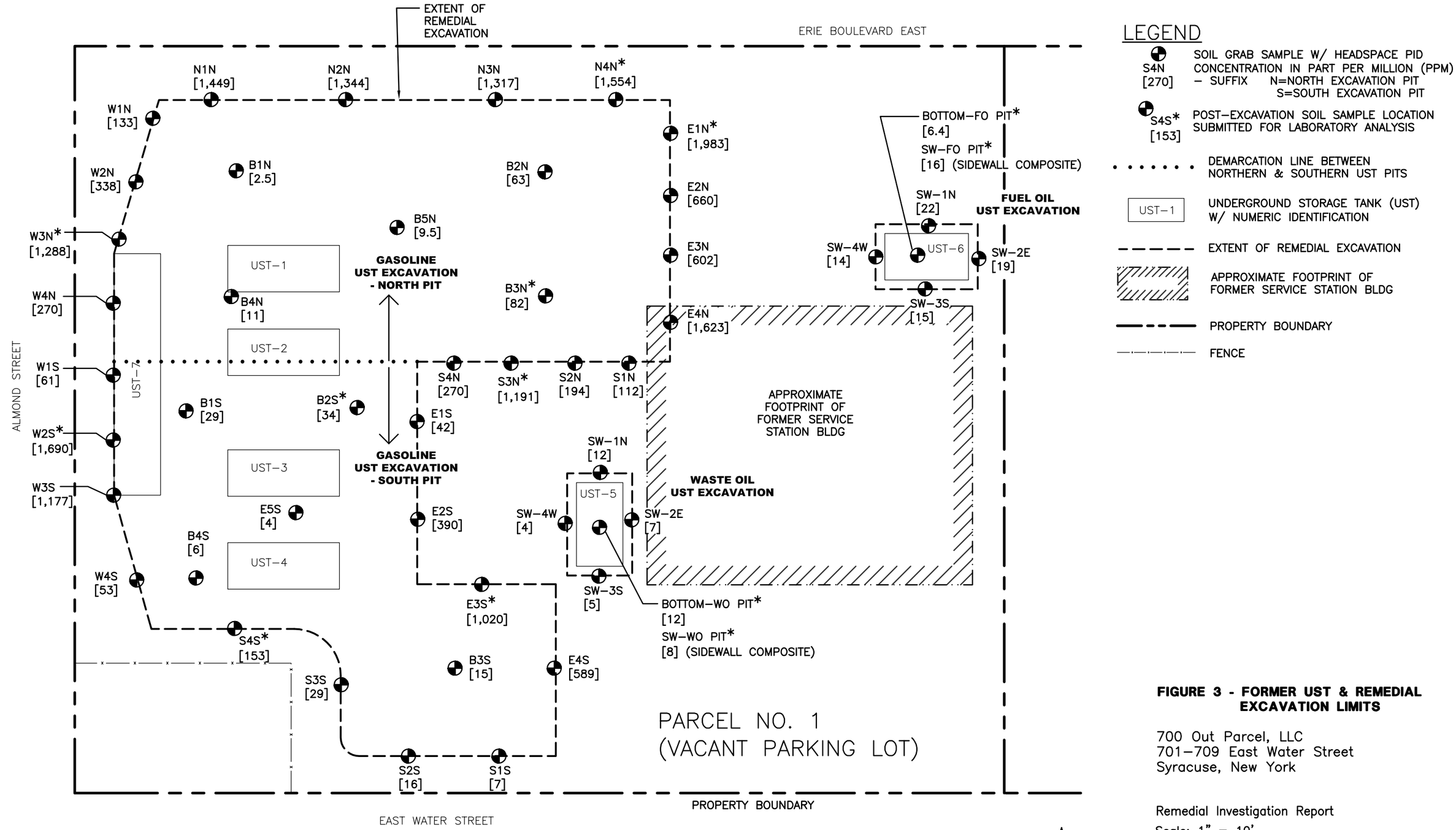
Remedial Investigation Report

Scale: 1" = 20'

Notes:

1. Figure prepared to show general arrangement of property for remedial investigation report. Do not use for any other purpose.

08921.100



LEGEND

- S4N [270] — SOIL GRAB SAMPLE W/ HEADSPACE PID CONCENTRATION IN PART PER MILLION (PPM) – SUFFIX N=NORTH EXCAVATION PIT S=SOUTH EXCAVATION PIT
- S4S* [153] — POST-EXCAVATION SOIL SAMPLE LOCATION SUBMITTED FOR LABORATORY ANALYSIS
- DEMARCATION LINE BETWEEN NORTHERN & SOUTHERN UST PITS
- UST-1 — UNDERGROUND STORAGE TANK (UST) W/ NUMERIC IDENTIFICATION
- EXTENT OF REMEDIAL EXCAVATION
- APPROXIMATE FOOTPRINT OF FORMER SERVICE STATION BLDG
- PROPERTY BOUNDARY
- FENCE

FIGURE 3 - FORMER UST & REMEDIAL EXCAVATION LIMITS

700 Out Parcel, LLC
701-709 East Water Street
Syracuse, New York

Remedial Investigation Report

Scale: 1" = 10'

Notes:

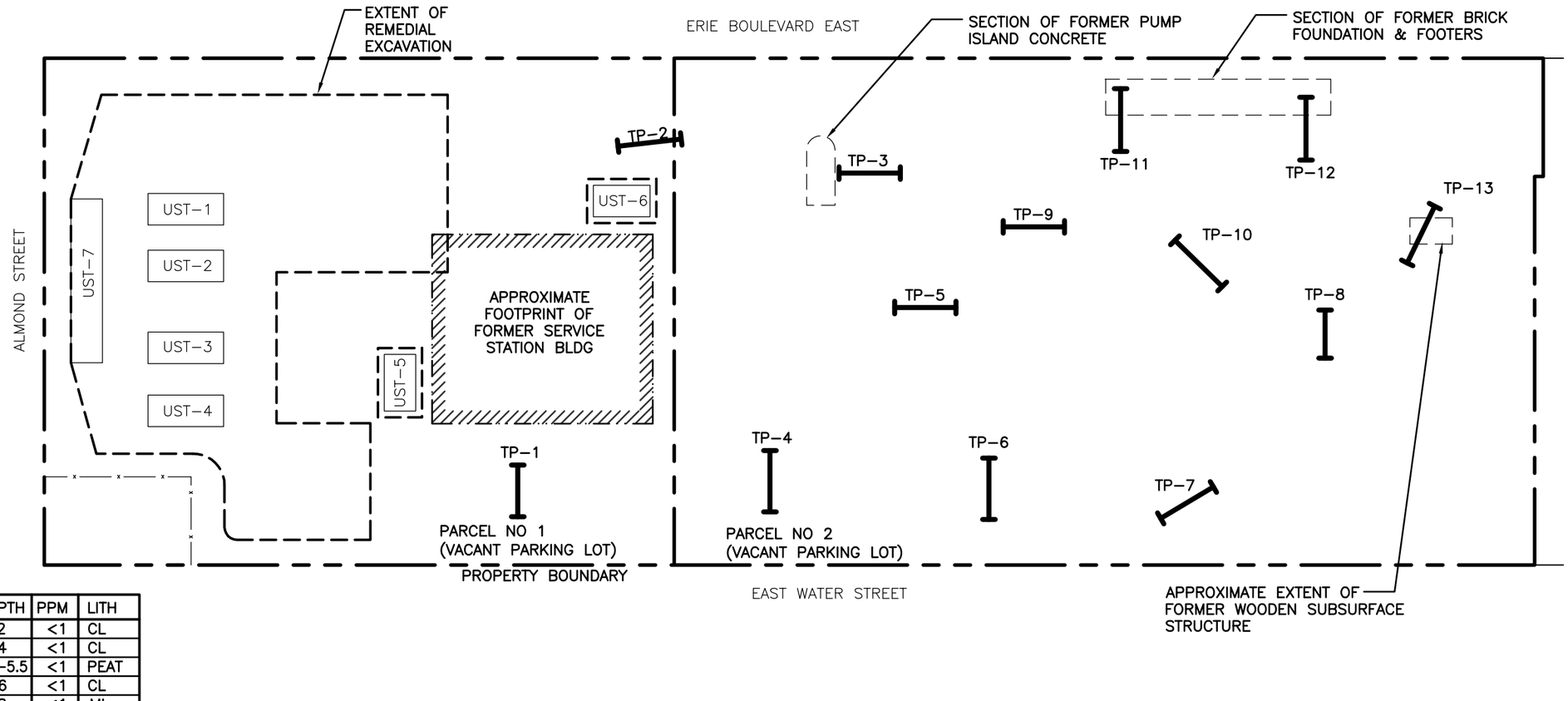
1. Figure prepared to show general arrangement of property for Remedial Investigation Report. Do not use for any other purpose.

08921.100

TEST PIT SCHEDULE

TEST PIT	DEPTH	PPM	LITH
TP-1	2	6	GC
	5	7	ML
	9.5	237	ML
	11	1,439	GP
	12	85	ML
	13	44	ML
	14.5	41	ML
TP-2	3	3.5	GC
	5	2.8	PEAT
	9.5	2.5	ML/CL
	10.5	193	GP
	12.7	1,732	GP
	14	70	ML
	16	1.8	GC
TP-3	2.5	1.4	GC
	4.5	26	PEAT
	7	5	ML/CL
	9	3.2	ML/CL
	12.5	11.2	GP
	14.5	1.0	GC
TP-4	3	1.5	GC
	5	1.8	ML
	7	1.5	ML
	10.5	32	GP
	12.5	1,970	GP
	14	79	ML
	16	39	GC
TP-5	3.5	1.9	GC
	6	39	ML
	11	42	GP
	13	49	GP
	14.5	15	ML
	15	1.5	GC
TP-6	2.5	4	GC
	7	4.2	ML/CL
	10	3	ML/CL
	12	350	GP
	14	4.5	ML
	16	4.4	GC
TP-7	2	<1	SM
	4	<1	CL
	6	<1	ML
	8	<1	ML
	10	<1	ML
	12	4.5	GP
	13	1.5	ML
	15	<1	GC
TP-8	2	<1	GC
	4	<1	PEAT
	6	<1	ML
	8	<1	CL
	10	<1	ML
	12	<1	GP
	14	<1	ML
	15.5	<1	GC
TP-9	2	4	CL
	4	2	CL
	4.5-5.5	24	PEAT
	6	5	CL
	8	73	ML
	10	1,530	SP
	12	367	GP
	14	3	GC
	15.5	3	GC

TEST PIT	DEPTH	PPM	LITH
TP-10	2	<1	CL
	4	<1	CL
	4.5-5.5	<1	PEAT
	6	<1	CL
	8	<1	ML
	10	<1	ML
	12	17	GP
	13.5	19	GP
	14	1.5	GC
	15.5	<1	GC
TP-11	2	<1	GC
	4	<1	ML
	6	<1	ML
	8	3.5	ML
	10	2,000+	GP
	12	1,594	GP
	14	5	ML
	15.5	4.5	GC
TP-12	2	<1	GC
	4	2.7	PEAT
	6	4.3	PEAT
	8	<1	CL
	10	4.9	ML
	12	93	GP
	13	18	GP
	15	<1	GC
TP-13	2	<1	CL
	4	<1	ML
	6	<1	ML
	7	<1	ML
	8	<1	CL
	10	1.5	SP
	12	<1	SP
	14	<1	GC



LEGEND

UST-3 — LOCATION OF FORMER UNDERGROUND STORAGE TANK REMOVED AS PART OF THIS INVESTIGATION W/ NUMERIC IDENTIFICATION.

TP-6 — TEST PIT TRENCH LOCATION & ORIENTATION W/ NUMERIC IDENTIFICATION

TEST PIT | DEPTH | PPM | LITH — TEST PIT SCHEDULE DATA BOX

- LITH: SOIL LITHOLOGIC DESIGNATION USING THE UNIFIED SOIL CLASSIFICATION SYSTEM
- PPM: TOTAL VOC HEADSPACE SOIL CONCENTRATION IN PARTS PER MILLION (PPM)
- DEPTH: SOIL SAMPLE COLLECTION DEPTH IN FEET BELOW GROUND SURFACE
- TEST PIT: TEST PIT NUMERIC IDENTIFICATION

20 0 20 40

SCALE: 1''=20'

FIGURE 4 - PRIOR TEST PIT LOCATIONS & RESULTS OF SOIL SAMPLE HEADSPACE ANALYSES

700 Out Parcel, LLC
701-709 East Water Street
Syracuse, New York

Remedial Investigation Report

Scale: 1" = 20'

Notes:

1. Figure prepared to show general arrangement of property for Remedial Investigation Report. Do not use for any other purpose.

08921.100

Almond Street

East Water Street

MW–5

MW–6

MW–4

MW–7

MW–8

MW–9

PROPERTY BOUNDARY

CHAIN LINK FENCE

FIRE HYDRANT
NORTH BONNET RIM
BM EL 100.00

GROUNDWATER
EL 88.15'
MW–3

GROUNDWATER
EL 85.98'
MW–2

MW–1 EL 83.76'

GROUNDWATER
EL 86.49'
CMW–2

GROUNDWATER
EL 84.43'
CMW–1

GROUNDWATER
EL 83.38'
CSB/CMW–3

88

87

86

85

84

LEGEND

GROUNDWATER CONTOURS

DIRECTION OF GROUNDWATER FLOW BASED ON MARCH 4, 2009 WATER LEVEL READINGS

MONITORING WELL

20 0 20 40

SCALE: 1''=20'

08921.100

FIGURE 5 - 2009 GROUNDWATER CONTOUR PLAN

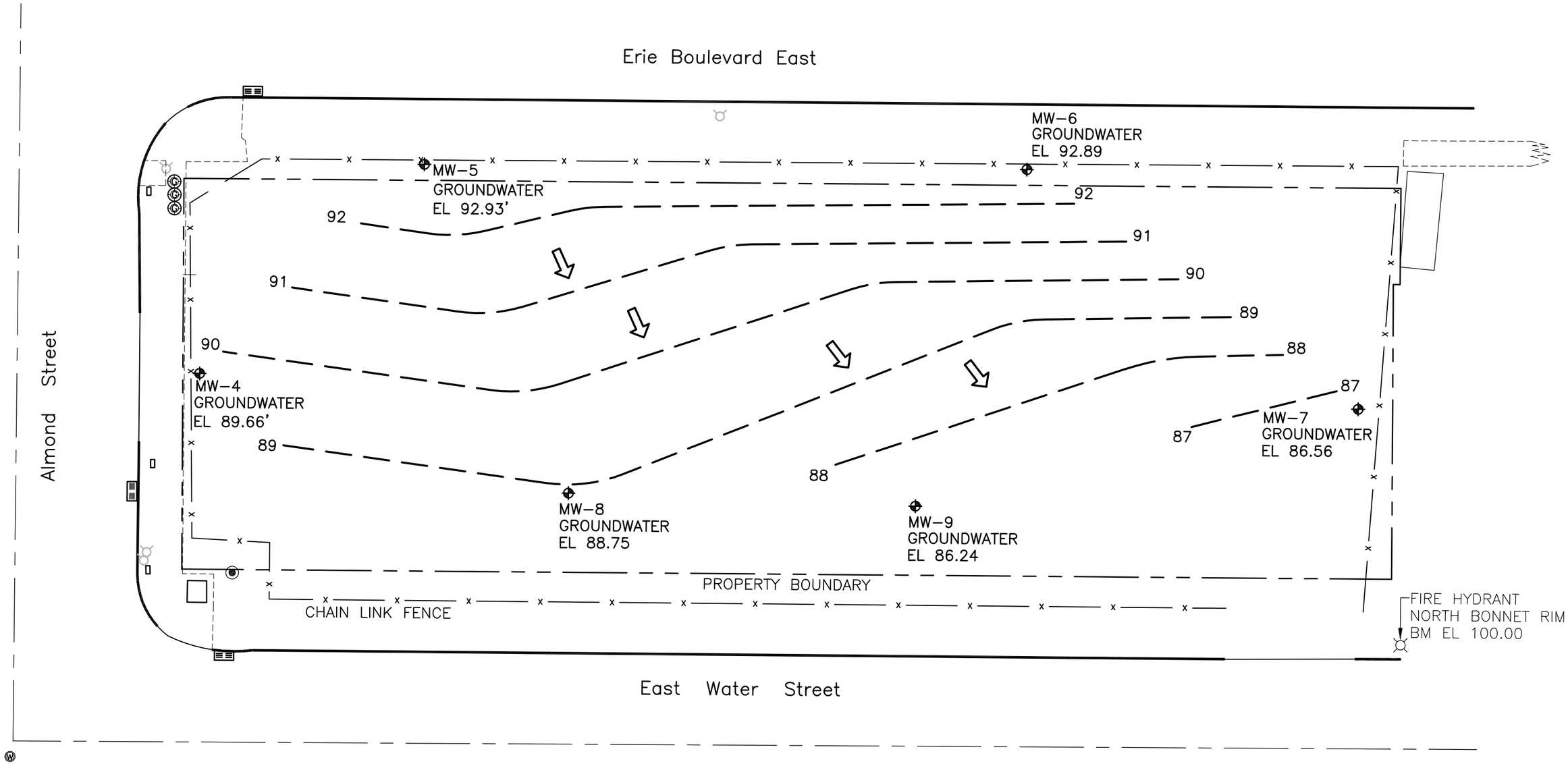
700 Out Parcel, LLC
701–709 East Water Street
Syracuse, New York

Remedial Investigation Report

Scale: 1" = 20'

Notes:

1. Figure prepared to show general arrangement of property for Remedial Investigation Report. Do not use for any other purpose.



LEGEND

- GROUNDWATER CONTOURS
- DIRECTION OF GROUNDWATER FLOW BASED ON JANUARY 19, 2012 WATER LEVEL READINGS
- MONITORING WELL

20 0 20 40

SCALE: 1''=20'

08921.100

FIGURE 6 - 2012 GROUNDWATER CONTOUR PLAN

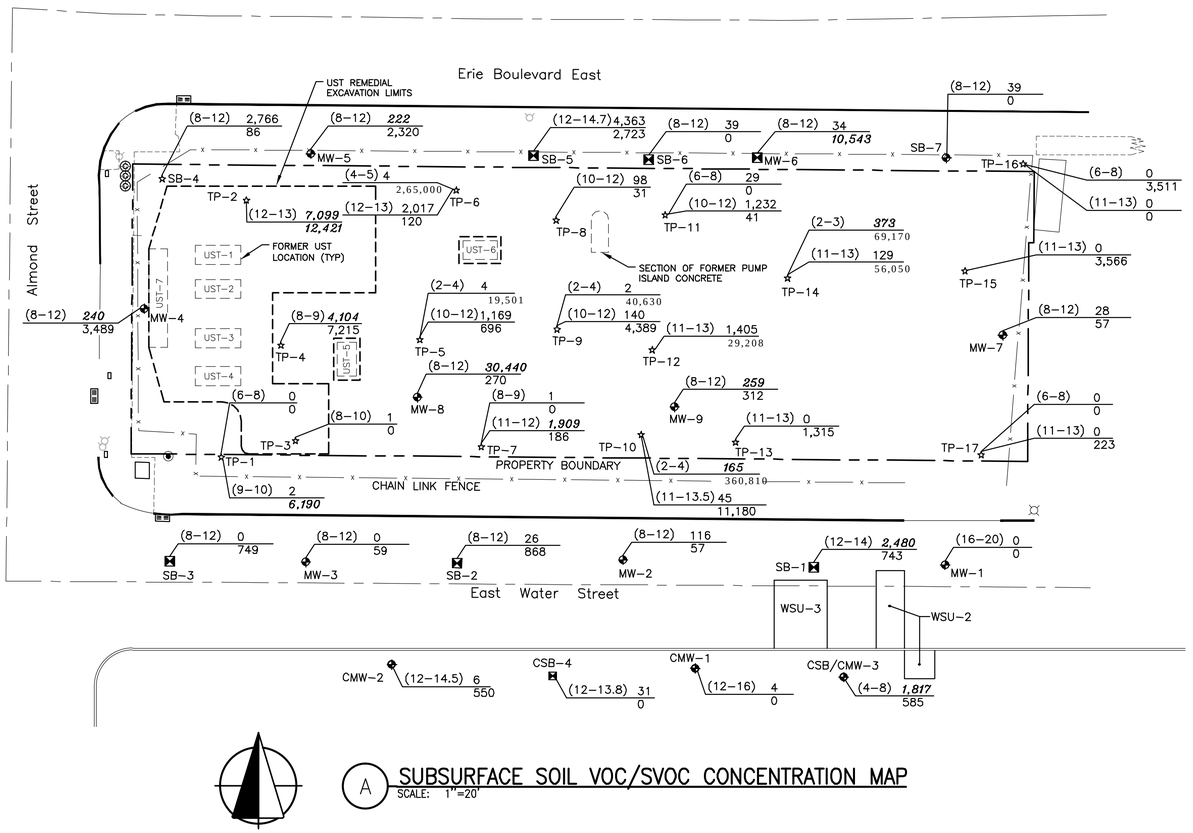
700 Out Parcel, LLC
701–709 East Water Street
Syracuse, New York

Remedial Investigation Report

Scale: 1" = 20'

Notes:

1. Figure prepared to show general arrangement of property for Remedial Investigation Report. Do not use for any other purpose.



A SUBSURFACE SOIL VOC/SVOC CONCENTRATION MAP
SCALE: 1"=20'

LEGEND

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
☆ TP-# – TEST PIT LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
■ SB-# – SOIL BORING LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
◆ MW-# – MONITORING WELL LOCATION

NOTE:

1. ***ITALICS FONT*** INDICATES A PARAMETER(S) WAS DETECTED ABOVE UNRESTRICTED USE SOIL CLEANUP OBJECTIVES.
2. **BOLD FONT** INDICATES A PARAMETER(S) WAS DETECTED ABOVE COMMERCIAL USE SOIL CLEANUP OBJECTIVES.
3. TEST PIT, SOIL BORING, AND MONITORING WELL LOCATIONS ARE BASED ON OCTOBER 17, 2012 SURVEY CONDUCTED BY R.J. LIGHTON SR. – LAND SURVEYING.
4. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.

SOIL SAMPLE ANALYTICAL DATA SUMMARY OF TOTAL PETROLEUM HYDROCARBON DETECTED PARAMETERS

Sample ID and Depth (ft)	Detected Parameter
WSU3-2 (4)	Lubricating oil and a pattern resembling mineral spirits
SB-1 (12-14)	A degraded pattern is present that may have started as Kerosene or JP8 Jet fuel
TP-1 (9-10)	Diesel range organics
TP-1 (9-10) FD	Diesel range organics
TP-7 (11-12)	Diesel range organics and kerosene (parameter appears to be biologically degraded and/or environmentally weathered)
TP-10 (11-13.5)	Kerosene (parameter appears to be biologically degraded and/or environmentally weathered)
MW-4 (8-12)	Mineral spirits
MW-5 (8-12)	Mineral spirits

2 SCHEDULE : TPH

SOIL SAMPLE ANALYTICAL DATA SUMMARY OF ORGANIC COMPOUNDS DETECTED IN EXCESS OF CNYCRR 375-6 SOIL CLEANUP OBJECTIVES

Sample ID and Depth (ft)	PID Headspace Analysis (ppm)	Parameter	Unrestricted SCO (ug/kg)	Commercial SCO (ug/kg)	Detected Concentration (ug/kg)
TP-1 (9-10)	0.0	Benzo(k)fluoranthene	800	56,000	2,400
TP-1 (9-10) FD	0.0	Benzo(k)fluoranthene	800	56,000	2,600
TP-2 (12-13)	341	Xylene (total)	260	500,000	430
		Benzo(a)anthracene	1,000	5,600	1,000
TP-3 (8-10)	50.8	No Exceedances			
TP-4 (8-9)	2420	Xylene (total)	260	500,000	540
TP-4 (8-9) FD	2420	Xylene (total)	260	500,000	460
TP-5 (2-4)	0.0	Benzo(a)anthracene	1,000	5,600	1,600
		Benzo(a)pyrene	1,000	1,000	1,300
		Benzo(b)fluoranthene	1,000	5,600	1,700
		Chrysene	1,000	56,000	1,500
		Dibenz(a,h)anthracene	330	560	460
TP-5 (10-12)	1111	No Exceedances			
TP-6 (4-5)	0.0	Acenaphthene	20,000	500,000	30,000
		Benzo(a)anthracene	1,000	5,600	210,000
		Benzo(a)pyrene	1,000	1,000	180,000
		Benzo(b)fluoranthene	1,000	5,600	250,000
		Benzo(g,h,i)perylene	100,000	500,000	110,000
		Benzo(k)fluoranthene	800	56,000	76,000
		Chrysene	1,000	56,000	210,000
		Fluoranthene	100,000	500,000	430,000
		Fluorene	30,000	500,000	34,000
		Indeno(1,2,3-cd)pyrene	500	5,600	70,000
		Naphthalene	12,000	500,000	16,000
		Phenanthrene	100,000	500,000	430,000
		Pyrene	100,000	500,000	440,000
TP-6 (12-13)	2789	No Exceedances	--	--	--
TP-7 (8-9)	0.0	No Exceedances	--	--	--
TP-7 (11-12)	779	Xylene (total)	260	500,000	280
TP-8 (10-12)	185	No Exceedances	--	--	--
TP-9 (2-4)	0.0	Benzo(a)anthracene	1,000	5,600	2,900
		Benzo(a)pyrene	1,000	1,000	4,000
		Benzo(b)fluoranthene	1,000	5,600	5,200
		Benzo(k)fluoranthene	800	56,000	1,700
		Chrysene	1,000	56,000	2,900
		Indeno(1,2,3-cd)pyrene	500	5,600	1,500
TP-9 (10-12)	284	No Exceedances	--	--	--
TP-10 (2-4)	0.0	Acetone	50	500,000	160
		Benzo(a)anthracene	1,000	5,600	31,000
		Benzo(a)pyrene	1,000	1,000	26,000
		Benzo(b)fluoranthene	1,000	5,600	31,000
		Benzo(k)fluoranthene	800	56,000	12,000
		Chrysene	1,000	56,000	28,000
		Dibenz(a,h)anthracene	330	560	2,800
		Indeno(1,2,3-cd)pyrene	500	5,600	8,400
TP-10 (11-13.5)	248	No Exceedances	--	--	--
TP-11 (6-8)	27.8	No Exceedances	--	--	--
TP-11 (10-12)	805	No Exceedances	--	--	--
TP-12 (11-13)	983	Benzo(a)anthracene	1,000	5,600	2,400
		Benzo(a)pyrene	1,000	1,000	2,500
		Benzo(b)fluoranthene	1,000	5,600	3,100
		Benzo(k)fluoranthene	800	56,000	1,300
		Chrysene	1,000	56,000	2,200
		Dibenz(a,h)anthracene	330	560	800
		Indeno(1,2,3-cd)pyrene	500	5,600	740
TP-13 (11-13)	8.3	No Exceedances	--	--	--
TP-14 (2-3)	10.2	Acetone	50	500,000	330
		Benzo(a)anthracene	1,000	5,600	4,700
		Benzo(a)pyrene	1,000	1,000	5,600
		Benzo(b)fluoranthene	1,000	5,600	7,900
		Benzo(k)fluoranthene	800	56,000	1,800
		Chrysene	1,000	56,000	4,200
		Indeno(1,2,3-cd)pyrene	500	5,600	1,400
TP-14 (11-13)	107	Benzo(a)anthracene	1,000	5,600	3,700
		Benzo(a)pyrene	1,000	1,000	4,700
		Benzo(b)fluoranthene	1,000	5,600	6,700
		Benzo(k)fluoranthene	800	56,000	1,600
		Chrysene	1,000	56,000	3,400
		Indeno(1,2,3-cd)pyrene	500	5,600	1,300
TP-15 (11-13)	0.0	No Exceedances	--	--	--
TP-16 (6-8)	0.0	No Exceedances	--	--	--
TP-16 (11-13)	0.0	No Exceedances	--	--	--
TP-17 (6-8)	0.0	No Exceedances	--	--	--
TP-17 (11-13)	0.0	No Exceedances	--	--	--
MW-1 (16-20)	0.6	No Exceedances	--	--	--
SB-1 (12-14)	2444	Xylenes (total)	260	500,000	290
CMW-1 (12-16)	1798	No Exceedances	--	--	--
MW-2 (8-12)	1098	No Exceedances	--	--	--
SB-2 (8-12)	429	No Exceedances	--	--	--
CMW-2 (12-14.5)	0.1	No Exceedances	--	--	--
MW-3 (8-12)	58.1	No Exceedances	--	--	--
SB-3 (8-12)	59.4	No Exceedances	--	--	--
CSB/CMW-3 (4-8)	480	Xylenes (total)	260	500,000	420
CSB-4 (12-13.8)	0.0	No Exceedances	--	--	--
MW-4 (4-8)	1012	Acetone	50	500,000	120
SB-4 (8-12)	839	No Exceedances	--	--	--
MW-5 (8-12)	1360	No Exceedances	--	--	--
MW-5 (8-12) FD	1360	Acetone	50	500,000	55
SB-5 (12-14.7)	1300	No Exceedances	--	--	--
MW-6 (8-12)	12.5	Benzo(b)fluoranthene	1,000	5,600	5,600
SB-6 (8-12)	52.4	No Exceedances	--	--	--
MW-7 (8-12)	0.0	No Exceedances	--	--	--
SB-7 (8-12)	5.5	No Exceedances	--	--	--
MW-8 (8-12)	1298	1,2,4-Trimethylbenzene	3,600	190,000	12,000
		Xylene (total)	260	500,000	2,500
MW-9 (8-12)	1.4	Acetone	50	500,000	73

1 SCHEDULE : VOC/SVOC

SCALE: 1"=20'

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NO	REVISION DESCRIPTION	BY	DATE
0	ISSUED TO BIDDERS	--	--
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REMEDIAL INVESTIGATION REPORT
NYSDEC BROWNFIELD SITE NO. C734111
700 OUT PARCEL, LLC
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

SUBSURFACE SOIL VOC/SVOC CONCENTRATION MAP

Project Number: 08921.100	Designed By: DEP
Drawn By: FJS	Reviewed By: CJL
Date: UNSTAMPED	

Drawing Number
FIG-7
of

FILE NAME: S:\PROJECTS\BDA\08921\DRAWINGS\PHASE-1(0)\FIGURE-7.DWG
BY: SANTON FRED
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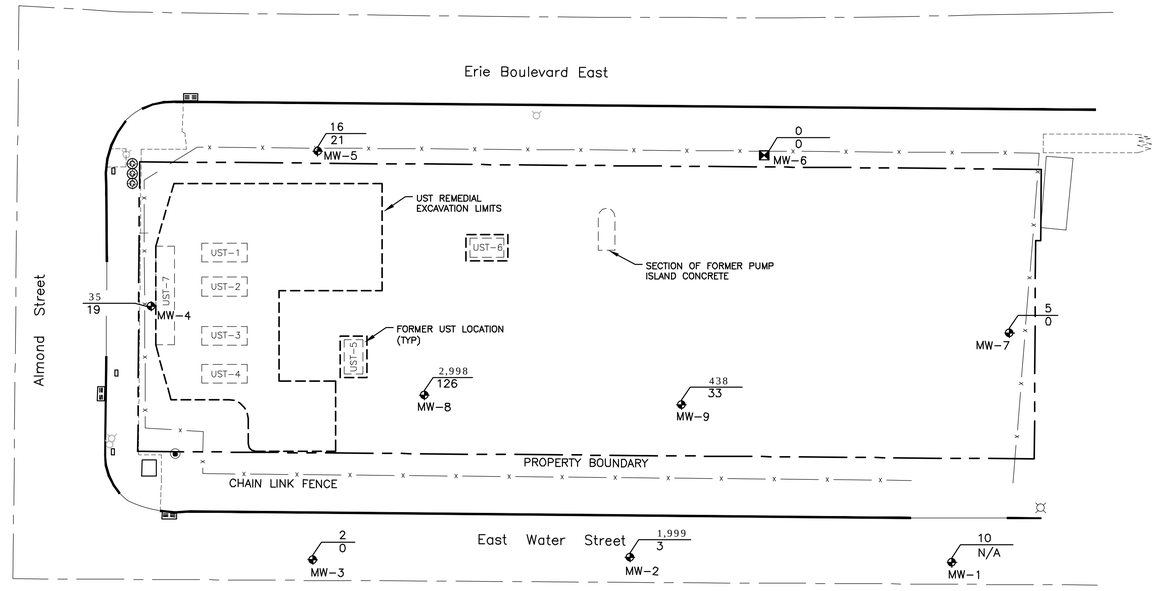

A GROUNDWATER VOC/SVOC CONCENTRATION MAP

SCALE: 1"=20'

LEGEND

TOTAL VOCs (ug/l)
TOTAL SVOCs (ug/l)
MW-# – MONITORING WELL LOCATION

NOTE:

1. BOLD FONT INDICATES A PARAMETER(S) WAS DETECTED ABOVE TOG 1.1.1 GROUNDWATER STANDARDS.
2. TEST PIT, SOIL BORING, AND MONITORING WELL LOCATIONS ARE BASED ON OCTOBER 17, 2012 SURVEY CONDUCTED BY R.J. LIGHTON SR. – LAND SURVEYING.
3. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.

GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY OF ORGANIC COMPOUNDS DETECTED IN EXCESS OF TOGS 1.1.1 GROUNDWATER STANDARDS

Sample Date	Sample ID	Parameter	TOGS 1.1.1 (ug/l)	Detected Concentration (ug/l)
2/27/2009	MW-1	No Exceedances	--	--
3/4/2009	CMW-1	Benzene	1	15.2
	CMW-1 FD	Benzene	1	14.3
2/27/2009	MW-2	Benzene	1	214
		Ethylbenzene	5	69.2
		Isopropylbenzene	5	75.8
		Toluene	5	35.9
		Xylene	15	287
3/4/2009	CMW-2	No Exceedances	--	--
2/27/2009	MW-3	No Exceedances	--	--
1/19/2012	MW-4	Isopropylbenzene	5	12.3
		n-Propylbenzene	5	11.4
	MW-4 FD	Isopropylbenzene	5	12.5
		n-Propylbenzene	5	11.4
	MW-5	No Exceedances	--	--
	MW-6	No Exceedances	--	--
	MW-7	No Exceedances	--	--
	MW-8	1,2,4-Trimethylbenzene	5	628
		1,3,5-Trimethylbenzene	5	176
		Benzene	1	49.4
		Ethylbenzene	5	404
		Isopropylbenzene	5	54
		n-Butylbenzene	5	11.6
		n-Propylbenzene	5	99.4
		Napthalene	10	111
		p-isopropyltoluene	5	5.6
		sec-Butylbenzene	5	8
		Toluene	5	109
		Xylene	15	689
	MW-9	Benzene	1	3.62
		Ethylbenzene	5	21.7
		Isopropylbenzene	5	25.6
		n-Butylbenzene	5	10.6
		n-Propylbenzene	5	49.7
		Napthalene	10	29.5
		p-isopropyltoluene	5	7.54
		sec-Butylbenzene	5	7.38
		Xylene	15	25.1

1 SCHEDULE : VOC/SVOC

20 0 20 40
SCALE: 1"=20'

BDA BEARDSLEY DESIGN ASSOCIATES
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NO	REVISION DESCRIPTION	BY	DATE
0	ISSUED TO BIDDERS	--	--
--	--	--	--

REMEDIAL INVESTIGATION REPORT
NYSDEC BROWNFIELD SITE NO. C734111
700 OUT PARCEL, LLC
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

GROUNDWATER VOC/SVOC CONCENTRATION MAP

Project Number: 08921.100	Designed By: DEP
Drawn By: FJS	Reviewed By: CJL
Date: UNSTAMPED	

Drawing Number
FIG-8
of

PLOTTED: 2/7/2013 1:11:10 PM BY: SANTON, FRED FILE NAME: S:\PROJECTS\BDA\08921\DRAWINGS\PHASE-10\FIGURE-8.DWG

ATTCHMENT A

Test Pit and Boring Logs

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: Southeast corner of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 24, 2011
Start: 11:30 AM
Finish: 12:15 PM

Test Pit No. TP-1
Sheet 1 of 1
Representative: DEP

Ground Water Observations

Date	Time	Depth
8/24		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0							Gravel backfill.
					0.0		
2.0							
					0.0		
4.0							
					0.0		
6.0	TP-1	6.0	8.0	6.0		0.0	Light brown mf sand and gravel backfill.
					0.0		
8.0							
	TP-1	9.0	10.0		43.5	0.0	Petroleum odor and slight staining.
10.0							
							Bottom of test pit at 10.0 feet bgs.

Notes: Excavation of test pit was stopped at 10 feet bgs due to backfill material falling into excavation.

BEARDSLEY DESIGN ASSOCIATES
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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: Northeast corner of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 22, 2011
Start: 9:00 AM
Finish: 10:15 PM

Test Pit No. TP-2
Sheet 1 of 1
Representative: DEP

Ground Water Observations

Date	Time	Depth
8/22	N/A	Approx. 12' bgs

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0							Gravel backfill and brown cm sand.
					0.0		
2.0							
					0.0		
4.0							
					0.0		
6.0							Light brown mf sand and gravel backfill.
					0.0		
8.0							
					0.0		Petroleum odor and slight staining.
10.0							
					0.0		
12.0	TP-2	12.0	13.0	12.0	146	341	Petroleum odor and slight staining.
13.0							Gray clay with some silt and gravel. Bottom of test pit at 13 feet bgs.

Notes:

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Southeast corner of site along boundary of UST excavation (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 22, 2011

Start: 10:30 AM Finish: 11:15 PM

Test Pit No. TP-3 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/22		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Topsoil/Gravel and dark brown cm sand.
					0.0		
2.0				2.0			Gravel and dark brown cm sand with some silt.
					43.7		
4.0							
					6.3		Petroleum staining and odor.
6.0							
					373		Petroleum staining and odor.
8.0	TP-3	8.0	10.0			50.8	
					813		Petroleum staining and odor.
10.0							
11.0					112		Petroleum staining and odor.
							Bottom of test pit at 11 feet bgs.

Notes: Excavation of test pit was stopped at 10 feet bgs due to backfill material falling into excavation.

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: East of former UST #5 (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 22, 2011
Start: 11:30 AM
Finish: 12:00 PM

Test Pit No. TP-4
Sheet 1 of 1
Representative: DEP

Ground Water Observations

Date	Time	Depth
8/22		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0							Gravel and dark brown cm sand.
					0.0		
2.0							
					0.0		
4.0				4.0			Black mf sand with some silt mixed and peat with bricks and debris.
					29.9		
6.0				6.0			Dark brown mf sand with some silt and little gray clay.
					269		
8.0	TP-4	8.0	9.0	8.0		2420	Brown mf sand with some silt. Petroleum staining and strong odor.
					2088		
10.0							
					491		
12.0							
					1752		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes: Uncovered concrete foundation at 2 feet bgs and moved test pit 8 feet to the west.

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Approximate footprint of former service station building (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 22, 2011

Start: 2:00 PM Finish: 3:15 PM

Test Pit No. TP-5 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/22		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel/Dark brown cmf sand with some silt and little gravel. Some black staining and slight petro odor.
					0.0		
2.0							
	TP-5	2.0	4.0		5.0	0.0	
4.0				4.0			Dark brown cmf sand with some silt and little clay.
					0.0		Petroleum staining.
6.0							
					3.2		
8.0				8.0			Dark brown cmf sand with some silt.
					34.4		
10.0				10.0			Dark brown mf sand with some silt. Petroleum odor.
	TP-5	10.0	12.0		2715	1111	
12.0							
					1377		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes: Uncovered one inch metal conduit at 2 feet bgs. A foundation was also present along the west test pit wall.

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Central portion of property along north boundary (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 22, 2011

Start: 3:15 PM Finish: 4:15 PM

Test Pit No. TP-6 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/22		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement and sub-base/Dark brown cmf sand with some silt.
					0.0		
2.0							
					0.0		
4.0				4.0			Black peat with some silt and little clay. Slight petroleum odor.
	TP-6	4.0	5.0	5.5	3.5	0.0	Dark brown cmf sand with some silt and little clay.
6.0							
				0.0			
8.0							
				9.5	107		Petroleum odor.
10.0							
					142		
12.0	TP-6	12.0-13.0		12.0	184	2789	Brown cmf sand with little gravel. Petroleum odor.
13.0							
							Bottom of test pit at 13.5 feet bgs.

Notes: Uncovered concrete at 4 feet bgs on north test pit sidewall.

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Central portion of property along south boundary (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 23, 2011

Start: 7:55 AM Finish: 8:50 PM

Test Pit No. TP-7 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23	N/A	Approx. 12.5' bgs

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Topsoil/Brown cmf sand with some silt.
					0.0		
2.0							
					0.0		
4.0				4.5			Light brown silt with some mf sand and little gray clay.
					0.0		
6.0							
					0.0		
8.0				8.5			Light brown silt with some gray clay and little mf sand. Petroleum odor.
	TP-7	8.0	9.0		365	0.0	
10.0				10.0			Brown mf sand and silt. Petroleum odor.
	TP-7	11.0	12.0	11.0	1216	779	Dark brown cmf sand with some gravel. Petroleum odor with minor staining.
12.0							
					2410		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes:

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Central portion of property near former pump island (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 23, 2011

Start: 9:05 AM Finish: 9:45 PM

Test Pit No. TP-8 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel fill/Brown mf sand with silt.
					0.0		
2.0							
				3.5	15.1		Dark brown/black peat.
4.0				4.0			Gray silt and f sand some clay.
					5.1		
6.0							
8.0				8.0			Brown mf sand with some silt. Petroleum odor.
					408		
10.0							
	TP-8	10.0	12.0		1608	185	
12.0				12.0			Dark brown cmf sand with little gravel.
13.0					380		
							Bottom of test pit at 13.0 feet bgs.

Notes:

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: Central portion of property (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 23, 2011
Start: 10:00 AM
Finish: 10:40 AM

Test Pit No. TP-9 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement and sub-base/Black stained cmf sand with trace silt, bricks, and ash.
					0.0		
2.0							
	TP-9	2.0	4.0		0.0	0.0	
4.0				4.0			Gray silt and fine sand with some clay.
					0.0		
6.0							
					0.0		
8.0				8.0			Brown mf sand with little silt. Petroleum odor.
					6.5		
10.0					1919		
	TP-9	10.0	12.0		2160	284	
12.0				12.0			Dark brown cmf sand with some gravel. Petroleum odor.
					672		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes:

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Southern central portion of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 23, 2011

Start: 10:55 AM Finish: 11:30 AM

Test Pit No. TP-10 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel fill/Black stained cmf sand with trace silt.
					0.0		
2.0							
	TP-10	2.0	4.0	3.0	0.0	0.0	Gray ash.
4.0				3.5			Brown peat with trace silt.
				5.0	0.0		Light gray silt with some f sand and trace silt.
6.0							
					0.0		
8.0				8.0			Brown mf sand with some silt.
					0.0		
10.0							
					78.8		
12.0	TP-10	11.0	13.5	12		248	Dark brown mf sand with some gravel. Petroleum odor.
13.5							Bottom of test pit at 13.5 feet bgs.

Notes:

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Architecture, Engineering & Landscape Architecture, P.C.

TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: North central portion of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 23, 2011

Start: 12:50 PM Finish: 1:25 PM

Test Pit No. TP-11 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel fill/Brown silt with little fine sand.
					0.0		
2.0							
					0.0		
4.0				4.0			Black organic/peat.
				4.5	30.3		Brown silt with little f sand and trace clay.
6.0							
	TP-11	6.0	8.0		23.8	27.8	
8.0							
10.0				10.0			Dark brown silt with some mf sand. Petroleum odor.
	TP-11	10.0	12.0	11.0	2197	805	Dark brown mf sand with some gravel and little silt. Petroleum odor.
12.0							
					1330		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: Central portion of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 23, 2011
Start: 1:30 PM
Finish: 1:50 PM

Test Pit No. TP-12
Sheet 1 of 1
Representative: DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement and sub-base/Dark brown cmf sand with some silt.
					0.0		↓
2.0				2.0			Black peat with little silt, ash, and brick fragments.
					7.0		↓
4.0							↓
				4.5			Dark brown mf sand with some silt.
6.0							↓
					35.5		↓
8.0							↓
							↓
10.0				10.0			↓
	TP-12	11.0	13.0		1786	983	Silt with little f sand and trace clay. Petroleum odor.
12.0				12.0			Dark brown cmf sand with some gravel and little silt. Petroleum odor.
13.0					1284		↓
							Bottom of test pit at 13.0 feet bgs.

Notes:

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Along southern boundary on the western portion of the site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 23, 2011

Start: 2:15 PM Finish: 2:35 PM

Test Pit No. TP-13 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement with sub-base/Black cmf sand with little silt.
					0.0		
2.0							
					0.0		
4.0							
				5.0	0.0		Gray silt with little mf sand.
6.0							
					0.0		
8.0							
					0.0		
10.0				10.0			Dark brown cmf sand with little silt. Slight petroleum odor.
					16.9		
12.0	TP-13	11.0	13.0	12.0	44.8	8.3	Dark brown cmf sand with some gravel and little silt. Slight petroleum odor.
13.0							
							Bottom of test pit at 13.0 feet bgs.

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Test Pit: Centrally located on western portion of site

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: August 23, 2011
Start: 2:45 PM
Finish: 3:45 PM

Test Pit No. TP-14 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/23		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel fill/Dark brown cmf sand with some silt.
					0.0		↓
2.0				2.0			Black stained peat with some silt.
	TP-14	2.0	3.0		0.0	10.2	↓
4.0				4.0			Brown mf sand with some silt and trace clay.
				5.5	0.0		Black stained mf sand with some silt and trace clay.
6.0				6.0			Brown mf sand with some silt and trace clay.
					0.0		↓
8.0							↓
					3.4		↓
10.0				10.0			Brown mf sand with some silt. Petroleum odor.
	TP-13	11.0	13.0		593	107	↓
12.0				12.0			Dark brown mf sand and gravel with some silt. Petroleum odor.
13.0							↓
							Bottom of test pit at 13.0 feet bgs.

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Central western portion of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 24, 2011

Start: 9:55 AM Finish: 10:15 AM

Test Pit No. TP-15 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/24		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel fill/Dark brown mf sand with some gravel and little silt.
					0.0		
2.0							
					0.0		
4.0							
				5.0	0.0		Dark brown/gray mf sand and silt with trace clay.
6.0							
					0.0		
8.0							
					0.0		
10.0							
	TP-15	11.0	13.0	11.0	0.0	0.0	Light brown mf sand with trace silt.
12.0							
					0.0		
13.5							Bottom of test pit at 13.5 feet bgs.

Notes: Uncovered wood structure at 4 feet bgs.

BEARDSLEY DESIGN ASSOCIATES
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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Northwest corner of property (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 24, 2011

Start: 8:30 AM Finish: 9:20 AM

Test Pit No. TP-16 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/24		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement and sub-base/Dark brown cm sand with some gravel and litlle silt.
					0.0		↓
2.0				2.0			Dark brown mf sand with some silt and trace clay.
					0.0		↓
4.0							↓
					0.0		↓
6.0							↓
	TP-13	6.0	8.0	6.5	0.0	0.0	Brown/gray silt with some clay and little f sand.
8.0							↓
					0.0		↓
10.0							↓
				10.5	0.0		Dark brown mf sand with some silt.
12.0	TP-16	11.0	13.0	12.0	0.0	0.0	Dark brown mf sand with trace silt.
13.0							↓
							Bottom of test pit at 13.0 feet bgs.

Notes: Uncovered stone and concrete foundation at 3 feet bgs.

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TEST PIT LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Test Pit: Southwest corner of site (see Figure 7 and 8)

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111

Ground Elevation: N/A

Date: August 24, 2011

Start: 10:25 AM Finish: 11:05 AM

Test Pit No. TP-17 Sheet 1 of 1 Representative DEP

Ground Water Observations

Date	Time	Depth
8/24		Not Observed

DEPTH (FEET)	SAMPLE ID:	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt pavement and sub-base/Brown cmf sand and gravel with little silt.
					0.0		
2.0							
					0.0		
4.0				4.5			Gray/brown silt with some fine sand and little clay.
					0.0		
6.0				6.5			Gray silt with little clay.
	TP-17	6.0	8.0		0.0	0.0	
8.0							
					0.0		
10.0				10.0			Light brown mf sand with little gravel.
	TP-17	11.0	13.0		0.0	0.0	
12.0							
13.0					0.0		
							Bottom of test pit at 13.0 feet bgs.

Notes:

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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 11:00 AM
Finish: 2:00 PM

Boring No. MW-4 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0							Brown cmf sand and gravel
2.0	1	0	4.0		2.9	110.8	
4.0							
6.0	2	4.0	8.0		2.1	13.2	
8.0				8.0			Moist Black cmf sand and gravel trace silt Petroleum odor
10.0	3	8.0	12.0		157	1012	
12.0							
				13.0			Red brown silt

Notes:
Collected soil sample MW-4 (8-12) at 12:30 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 11:00 AM
Finish: 2:00 PM

Boring No. MW-4 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	14.9		4.6	611.3	Red brown silt
							↓
16.0	5	16.0	16.7		16.5	15.7	↓
							Spoon refusal at 16.7 feet bgs.
18.0							Set monitoring well at approximately 18 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 13, 2012
Start: 12:45 PM
Finish: 3:00 PM

Boring No. MW-5 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/13/2012		7.0 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.7			Top soil and gravel/Brown mf sand with little silt trace gravel
							↓
2.0	1	0.0	4.0		0.0	1.2	↓
							↓
4.0							↓
				5.8			Black brown cm sand little gravel with ash and bricks
6.0	2	4.0	8.0		2.8	1.9	↓
							↓
8.0				8.0			Brown cmf sand some gravel trace silt Petroleum odor
							↓
10	3	8.0	12.0		259	1360	↓
							↓
12							↓
				13.8			Tan silt little clay

Notes:
Collected soil sample MW-5 (8-12) at 2:15 PM.

BEARDSLEY DESIGN ASSOCIATES
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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 13, 2012
Start: 12:45 PM
Finish: 3:00 PM

Boring No. MW-5 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/13/2012		7.0 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	16.0	14.5	93.8	844	Red brown silt
16.0							
	5	16.0	18.0	16.5	0.0	19.2	Brown gravel
18.0				16.9			Red brown silt
							Set monitoring well at approximately 18 feet bgs

Notes:

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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12, 2012
Start: 12:00 PM
Finish: 3:00 PM

Boring No. MW-6 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/12/2012	1:15 PM	7.2 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Topsoil/Brown f sand and silt
2.0	1	0.0	4.0		0.0	0.0	
4.0							
6.0	2	4.0	8.0	6.0	0.0	0.0	Moist brown mf sand and silt trace gravel with brick fragments
8.0							
10.0	3	8.0	12.0	10.0	0.0	12.5	Light brown cm sand little gravel
12.0							
				13.0			Gray f sand and silt Slight petroleum odor

Notes:
Collected soil sample MW-6 (8-12) at 2:15 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12, 2012
Start: 12:00 PM Finish: 3:00 PM

Boring No. MW-6 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/12/2012	1:15 PM	7.2 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	16.0		3.5	5.2	Gray f sand and silt
							↓
16.0				16.0			Dark brown silt trace gravel
	5	16.0	17.2		0.0	0.0	↓
18.0							Spoon refusal at 17.2 feet bgs
							Set monitoring well at approximately 18 feet bgs

Notes:

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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12, 2012
Start: 9:00 AM
Finish: 11:30 AM

Boring No. MW-7 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/12/2012	10:20 AM	No reading

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt and gravel fill/Brown cm sand little silt and gravel
2.0	1	0.0	4.0		0.0	0.0	
4.0							
6.0	2	4.0	8.0	6.0	0.0	0.0	Light gray mf sand and silt
8.0							
10.0	3	8.0	12.0	10.0	0.0	0.0	Light gray cmf sand little silt
12.0				12.0			Light brown cmf sand trace gravel

Notes:
Collected soil sample MW-7 (8-12) at 10:15 AM.

BEARDSLEY DESIGN ASSOCIATES
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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12, 2012
Start: 9:00 AM
Finish: 11:30 AM

Boring No. MW-7 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/12/2012	10:20 AM	No reading

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	16.0	14.0	0.0	0.0	Gray silt trace clay
							↓
16.0				16.0			Gray silt trace fine sand
							↓
18.0	5	16.0	20.0		0.0	0.0	
							↓
20.0							
							Set well at approximately 20 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 8:20 AM
Finish: 10:50 AM

Boring No. MW-8 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/17/2012		8.5 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Gravel/Brown black cm sand with bricks and ash
	1	0.0	4.0		3.8	2.8	
2.0							
4.0							
				5.5			Gray f sand and silt trace clay
6.0	2	4.0	8.0		3.3	4.7	
				7.5			Moist brown cmf sand and silt
8.0							
				9.0			Moist cm sand some gravel/Stained black between 9.0'-9.4' bgs/Petroleum odor
10.0	3	8.0	12.0		517	1298	
12.0							
				13.2			Saturated red brown silt

Notes: Collected soil sample MW-8 (8-12) at 9:15 AM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC Location of Boring See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111 Ground Elevation N/A

Date: January 17, 2012 Start 8:20 AM Finish 10:50 AM

Boring No. MW-8 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/17/2012		8.5 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	16.0		4.3	396	Red brown silt
							↓
16.0							↓
	5	16.0	18.0	17.2	0.0	17.6	Moist red brown silt with stone fragments
18.0							↓
							Set monitoring well at approximately 18 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
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BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12 and 13, 2012
Start: 1/12 4:00 PM
Finish: 1/13 12:00 AM

Boring No. MW-9 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth
1/17/2012		8.5 feet bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Asphalt and gravel sub base/Brown cmf sand little silt and gravel
2.0	1	0.0	4.0		0.0	0.0	
				3.0			Black cm sand and silt trace clay with ash/wood debris
4.0							
6.0	2	4.0	8.0	6.0	0.0	0.0	Brown mf sand and silt
8.0				8.5			Light brown f sand and silt Slight petroleum odor
10.0	3	8.0	12.0	10.0	3.5	1.4	Light brown cm sand little gravel
12.0							
				13.0			Brown f sand and silt trace gravel

Notes: Collected soil sample MW-9 (8-12) at 10:30 AM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 12 and 13, 2012
Start: 1/12 4:00 PM
Finish: 1/13 12:00 AM

Boring No. MW-9 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	14.5		0.0	447	Spoon refusal at 14.5 feet bgs
							Set monitoring well at approximately 15.8 feet bgs
16.0							

Notes:
Could not advance boring deeper due to boulder.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC Location of Boring See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111 Ground Elevation N/A

Date: January 17, 2012 Start 5:05 PM Finish 5:40 PM

Boring No. SB-4 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.6			Asphalt/Brown mf sand and silt trace gravel
2.0	1	0.0	4.0		0.0	6.3	
				3.7			Brown mf sand and silt with ash/bricks
4.0							
6.0	2	4.0	8.0		0.0	0.0	
				7.4			Light brown mf sand little silt
8.0							
10.0	3	8.0	12.0	10.5	46.2	839.1	Moist light brown mf sand little gravel
12.0				12.6			Saturated red brown silt trace clay

Notes: Collected soil sample SB-4 (8-12) at 5:15 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 5:05 PM
Finish: 5:40 PM

Boring No. SB-4 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	16.0		13.2	161.7	Red brown silt trace clay
							↓
16.0							↓
16.7							Boring refusal at 16.7 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC Location of Boring See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111 Ground Elevation N/A

Date: January 17, 2012 Start 4:35 PM Finish 5:00 PM

Boring No. SB-5 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.6			Asphalt/Brown f sand and silt trace gravel with bricks
2.0	1	0.0	4.0		0.0	0.0	
4.0							
6.0	2	4.0	8.0		0.0	0.0	
				7.4			Gray cm sand some gravel
8.0				8.5			Saturated gray cm sand and silt little gravel
				9.8			Saturated light brown cmf sand little gravel Petroleum odor
10.0	3	8.0	12.0		5.6	191.6	
12.0							
				13.2			Moist red brown silt

Notes: Collected soil sample SB-5 (12-14.7) at 4:50 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC Location of Boring See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111 Ground Elevation N/A

Date: January 17, 2012 Start 5:05 PM Finish 5:40 PM

Boring No. SB-5 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	14.7		17.6	1300	Red brown silt
14.7							Boring refusal at 14.7 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 4:00 PM
Finish: 4:30 PM

Boring No. SB-6
Sheet 1 of 2
Representative: DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.6			Topsoil/Dark brown cm sand and silt
							↓
2.0	1	0.0	4.0		0.0	0.0	↓
				3.7			Red f sand trace gravel
4.0				4.5			Brown f sand and silt trace clay
							↓
6.0	2	4.0	8.0		0.0	0.0	↓
				7.6			Saturated brown cm sand and silt some gravel
8.0				8.5			Saturated red brown f sad and silt
							↓
10.0	3	8.0	12.0	10.5	0.0	52.4	Brown cmf sand little gravel
							↓
12.0				12.7			Red brown silt trace gravel
							↓

Notes: Collected soil sample SB-6 (8-12) at 4:15 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: January 17, 2012
Start: 4:00 PM
Finish: 4:30 PM

Boring No. SB-6 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	14.5		0.0	6.0	Red brown silt trace gravel
14.5							Boring refusal at 14.5 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC

Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111

Ground Elevation: N/A

Date: January 17, 2012

Start: 3:00 PM Finish: 3:50 PM

Boring No. SB-7 Sheet 1 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				0.5			Topsoil/Brown mf sand and silt
2.0	1	0.0	4.0		0.0	0.0	
				3.0			Brown mf sand and silt with ash, bricks, and wood
4.0							
6.0	2	4.0	8.0		0.0	0.0	
8.0				8.0			Red brown f sand and silt
				9.6			Light brown cmf sand
10.0	3	8.0	12.0		0.0	5.5	
				11.4			Saturated red brown silt
12.0							

Notes: Collected soil sample SB-7 (8-12) at 3:15 PM.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC Location of Boring See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111 Ground Elevation N/A

Date: January 17, 2012 Start 3:00 PM Finish 3:50 PM

Boring No. SB-7 Sheet 2 of 2 Representative DEP

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
14.0	4	12.0	14.6		0.0	4.2	Red brown silt
14.6							Boring refusal at 14.6 feet bgs

Notes:

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 26, 2009
Start: 3:20 AM
Finish: 4:10 AM

Boring No. MW-1 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Asphalt pavement and sub-base/Brown sand
	1	1.0	4.0	3.0		5.3	Tan sand and silt
4.0							↓
	2	4.0	8.0	7.0		0.2	Reddish sand and silt
8.0				8.0			Reddish sand
	3	8.0	12.0			0.0	↓
12.0				12.0			Tan sand and silt
	4	12.0	16.0	14.0		0.4	Black sand
16.0				16.0			Reddish sand and silt with pebbles
	5	16.0	20.0			0.6	↓
20.0							↓
							Stopped boring at 20-feet bgs

Notes: Collected sample MW-1 (16-20) at 4:00 pm.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 26, 2009
Start: 2:20 PM
Finish: 3:10 PM

Boring No. SB-1 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Asphalt pavement and sub-base/Brown and black sand with cobbles
	1	1.0	4.0	3.0		0.1	Tan sand
4.0				4.0			Tan sand and silt
	2	4.0	8.0			0.0	↓
8.0				8.0			Reddish/tan c sand
	3	8.0	12.0	11.0		0.0	Reddish/tan sand and silt
12.0							Black/tan sand with strong petroleum odor
	4	12.0	15.0	14.0		2444	Reddish sand and silt
15.0							↓
							Stopped boring at 15.0 feet bgs

Notes: Collected sample SB-1 (12-14) at 3:00 pm.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 26, 2009
Start: 8:20 AM
Finish: 9:40 AM

MW-2 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.3			Asphalt pavement and sub-base/Dark brown sand and gravel
	1	1.3	4.0	2.0		0.2	Brown clay
4.0				4.0			Dark brown sand and pebbles
	2	4.0	8.0	6.0		0.1	Brown/gray silt
8.0							↓
	3	8.0	12.0	9.0		1098	Brown and black sand with strong petroleum odor
12.0				12.0			Tan/gray sandy silt
	4	12.0	15.0	15.0		4.6	Red silt and f sand with pebbles
15.0							↓
							Geoprobe refusal at 15.0 feet bgs

Notes: Collected sample MW-2 (8-12) at 9:30 am.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 26, 2011
Start: 10:20 AM
Finish: 11:45 AM

Boring No. SB-2 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Asphalt pavement, sub-base, and metal shards/ Dark brown/tan sand and gravel
	1	1.0	4.0			2.4	↓
4.0							↓
	2	4.0	8.0	5.0		46.5	Gray/tan sandy silt
8.0				8.0			Reddish brown sand with pebbles
	3	8.0	12.0	9.5		429	Tan/black sandy silt with petroleum odor
12.0				12.0			Reddish sandy silt
	4	12.0	16.0	15.5		12.9	Red silt with fine sand and pebbles ↓
16.0							↓
17.0							↓
							Geoprobe refusal at 17.0 feet bgs

Notes: Collected sample SB-2 (8-12) at 11:00 am.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 26, 2009
Start: 11:55 AM
Finish: 2:00 PM

Boring No. MW-3 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth
2/26	During boring	Approx: 10' bgs

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Asphalt pavement and sub-base/Tan sand
	1	1.0	4.0	3.0		0.7	Tan sand and silt
4.0							↓
	2	4.0	8.0	6.0		0.1	Gray sand and silt
8.0				8.0			Gray/brown sand
	3	8.0	12.0	11.0		58.1	Tan sandy silt
12.0							↓
	4	12.0	15.0	14.0		4.4	Tan/gray sandy silt and pebbles
15.0							↓
							Stopped boring at 15.0 feet bgs

Notes: Collected sample MW-3 (8-12) at 12:30 pm.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: February 27, 2009
Start: 8:30 AM
Finish: 9:20 AM

Boring No. SB-3 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Asphalt pavement and sub-base/Gray/brown sand
	1	1.0	4.0	3.0		0.0	Brown sandy silt
4.0							↓
	2	4.0	8.0	5.0		0.0	Tan/brown sandy silt
8.0				8.0			Tan/brown c sand
	3	8.0	12.0	11.0		59.4	Reddish silt with black sand and pebbles/petroleum odor
12.0							↓
	4	12.0	16.0	13.0		7.4	Reddish silt with fine sand and pebbles
16.0							↓
							Stopped boring at 16.0 feet bgs

Notes: Collected sample SB-3 (8-12) at 9:25 am.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: March 2, 2009
Start: 9:00 AM
Finish: 10:40 AM

Boring No. CMW-1 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Concrete sidewalk and sub-base/Black sand
	1	1.0	4.0	5.0		0.0	Tan sand and silt
4.0				7.0			Tan/rust c sand
	2	4.0	8.0			0.0	
8.0							
	3	8.0	12.0	11.0		0.0	Tan silt
12.0							
	4	12.0	16.0	13.0		2.5	Tan/brown sandy silt
16.0							
17.5	5	16.0	17.5			1798	
							Geoprobe refusal at 17.5 feet bgs

Notes: Collected sample CMW-1 (12-16) at 10:30 am.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: March 2, 2009
Start: 3:45 PM
Finish: 4:25 PM

Boring No. CMW-2 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Fill material/Tan silty sand
	1	0.0	4.0			0.0	
4.0							
	2	4.0	8.0	7.0		0.0	Yellow sand
8.0				8.0			Tan c sand
	3	8.0	12.0	11.0		0.2	Brown silty sand
12.0							
14.0	4	12.0	14.0			0.1	Slight petroleum odor
							Stopped boring at 14.5 feet bgs

Notes: Collected sample CMW-2 (12-14.5) at 4:15 pm.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: March 2, 2009
Start: 12:00 PM
Finish: 12:40 PM

Boring No. CSB/CMW-3 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0							Concrete/fill
							↓
4.0							↓
	1	4.0	8.0	5.0		480	Tan silty sand with petroleum odor
8.0				8.0			Black/brown stained c sand
	2	8.0	12.0	11.0		0.0	Tan/yellow silty sand
12.0				12.0			Black c sand with petroleum staining and odor
	3	12.0	16.0			187	↓
16.0							↓
							Stopped boring at 16.0 feet bgs

Notes: Collected sample CSB/CMW-3 (4-8) at 12:30 pm.

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, P.C.

BORING LOG

BDA PROJECT NO. 08921

Client: 700 Out Parcel, LLC
Location of Boring: See Figure 7 and 8

Project: 700 Outparcel – Remedial Investigation
Brownfield Site #: C734111
Ground Elevation: N/A

Date: March 2, 2009
Start: 2:50 PM
Finish: 3:20 PM

Boring No. CSB-4 Sheet 1 of 1 Representative RDM

Ground Water Observations

Date	Time	Depth

DEPTH (FEET)	SAMPLE NO.	DEPTH OF SAMPLE (FEET) FROM	DEPTH OF SAMPLE (FEET) TO	DEPTH OF CHANGE (FEET)	PID (PPM) IN-SITU	PID (PPM) HEAD-SPACE	CLASSIFICATION OF MATERIAL
							f – FINE and - 35-50% m – MEDIUM some - 20-35% c – COARSE little - 10-20% trace - 1-10%
0.0				1.0			Fill/Dark brown silty c sand
	1	0.0	4.0			0.0	↓
4.0				4.0			Tan sandy silt
	2	4.0	8.0			0.0	↓
8.0					9.0		Dark brown sand
	3	8.0	12.0		10.0	0.0	Brown/tan c sand
12.0	4	12.0	13.8		12.0	0.0	Brown/black sandy gravel
13.8							↓
							Geoprobe refusal at 13.8 feet bgs

Notes: Collected sample CSB-4 (12-13.8) at 3:20 pm.

ATTACHMENT B

Monitoring Well Installation and Sampling Records

7426 Shackham Road
Tully, N.Y. 13159
Phone (607) 842-6580
Fax (607) 842-6485

Lyon Drilling Co.

Fax

To: Rich McKenna From: Jeff

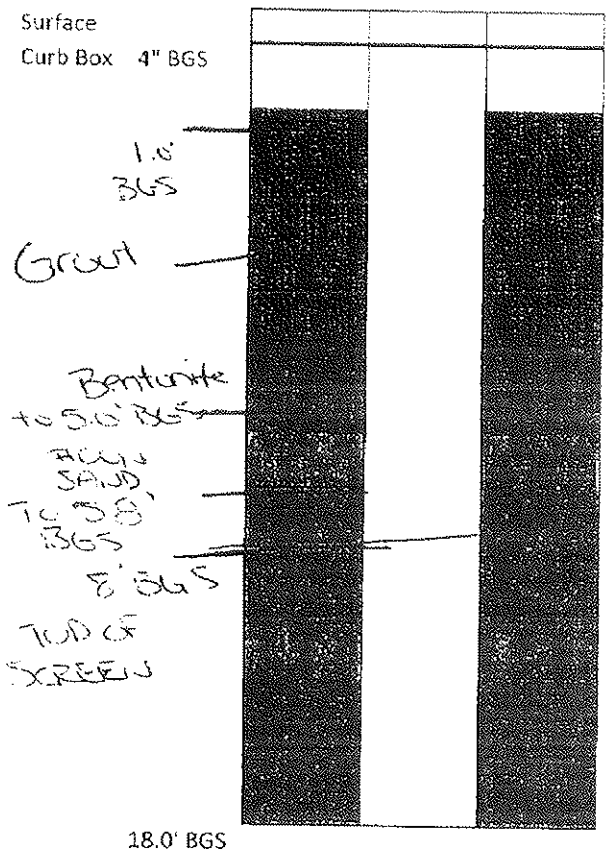
Fax: Pages: 1 with Cover

Phone: Date:

Re: CC:

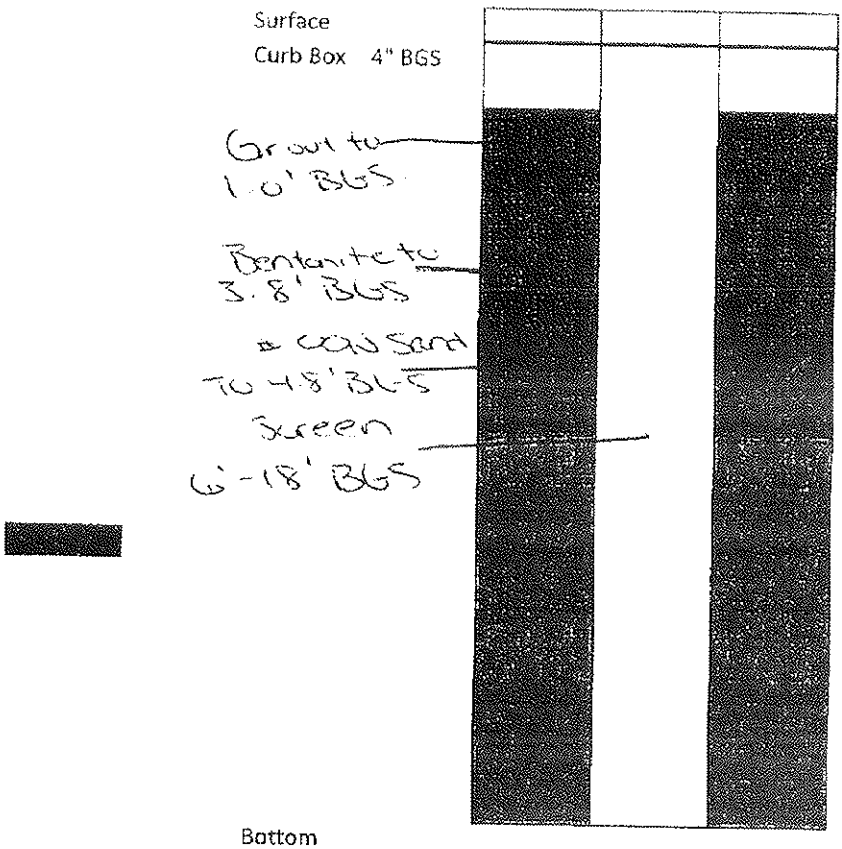
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

MW-4



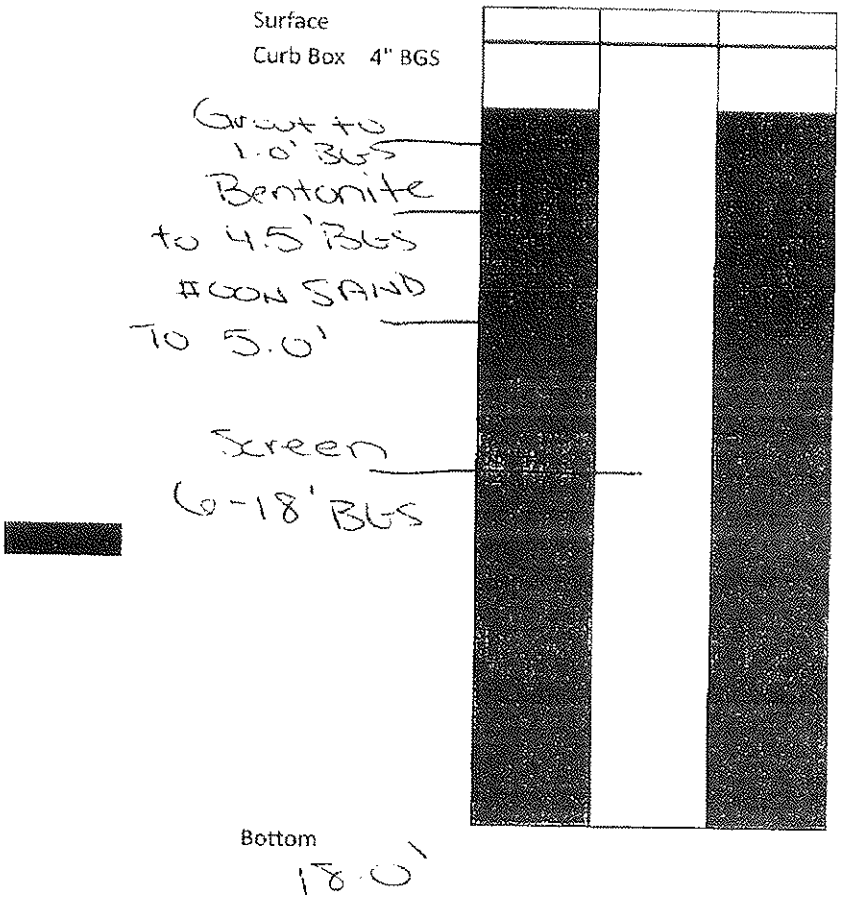
NOT TO SCALE

~~MW-6~~ MW-5



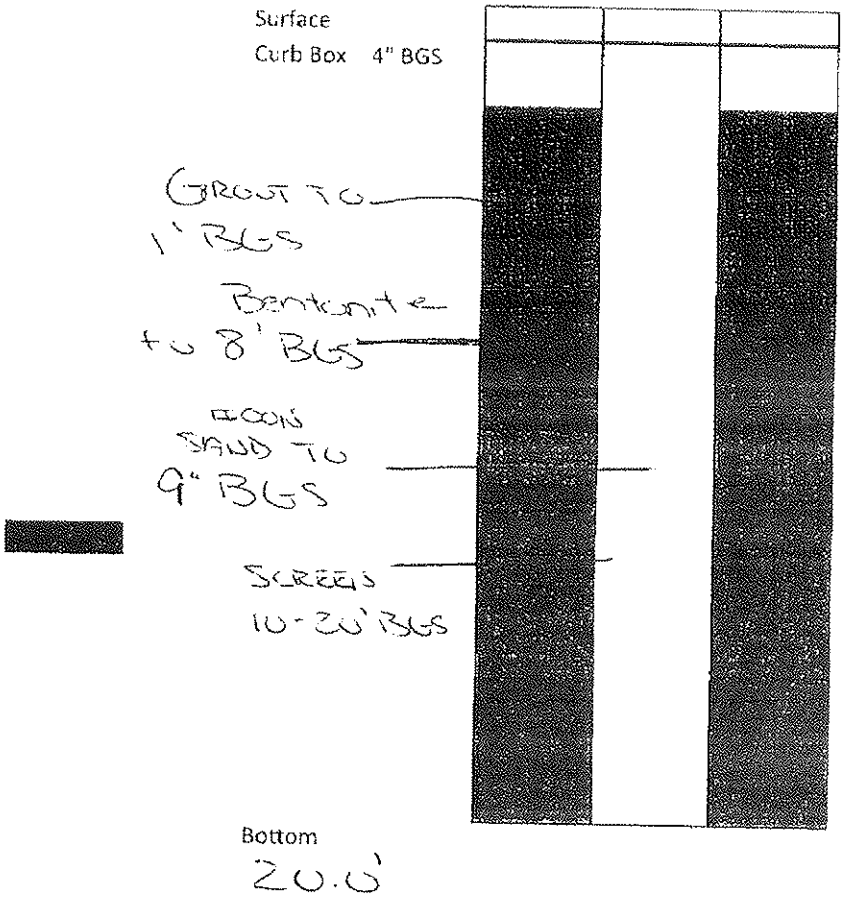
NOT TO SCALE

MW-6



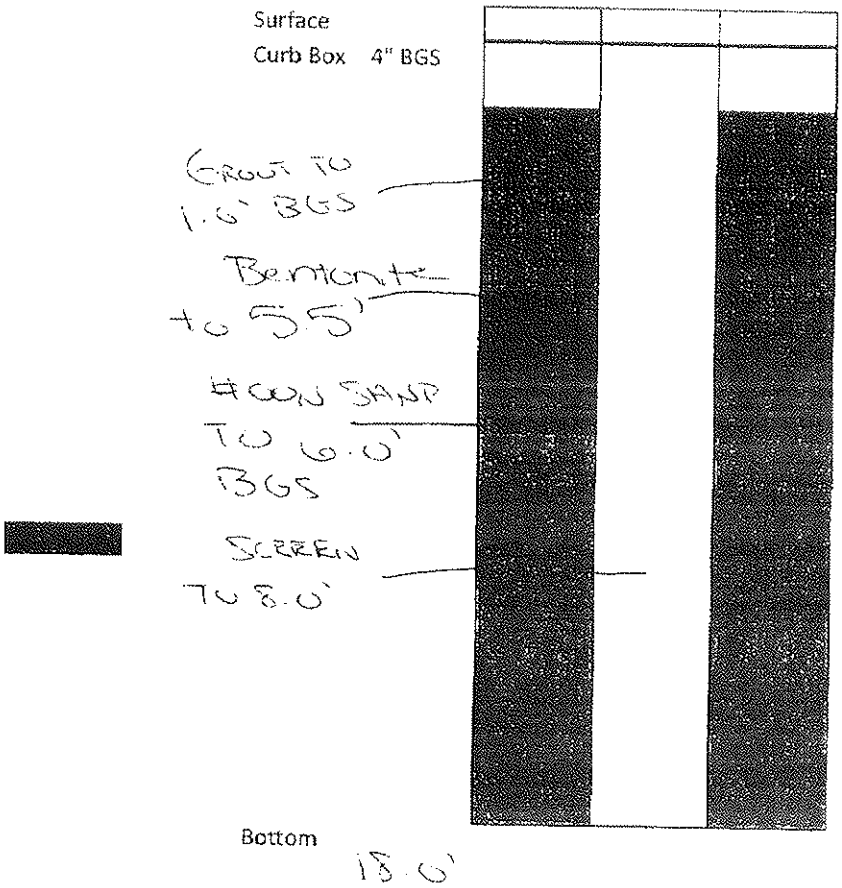
NOT TO SCALE

MW-7



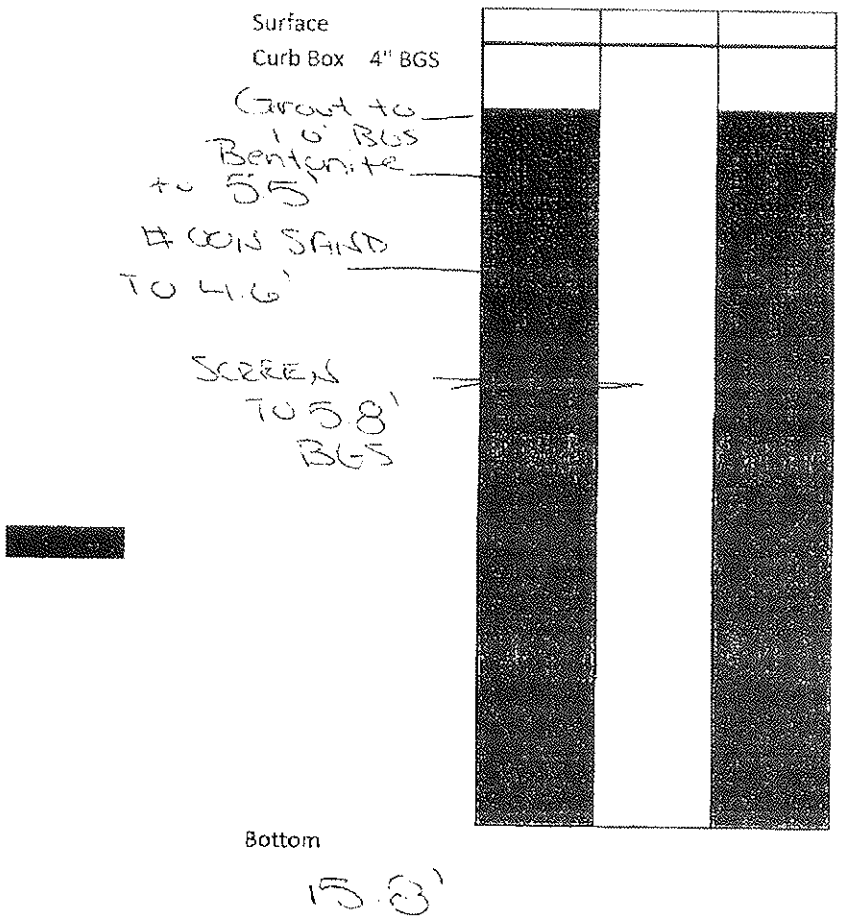
NOT TO SCALE

MW-8



NOT TO SCALE

AW-9



NOT TO SCALE

BDA Beardsley Design Associates
Architecture, Engineering & Landscape Architecture, PC

MONITORING WELL SAMPLING LOG

Project: 700 Outparcel NO. 08921

DATE: 1/19/2012 BY: DEP SUBJECT: Groundwater Sampling

	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
PVC Elevation	98.52	99.95	99.94	99.95	99.86	99.54
Initial Depth to Water (ft)	8.86	7.02	7.05	13.39	11.11	13.3
Depth to Bottom (ft)	17.53	17.21	17.02	19.54	17.31	15.54
Water Column Height (ft)	8.67	10.19	9.97	6.15	6.20	2.24
3-5 Water Volume (gal)	4.24-7.0	4.90-8.35	4.90-8.10	3.0-5.0	3.03-5.05	1.10-1.185
Volume Purged (gal)	~7.0	~8.5	8.25	~5.5	~5.0	~1.25

Remarks (secured/locked, odor, sheen, color, etc.)

Observe Well	Secure	Secure	Secure	Secure	Secure	Secure/Slight Petroleum odor
Begin Purge	11:15	12:40	1:50	2:40	10:25	9:40
End Purge	12:10	1:15	2:30	3:30	11:00	3:50
Sample Well	12:15	1:20	2:35	3:35	11:05	4:10

Field Analyses (if applicable)

	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge
Temp	13.16	12.87	10.65	10.54	9.96	9.93	13.25	10.10	12.25	10.17	11.93	12.55
pH	6.84	6.71	6.78	6.91	7.02	6.92	6.59	6.62	6.80	6.57	6.59	6.69
DO (mg/l)	4.00	2.38	5.27	5.82	8.04	7.24	4.48	3.93	2.74	2.03	1.87	1.39
Turb. (NTU)	174	10.20	130	38.10	84.30	25.80	80.00	21.70	122.50	39.80	800+	58.00
ORP(mV)	-7	-56	25	100	126	148	134	37	12	6	26	-40

Volume Factors:
1" well: 0.041 gal/ft
2" well: 0.163 gal/ft
4" well: 0.653 gal/ft

BEARDSLEY DESIGN ASSOCIATES
Architecture, Engineering & Landscape Architecture, PC

MONITORING WELL SAMPLING LOG

Project: 700 Outparcel NO. 08921

DATE: 2/27 and 3/4 2009 BY: RDM/DEP SUBJECT: Groundwater Sampling

	MW-1	MW-2	MW-3	CMW-1	CMW-2	CSB/MMW-3
Surface Elevation (ft)	97.32	97.33	97.25	97.4	97.22	97.38
Initial Depth to Water (ft)	13.56	11.35	9.10	12.97	10.73	14.00
Depth to Bottom (ft)	19.79	14.84	14.61	17.51	14.88	14.75
Water Column Height (ft)	6.23	3.49	5.51	4.54	4.15	0.75
3-5 Water Volume (gal)	0.77-1.28	0.43-0.72	0.68-1.13	0.56-0.93	0.51-0.85	N/A
Volume Purged (gal)	~1.5	~1.0	~1.25	~1.0	~1.0	N/A
Remarks (secured/locked, odor, sheen, color, etc.)						
Observe Well						
Begin Purge						
End Purge						
Sample Well	3:08 PM	2:30 PM	1:40 PM	12:40 PM	12:10 PM	N/A
	2/27/2009	2/27/2009	2/27/2009	3/4/2009	3/4/2009	

Field Analyses (if applicable)

	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge	pre purge	post purge
Temp												
pH												
DO (mg/l)												
Turb. (NTU)												
ORP(mV)												

Volume Factors:
1" well: 0.041 gal/ft
2" well: 0.163 gal/ft
4" well: 0.653 gal/ft

ATTACHMENT C

Data Usability Summary Reports

(Provided on Compact Disk)

ATTACHMENT D

Laboratory Analytical Reports

(Provided on Compact Disk)