



Department of
Environmental
Conservation

SITE CHARACTERIZATION REPORT

Corning Study Area – Offsite OU5

NYSDEC Site No. 851046

March 2017

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New York State Department of
Environmental Conservation
Region 8
Avon, New York

Site Characterization Report

Corning Study Area – Offsite OU5
Corning, New York
Site # 851046

Work Assignment # D-007618-32

March 2017

I, Andrew Vitolins, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER approved work plan and any DER approved modifications.



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ACRONYMS AND ABBREVIATIONS

| | |
|-------------|---|
| ASP | Analytical Services Protocol |
| CAMP | Community Air Monitoring Plan |
| DUSR | Data Usability Summary Report |
| EMI | electromagnetic induction |
| FEMA | Federal Emergency Management Agency |
| Ft amsl | feet above mean sea level |
| Ft bgs | feet below ground surface |
| GPR | ground penetrating radar |
| GPS | global positioning system |
| HASP | Health and Safety Plan |
| IDW | investigative derived waste |
| In bgs | inches below ground surface |
| NYSDEC | New York State Department of Environmental Conservation |
| OU | Operable Unit |
| PCB | polychlorinated biphenyl |
| PID | Photoionization Detector |
| PVC | polyvinyl chloride |
| QA | Quality Assurance |
| QC | Quality Control |
| RCRA | Resource Conservation and Recovery Act |
| ROW | Right-of-way |
| SCO | soil cleanup objectives |
| SOP | standard operating procedure |
| SVOC | semi-volatile organic compound |
| TCLP | Toxicity characteristic leaching procedure |
| Target Fill | Includes; glass, ash, brick, slag, etc. |
| USGS | U.S. Geological Survey |
| VOC | volatile organic compound |

EXECUTIVE SUMMARY

This report presents the findings of a Site Characterization conducted at the Corning Study Area Offsite Expansion (Expansion Area) Operable Unit 5 (OU5) associated with the New York State Department of Environmental Conservation [NYSDEC] site No. 851046. OU5 contains 108 residential tax parcels (parcels) north of East Pulteney Street and west of Pyrex Street in the City of Corning, New York. The Site Characterization included a geophysical survey of the OU5 site, excavation of test pits, drilling of soil borings, and collection and analysis of surface, subsurface, and garden soil samples to assess environmental conditions in OU5.

Samples were visually inspected to characterize the soil and assess the presence of target fill, which includes a number of by-products from the glass making process or demolition materials from glass furnaces, mainly consisting of ash, brick, glass, slag, and foundry sand. Soil boring locations were selected based on the presence of visible target fill, spatial representation, and utility and fill information from property owner interviews. Each soil sample selected for laboratory analysis was analyzed for TAL metals. If target fill was observed, soil samples were also analyzed for TCLP metals and TAL semi-volatile organic compounds (SVOCs).

Target fill, consisting of ash, brick, glass, and slag, was observed at 80 of the 108 properties in OU5. The target fill was thickest (up to 7 feet) in two areas of OU5: near the I-86 corridor at the north end of OU5 and to the southwest of the intersection of E. Pulteney Street and Pyrex St. The first area, along the northernmost portion of OU5, consists of parcels on High Street, Earl Street, and Clara Street to the south of the I-86 corridor. The second area consists of the parcels on Pyrex Street, South Place, Center Way, and East Pulteney Street. Layers of target fill were thickest around the East Pulteney and Pyrex Street intersection and tapered out heading south to properties on the south side of South Place.

Metals and SVOC concentrations exceeding 6NYCRR Part 375 residential use soil cleanup objectives (SCOs) were present in soil samples from the ground surface to the maximum soil boring depth of 16 feet below ground surface (bgs). However, most SCO exceedances were in soil collected from less than four feet bgs. The SCO exceedances are generally biased to soil samples collected from areas where more extensive target fill was observed, but were spread throughout OU5 at all sampled depth intervals.

Based on visual observations and laboratory results, human exposure to target fill and/or soil with concentrations greater than residential SCOs is possible during digging or excavation activities at most of the properties at OU5.

1 INTRODUCTION

On behalf of the New York State Department of Environmental Conservation (NYSDEC), Arcadis CE, Inc. (Arcadis) has prepared this Site Characterization Report (Report) to summarize investigation activities at the Corning Study Area (NYSDEC Site No. 851046) Offsite Expansion (Expansion Area) Operable Unit (OU) 5 (OU5). OU5 contains 108 residential properties located east of Center Way, north of East Pulteney Street and west of Pyrex Street in the City of Corning, Steuben County, New York (Figure 1). The Site Characterization was conducted under NYSDEC State Superfund Standby Contract Work Assignment No. D007618-32 in accordance with the approved Corning Study Area – Offsite OU5 Work Plan (Arcadis 2015). The objective of the Site Characterization was to evaluate and quantify the nature and extent of ash, brick, slag, and glass (target fill), metals, and semi-volatile organic compounds (SVOCs) in soil at OU5. Target fill includes a number of by-products from the glass making process or demolition materials from glass furnaces, mainly consisting of ash, brick, glass, slag, and foundry sand.

1.1 Study Area History

The City has a long history of manufacturing, particularly in brick and glassmaking. The most enduring glassmaking enterprise is Corning Incorporated (Corning), whose history dates back to 1868 when the Corning Flint Glass Works was established in Corning, New York (Weston 2014).

Based on title search of property deeds, the Study Area is located on a portion of lands previously owned by Corning Homes Inc. The deeds for these properties contained a condition that allowed Corning Glass Works to maintain structures, buildings, and “ash dumps as now located” [on the properties]. In 1937, Corning Homes, Inc. sold portions of the properties with the same conditional language included, which has never been extinguished (Weston 2014). Therefore, the original site No. 851046 Study Area was established as the boundary of the 1937 deed, which is bounded by Pyrex Street on the west, East Pulteney Street on the north, Post Creek on the east and the Chemung River on the southern border. The Study Area was expanded to include the area shown on Figure 1. The current property uses and zoning in the Study Area include residential and community services. The Study Area has been divided in to five OUs. OU1 through OU4 are to the south and east of Pyrex and East Pulteney. OU5 which is the focus of this Site Characterization Report is located to the north and west of OU1 through OU4 (Figure 1).

1.2 Site Description

The OU5 site is bounded by Interstate-86 to the north, Pyrex Street and I-86 to the east, Center Way (NYS Route 414) to the west, and the Guthrie Corning Medical Facility (130 Center Way) and East Pulteney Street to the south. OU5 includes 108 tax parcels and two berms located on the City of Corning Right of Way (ROW) along Center Way and on the NYS DOT ROW along Interstate 86. The boundaries of the OU5 site are shown on Figure 2.

1.2.1 Land Use and Ecology

Study Areas OU1 through OU4 consist of approximately 180 acres of land located on the eastern side of the City of Corning, New York along the northern bank of the Chemung River, northwest of the confluence with Post Creek shown on Figure 1. OU5 is approximately 30 acres in size and located to the northwest of OU1 through OU4. The properties within OU5 are zoned as low-density residential (R1). No industrial or commercial facilities are located within OU5. OU5 is a residential area that consists of 108 individual parcels. Of these parcels, 101 include single family residences, six include multi-family residences or apartments, one is a large garden, and one is vacant land. The ground surface within OU5 is composed of residential buildings, asphalt paved driveways and streets, concrete sidewalks, lawns, gardens, and vegetated areas. Two grass and vegetation covered berms are located along the northern and western boundaries of OU5.

The ecological setting of much of OU5 is composed of a terrestrial and ecological community created and maintained by residential activities and has been modified by human influence. The changes to OU5 were modified to such a degree that the physical conformation of the substrate and the biological composition of the residential community is substantially different from the character of the substrate or community as it existed prior to human influence. The ground cover is primarily mowed lawns with trees and other plants within many of the residential parcels in the Study Area (Weston 2014).

1.2.2 Topography and Drainage

OU5 is relatively flat with a slight downward gradient to the south toward the Chemung River. The Corning, New York 1976 U.S. Geological Service (USGS) 7.5-minute topographic quadrangle map indicates that OU5 generally ranges in elevation from 934 feet to 940 feet above mean sea level (ft amsl) although the berms on the northern and western edges of OU5 are higher in elevation.

Surface water within OU5 is collected in storm water drains and generally flows south or east toward the Chemung River. Surface water from the confluence of Post Creek and the Chemung River flows southward to where it ultimately joins the Susquehanna River. Due to the proximity of the Chemung River and Post Creek, a portion of OU5 at the eastern edge boundary (Figure 1), specifically, the flood control area, is located within both the Federal Emergency Management Agency (FEMA) 100-year and 500-year flood zones (FEMA, 2002).

1.2.3 Geology and Hydrogeology

OU5 is located in the Chemung River valley, and is predominately underlain by sand and gravel deposits of glaciofluvial origin, and more recent alluvial silts and fine sand deposits. In the vicinity of OU5, a low permeability, lacustrine silt and clay layer (approximately 10 feet thick) appears to be present about 30 feet below ground surface (ft bgs). The river valley deposits are on the order of 80-100 feet thick in the vicinity of the Study Area based on published information. These river valley deposits are underlain by low permeability shale/siltstone bedrock (Weston 2014).

1.3 Previous Investigations

Previous investigations have been conducted at the Corning-Painted Post High School, Study Area OU1, and at OU5. These investigations are summarized below.

1.3.1 Corning-Painted Post High School Investigation

The NYSDEC conducted sampling activities following the discovery of target fill during construction work at the high school in 2012 through 2014. The investigation results identified several contaminants at elevated levels. Approximately 22 percent of excavated soil contained characteristically hazardous levels of lead and/or cadmium as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Excavated fill soils were described as containing ash, brick, glass, and debris. At the end of the 2014 construction season, removal and excavation of fill material was largely complete, and approximately 8,332 tons of soil had been disposed of as hazardous waste and 28,785 tons of soil had been disposed of as non-hazardous waste (NYSDEC May 2015).

The concentrations of several metals and PCBs exceed the Part 375 unrestricted use soil cleanup objectives (SCOs) in some of the excavated fill soils. Maximum concentrations of these contaminants are listed below.

| Contaminants | Arsenic | Barium | Cadmium | Chromium | Lead | Mercury | Silver | Selenium | Total PCBs |
|------------------------|---------|--------|---------|----------|--------|---------|--------|----------|------------|
| Concentrations (mg/kg) | 550 | 13,000 | 100 | 58 | 20,000 | 2.6 | 4.3 | 30 | 0.87 |

Of the 214 samples analyzed for total RCRA 8 Metals, concentrations equaled or exceeded the residential use SCOs in 101 samples for arsenic, 17 samples for barium, 101 samples for cadmium, 1 sample for chromium, 77 samples for lead, and 15 samples for mercury.

Based on groundwater sampling conducted in September 2013, the water quality of the school's irrigation well, which is only used to water athletic fields as needed in dry weather, was not impacted by the fill. An adjacent public water supply well was sampled in June 2013. Contaminants were not detected at levels of concern either in this sampling event in previous routine sampling required of public water supplies. However, a more comprehensive evaluation of groundwater is being undertaken by Corning to ensure that impacts can be ruled out. The area is served by public water and no private potable water supplies are known in this area.

1.3.2 Study Area OU1-OU4 Investigation

Following the discovery of contaminated fill material during the Corning-Painted Post High School construction, Corning agreed to conduct an investigation in Study Area OU1-OU4 under a Consent Order with the NYSDEC. Study Area OU1 is a neighborhood adjacent to, and to the southeast of, OU5. The Study Area OU1-OU4 investigation included an initial records search followed by additional sampling of

soil and groundwater at the Corning-Painted Post High School property, related neighboring study areas, public rights-of-way, and some residential and other privately owned properties in the area where the fill was believed to be present. The investigation began in 2014 with sampling events conducted by Weston Solutions Inc. (Weston) on behalf of Corning through the end of 2015. Based on the Study Area OU1-OU4 investigation results, the primary contaminants of concern are metals including arsenic, barium, cadmium, lead, chromium, mercury, and select SVOCs. The characterization work in Study Area OU1 identified the presence of target fill at the boundaries of Study Area OU1 at East Pulteney Street and Pyrex Street near the intersection with Houghton Circle, shown in Figure 1.

1.3.3 NYSDEC Sampling

The investigation summarized in this subsection is from the May 2015 Site Characterization Preliminary Scope-of-Work (NYSDEC May 2015). In 2014, NYSDEC collected surface samples at 13 select properties in OU5 with the property owner's consent. Preliminary shallow evaluation work completed in 2014 by NYSDEC identified the presence of a layer of target fill with soil concentrations exceeding Part 375 Soil Cleanup Objectives for Protection of Public Health for Residential Use (Residential SCOs) at a residential property in OU5. One soil sample was collected on August 28, 2014 from a depth of approximately 12 to 24 inches below grade at a shallow soil evaluation location adjacent to the northwest portion of the house. Soils were evaluated to depth of approximately 24 inches bgs and a layer of fill containing ash, brick, and glass was noted from approximately 12 to 24 inches bgs. Arsenic, barium, and lead were detected at concentrations greater than Residential SCOs in samples collected from this layer.

Shallow soils were investigated at twelve additional residential properties in OU5. None of the preliminary shallow soil samples collected by NYSDEC from these properties contained metals at concentrations greater than the TCLP thresholds for hazardous waste. Although no layer of target fill was observed at these 12 properties, trace glass pieces and/or ash were identified within typically loamy soils at four of these properties. The analytical results of soil samples collected from three of these properties exceeded the Residential SCOs as described below.

- One soil sample was collected on August 28, 2014 from a depth of approximately 12 to 24 inches below grade at one of three shallow soil evaluation locations in the back yard. Soils were evaluated to depth of approximately 24 inches below grade and glass chunks of various size and color were noted among predominantly silty sand soil at each of the three locations. Arsenic, barium, cadmium, and lead were detected at levels greater than Residential SCOs.
- One soil sample was collected on September 15, 2014 from a depth of approximately 12 to 24 inches below grade at one of three shallow soil evaluation locations in the back yard. Soils were evaluated to depth of approximately 24 inches below grade and predominantly silty sand soils were noted at each of the three locations. The location where the soil sample was collected for laboratory analysis also contained ash and some small pieces of glass. No analytes were detected at concentrations greater than Residential SCOs.
- One soil sample was collected on September 15, 2014 from a depth of approximately 6 to 18 inches below grade at one shallow soil evaluation location in the front yard. Soils were evaluated to depth of

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approximately 18 inches below grade and predominantly silty sand soils with ash were noted in the interval that was sampled. Arsenic was detected at a concentration greater than the Residential SCO.

- Two soil samples were collected on December 17, 2014 from a depth of approximately 12 inches below grade at two shallow soil evaluation locations in the back yard; one in a vegetable garden and one in the lawn area. Both locations were evaluated to a depth of approximately 12 inches below the ground surface and pieces of glass were noted in soil from depths of approximately 6 to 12 inches. Arsenic, cadmium, and mercury were detected at concentrations greater than Residential SCOs in the sample from the garden. No analytes were detected at concentrations greater than Residential SCOs in the sample from the yard.

Shallow soil evaluation activities at the remaining eight residential properties did not identify the presence of target fill. Soil samples were generally not collected for laboratory analysis from these properties, with the exception of one soil sample collected from a large vegetable garden at a depth of approximately 12 inches below grade. No metals were detected at concentrations greater than Residential SCOs in this garden soil sample (NYSDEC May 2015).

During the investigation described above, NYSDEC was notified of the presence of glass in soil by the owners of 14 additional residential properties in OU5, which prompted the Site Characterization activities described herein.

2 SITE CHARACTERIZATION

The Site Characterization activities at the OU5 site have been conducted within the City of Corning (City) right-of-ways, NYS DOT I-86 right-of-ways, and on residential properties where individual owners have provided written consent granting access. The parcels where owners have granted access to date, the right-of-way borings, and test pit excavations are shown on Figure 4. A total of 108 residential parcels are located within OU5. Property owners granted access to 104 parcels by providing written permission for the investigation activities.

At times, minor adjustments were made to the sampling procedures based on circumstances encountered at specific properties or specific sampling locations. Some field adjustments or the addition of sampling locations that did not affect the project objectives were discussed verbally with the NYSDEC and confirmed by subsequent email and/or documented in the field notes. Deviations from the work plan are detailed in Section 2.6.

The sampling and excavation locations were recorded using a global positioning system (GPS) device with sub-meter accuracy. A Community Air Monitoring Plan (CAMP) was implemented during ground intrusive activities to provide a measure of protection for the downwind community and residents from potential airborne particulate or contaminant releases.

2.1 Preliminary Activities

Prior to the start of field activities, a list of local, State, and Federal elected officials, media outlets, property owners, tenant names, and addresses for properties within OU5 was prepared. A NYSDEC fact sheet was sent to the contact list. A letter to property owners, which accompanied the fact sheet, requested access to the property, asked permission to collect soil samples, and asked if the resident/owner had knowledge of ash, brick, or glass fill on their property. Arcadis compiled and summarized the responses from the residents/owners on behalf of NYSDEC and prepared the Corning Study Area – Offsite OU5 Work Plan (Arcadis 2015).

Arcadis or its subcontractors applied for and received the necessary permits for conducting the subsurface investigation work on public property. Authorization granting access and permits were obtained from the City of Corning and NYS DOT, as applicable, for the work performed in public right-of-ways (ROWS).

Prior to mobilization, available and relevant historical documents including the Work Plan and addenda for the Study Area investigation, and utility maps were reviewed. The Site Characterization field activities were conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP).

2.2 Geophysical Survey

A geophysical survey of each parcel or area near proposed ROW borings or test pits was conducted by Diversified Geophysics, Inc. prior to initiating intrusive activities. Electromagnetic induction (EMI) and ground penetrating radar (GPR) methods were used to locate sub-surface anomalies and subsurface

utilities in the proposed excavation and drilling areas. Electric, gas, sewer, water, and cable utilities were identified at each private residence, as well as utilities near ROW borings and test pits. Dig Safe New York was notified with sufficient lead time before subsurface work was conducted in ROW and individual parcels. Many residential homes had above ground electric, telephone, and cable lines which were noted when present. The location of the identified buried utility lines were marked in the field with color corresponding paint markings and on an aerial photograph for each parcel. Diversified Geophysics, Inc. provided their data and a letter report with photographs and interpretations of observed anomalies and detected utilities.

A utility clearance policy was developed to minimize the risk for a utility strike during excavation or boring activities. The geophysical survey reports were reviewed prior to advancing soil borings or excavating test pits. In addition, Arcadis field staff completed a visual inspection and considered potential hazards before selecting soil boring locations. This policy required three reliable lines of evidence that underground utilities were not present prior to ground intrusive work. The lines of evidence used included a call to Dig Safe NY for a public utility mark out, a geophysical survey, homeowner interviews, hand clearing, and existing utility maps. Due to the higher risk of utilities present in the City ROW, it was decided that borings in the ROW would require clearing with a hand auger to a depth of five feet below grade before borings could be advanced.

2.3 Soil Sampling Activities

Prior to initiating soil boring and sampling activities at each parcel, CAMP equipment was setup by the drilling or excavation subcontractor. A particulate meter and photoionization detector (PID) were used to monitor and record particulate material (PM10) and airborne VOC concentrations. CAMP measurements were recorded at fifteen (15) minute intervals from both downwind and upwind locations. Background ambient readings were recorded prior to ground intrusive work being conducted for a baseline comparison.

Soil samples were collected from test pits, borings, surface soil, and gardens. The soil borings were advanced, test pits were excavated, and soil samples were collected to delineate target fill and soil with concentrations of metals and SVOCs at concentrations greater than Residential SCOs. Soils were classified through visual observations of general color, grain size, consistency, and moisture content. Each sample was screened with a PID to evaluate the presence of VOCs. Test pit information was included on a log, which included location, a test pit ID, soil descriptions and a hand drawn cross section including soil types, fill layers, and sample locations. Information recorded on soil boring and sampling logs included location, a boring ID, soil descriptions, depth of fill, composition of fill, and sample locations.

Non-disposal sample collection equipment was decontaminated between the collection of each sample and the advancement of each boring. The excavator bucket, Macro-Core[®], and tooling was scrubbed with a phosphate-free detergent and rinsed after each test pit or boring location. Sampling tools and hardware (shovel, steel spoon, steel paint scraper) were decontaminated between processing and collecting samples from each location. The process of containerizing and storing the decontamination fluids is detailed in Section 2.5.

2.3.1 Test Pit Excavation

The test pits were excavated in accordance with work plan and any deviations from the work plan are noted in section 2.7 of the Report. Seven test pits were excavated on City of Corning ROW property,

either in the roadway or in treed lawns in the city right of way. Test pit locations are shown on Figure 4. Test pits were excavated to an approximate depth of eight feet below grade to provide a comprehensive vertical and horizontal visual detail of subsurface formations and presence of target fill. During the excavations, soil removed from the test pits was placed on poly sheeting and was screened for VOCs with a PID. Soil was sampled directly from the excavator bucket with a stainless-steel spoon, visually inspected for indications of target fill or other buried debris, and containerized in laboratory provided sampling glassware. The test pit excavations were photo-documented and physical descriptions of subsurface conditions were recorded on field log sheets. These logs are provided in Appendix A.

Several soil samples from each of the seven test pits were collected from varying depths and locations depending on the presence and location of target fill. Samples not containing target fill were analyzed for TAL metals by USEPA Methods 6010C and 7471B. Samples containing target fill or collected from soil directly below target fill were analysed for the TAL metals, TCLP metals by USEPA Methods 6010C and 7470A, and TAL SVOCs by USEPA Method 8270D.

Native soils not exhibiting evidence of target fill were staged on polyethylene sheeting adjacent to each test pit. Excavated soils showing evidence of target fill were loaded directly into a polyethylene (poly) plastic-lined trailer. The material was then transported to an approved waste storage area on City of Corning owned property to be loaded into a poly plastic lined roll off dumpster. Excavated soil without target fill was used to backfill the test pits. If needed, washed No. 2 stone was used to bring the test pits to existing grade. Final restoration of the test pits is described in Section 2.6.

2.3.2 Soil Borings

Residential parcel and City ROW soil borings were advanced using direct-push drilling methods with a track mounted Geoprobe® rig. The target termination depth for the soil borings was either eight feet or sixteen feet bgs. The first two borings advanced at each parcel were terminated at a depth of sixteen feet bgs and additional borings were typically terminated at a depth of eight feet bgs. Soil boring locations are shown on Figure 4.

Four-foot long soil cores were collected continuously from ground surface to the target depth of each boring with a Macro-Core® sampler. Upon retrieval, the acetate liner inside the Macro-Core® was cut open and staged for processing. The soil cores were visually inspected for target fill at the terminating depth, if target fill was observed an additional four-foot interval was advanced at that location. The soil was screened using a PID, visually inspected for indications of target fill and buried debris, photographed, and logged. Soil boring logs are presented in Appendix A. Subsurface information obtained from soil borings is provided in Table 1 and the analytical data is provided in Appendix B.

For ROW soil borings not impacted by target fill, samples were collected from zero to two feet below ground surface and at the one or two foot lower limit of the boring interval. For ROW soil borings that were impacted by target fill, soil samples were collected from above the target fill, within the layer of target fill (every five feet), and in the first interval below the target fill.

For residential parcel soil borings not impacted by target fill, samples were collected from zero to two feet bgs, two to four feet bgs and from one to two foot interval above the boring termination depth. For residential parcel soil borings where target fill was encountered, soil samples were collected from the soil

above the target fill, within the layer of target fill (every two feet), and in the first interval below the target fill.

Samples collected in a visually clean boring, or from a layer of soil above target fill, were analyzed only for TAL Metals. Soil samples collected within the target fill layer, or just below the target fill layer, were analyzed for TAL Metals, TCLP Metals, and TAL SVOCs.

Target fill material removed from soil borings was considered investigation-derived waste (IDW) and containerized in UN-approved 55-gallon drums and stored at a temporarily approved location (City Department of Public Works yard) until sampled for disposal. Further detail on the management of IDW is provided in Section 2.5.

2.3.2.1 Right-of-Way Soil Borings

Fourteen borings were advanced in the City of Corning ROW to provide an initial indication of the extent of target fill across OU5. These borings were advanced in front of residential parcels where owners initially did not provide the NYSDEC access to their property. The ROW borings were typically located a few feet from the edge of the roadway and drilled to a depth of 16 feet below grade (Figure 4).

Additionally, ten borings were advanced along the berm that parallels Center Way on the west side of OU5. The borings were spaced between the I-86 eastbound onramp at the northern end, to the Guthrie Corning Medical Facility located at the southern end of the berm. Borings were placed along the top of the berm to evaluate if the observed target fill in adjacent parcels extends into the berm.

Eleven borings were also advanced on top of or along the toe of the berm that borders the northern edge of OU5 between the residential neighborhood and Interstate 86. These berm borings were located between Center Way at the western end and East Pulteney Street on the eastern end. A portion of the berm was not safely accessible by the Geoprobe® rig, due to the steep slope or the number of large growth trees blocking the desired path. The on-site NYSDEC representative and the NYSDEC project manager agreed that the drilling rig could not safely ascend the berm, and that the proposed borings would not be drilled at this time. Due to the restrictive physical conditions of steep slopes and large trees blocking access, some borings were installed on the berm when conditions were favorable, while other borings were installed at the toe of the berm. The borings advanced on the berm followed the same procedure used on other ROW borings and followed the same methodology for collecting and processing subsurface samples.

2.3.2.2 Residential Soil Borings

Two to six soil borings were advanced at each of 104 residential parcels using direct-push drilling methods (Figure 4). At each boring, continuous soil samples were collected in four-foot intervals from ground surface to the final depth. Soil samples for laboratory analysis were selected using the methodology described in Section 2.3.2.

Soil boring locations were based on available data from previous borings, observations of target fill, location of utilities, and physical access for the drilling rig. Typically one boring was advanced in the front yard and a second boring was advanced in the back yard of each parcel. The first boring advanced in the front yard and the back yard at each parcel were terminated at a depth of sixteen feet. In consultation with NYSDEC, additional borings were advanced to further delineate the extent of target fill. Soil boring

locations were biased towards areas where homeowners provided any additional information regarding where target fill was historically observed. The drilling of additional borings was authorized by the on-site NYSDEC field representative. The decision was made taking into account the size of the parcel, if target fill was observed, and adjacent borings or target fill on neighbouring parcels. If target fill was observed in a boring, additional borings were advanced to horizontally delineate the extent of the target fill. These delineation borings were typically advanced to a depth of eight feet bgs unless there was evidence of target fill at or below eight feet bgs. If target fill was not observed in delineation borings, one sample was collected from the interval of zero to two feet bgs. When target fill was observed in the delineation borings, samples were collected from the target soil in two foot intervals for the complete set of analysis.

After the sampling was complete at each boring, cuttings not exhibiting evidence of a layer of target fill were backfilled into the hole in the same order they were removed. Target fill material removed from soil borings was containerized in UN-approved 55-gallon drums and characterized for subsequent disposal at a permitted landfill. Investigation-derived waste was temporarily stored at an approved location (City Department of Public Works yard). The ground surface at each boring location was restored with top soil and grass seed.

2.3.3 Surface and Garden Samples

Up to four surface soil samples were collected from just below sod or mulch at each residential parcel (Figure 4). The approximate depth of the surface samples was two to four inches below ground surface. Locations of the surface samples collected from each parcel were selected based on areas of potential for human exposure to target fill, spatial distribution within the individual parcel, any worn areas of grass where significant soil was exposed, and after review of sample locations from adjacent parcels.

Samples were collected using a shovel to cut and remove the sod and a stainless steel spoon to scrape and retrieve the soil for collection. Surface samples observed to contain target fill were analyzed for TAL metals, TCLP metals, and TAL SVOCs while samples not observed to contain target fill were analyzed for TAL metals.

Surface soil samples were also collected from vegetable gardens and near edible plants, where present. However, soil from flower beds, raised bed gardens, and potted plant gardens were not sampled. Garden samples were collected using a two foot long Macro-Core® sampler hammered by hand to a depth of twelve inches and composited as follows:

- One composite sample was sent for laboratory analysis for a garden size of fifty square feet or less.
- Two composite samples were collected for an area of fifty to five hundred square feet.
- Three composite samples were collected for an area of five hundred to two thousand square feet.

Each composite sample was made up of five to seven evenly spaced Macro-Core® collection points. In accordance with the work plan, due to the size a large garden located on Clara Street was split into eight equally measured sections. One composite sample from each section was collected and submitted for laboratory analysis. Garden soil samples were analyzed for TAL metals when no target fill was observed. Samples were analyzed for TAL Metals, TCLP Metals, and TAL SVOCs when target fill was observed. Analytical data is provided in Appendix B. Surface and garden samples were described, characterized, photographed, and logged following the same procedure described in Section 2.3.2 for soil borings.

2.4 GPS Survey and Mapping

Locations of test pits, residential borings, ROW borings, surface samples, and garden samples were recorded using a global positioning system (GPS) device with sub-meter accuracy following the completion of each boring or sampling location. The GPS data collected was used for the preparation of site maps showing the sample locations on each parcel. The location of each sample or soil boring was also handwritten on aerial maps at the time of sample collection.

2.5 Investigation-Derived Waste (IDW)

Target fill (ash, brick, glass, and slag) and soils mixed with target fill observed in soil borings or surface samples were temporarily containerized on-site in sealed five gallon buckets. Decontamination rinse water was containerized in separate sealed five gallon buckets. The five gallon buckets were routinely emptied into UN-approved fifty-five gallon drums for storage while awaiting off-site disposal. During the excavation of test pits, observed target fill was loaded into a lined trailer and transported to roll-off dumpsters for storage until picked up for off-site disposal. The full roll-off dumpsters and 55-gallon drums were temporarily stored at a City of Corning Department of Public Works yard.

IDW samples were collected for waste characterization purposes. The IDW was profiled as non-hazardous and was disposed of in accordance with federal, state, and local regulations. The roll-off dumpsters were transported off-site on September 25, 2015 and the drums were transported off-site on December 23, 2015. Waste disposal manifests are provided in Appendix C.

2.6 Restoration Following Investigation

Following the completion of sample collection at each of the test pits, the excavation contractor backfilled the test pits with excavated soil visually free of target fill and washed No. 2 stone as needed. The test pits were backfilled and compacted in lifts. Following backfilling activities, the test pits in city streets were leveled with stone awaiting asphalt replacement. The City of Corning finished the street restoration by replacing the asphalt. The test pits excavated in grass areas were brought to surface with soil, graded, and completed with grass seed.

After the boring samples were completed, removed soils not exhibiting evidence of a layer of target fill was backfilled into the borehole and compacted using a metal rod. If needed, the boring was brought to grade with hydrated bentonite chips. The ground surface at each boring location was restored to match the original surface condition, which typically involved the application of top soil and grass seed. Surface sample locations were restored by replacing the sampled soil with clean top soil and repositioning the removed sod or mulch. Garden sample locations were restored with clean native soil or top soil.

2.7 Work Plan Deviations

Occasionally, the sampling methodologies were adjusted in the field based upon a variety of factors, including field conditions and access limitations. The on-site NYSDEC representative and NYSDEC project management team were notified and involved in the decision making process with regards to the changes or deviations from the approved Work Plan. NYSDEC approval was obtained prior to implementation of these changes from the approved Work Plan.

Site Characterization Report
Corning Study Area – Offsite Expansion Area OU5

When necessary, soil borings were terminated at depths shallower than sixteen feet bgs due to Geoprobe® refusal. When refusal was encountered before the target depth, the drilling operator advanced another boring off-set a few feet from the original location in an attempt to reach the desired depth of sixteen feet. In some situations, an off-set boring was not advanced per review of refusal depth, or lack of target fill in adjacent borings, and information from nearby borings previously completed. Changes in final soil boring depth and the location and depth of additional borings were noted in the boring logs and field note books.

During the investigation, the drilling contractor lost several Macro-Core® samplers, acetate liners, and tooling where sub-surface conditions prevented complete recovery of the sampler. These items were abandoned in place. This occurred in rocky soil formations often at depths between twelve and sixteen feet bgs. Due to the loss of drilling hardware, a change in drilling protocol was approved by the NYSDEC project manager. Where sub-surface conditions made it difficult to advance borings beyond twelve feet bgs in visually clean soils, the boring was terminated at twelve feet bgs as a precaution.

In a few situations, more than the planned two to six borings were advanced on a single parcel. As requested by NYSDEC, additional delineation borings were used to define the extent of target fill layers observed at the parcel or neighboring parcels. These additional borings were advanced to fill in data gaps, delineate target fill, or provide additional information near the boundary of a parcel where access was not granted.

Soil borings along Center Way berm and Interstate 86 berm were added to the scope of the Site Characterization to further delineate the extent of target fill.

3 DATA VALIDATION

In accordance with the Work Plan, laboratory analytical data produced during the Site Characterization was validated by a third-party data validator in accordance with DER-10 Appendix 2B Data Usability Summary Report requirements. Quality assurance/quality control (QA/QC) samples (duplicate, matrix spike, matrix spike duplicate, and field blank samples) were collected to support the data validation activities. Groups of samples were split up into numbered sample delivery groups (SDG-1, SDG-2, etc.). A matrix spike/matrix spike duplicate (MS/MSD), duplicate soil sample, and a field blank were analyzed in each sample delivery group. The field blank was collected from running distilled water over the decontaminated sampling tools or equipment.

The Data Usability Summary Reports (DUSRs) are included in Appendix D. Sample processing was conducted in compliance with the analytical protocol requirements and quality criteria. In general, the laboratory reported results were usable as reported or with minor qualification with a few exceptions as discussed in the DUSRs.

4 NATURE AND EXTENT OF CONTAMINANTS

4.1 Field & Subsurface Observations

OU5 is comprised of privately owned lots with residential buildings, grass lawns and gardens. Additionally, asphalt paved roads, driveways, and concrete sidewalks traverse OU5. Landscaped earthen berms, covered with grass, trees, and shrubs line the northern and western boundaries of OU5. OU5, except for the berms, is generally flat with a slight slope toward the Chemung River to the south.

As shown in the soil boring logs in Appendix A, overburden materials observed during the Site Characterization were generally composed of sandy silt and silty sand overlying sand and gravel river/flood plain deposits. Few clay and silt stratum were observed above the sand and gravel. Target fill was identified in many of the borings directly below the sandy silt and above the sand and gravel. Bedrock was not encountered during the Site Characterization. Six cross sections have been prepared to illustrate the subsurface conditions and extent of target fill at OU5. Cross sections are provided in Appendix E.

4.2 Target Fill Observations

The composition of target fill observed at each parcel varied slightly. However, the most commonly observed materials in the target fill were glass fragments of various color, ash, slag pieces of varying size, and brick fragments. Other items observed in the target fill included ceramics, metal fragments, plastic fragments, and wooden lumber. Target fill was often observed in layers of different materials.

Six cross sections were prepared to aid in assessing the vertical and horizontal extent of target fill across OU5. The cross-sections and overview map are included in Appendix E. Areas of target fill are shown on Figure 5. There were 50 parcels observed to contain layers of target fill greater than one inch, while there were 30 additional parcels with trace amounts of target fill observed. Target fill was not observed at 24 parcels. Property owners of four parcels did not provide access for investigation activities.

There were two areas where layers of target fill up to 7 feet thick were observed. The first area, containing 20 parcels, is bounded by Pyrex Street, South Place, Center Way, and East Pulteney Street. Layers were thickest around the East Pulteney and Pyrex Street intersection and tapered out to the south toward the Guthrie Medical Center. Target fill was observed at all twenty parcels. All but one of these parcels had target fill layers greater than one inch. The second area is located at the north end of OU5 adjacent to the I-86 corridor between Center Way and James Street. Layers of target fill were observed to be the thickest and most prevalent in the four to six parcels closest to the I-86 corridor. Target fill layers greater than one inch thick were observed at approximately half of the parcels between Center Way and James Street. Target fill was sporadically observed at the remaining parcels in OU5 outside of the two areas described above.

4.3 Analytical Results

Analytical laboratory data packages for samples collected during the Site Characterization are provided in Appendix F. Laboratory analytical results are summarized in Tables 3 through 6. These tables show exceedances of specific contaminants categorized by location, parcel IDs, depth bgs, and analyte. A summary of the number of samples with concentrations exceeding the respective Residential SCOs and TCLP regulatory standards is also provided in these tables.

Concentrations exceeding Residential SCOs for metals and SVOCs and the TCLP regulatory values are noted by location and sample depth interval in Table 3. Residential SCO and TCLP exceedances were listed in relation to individual parcels and property addresses. Borings where layers of fill or trace amounts of target fill were observed are presented by color in Table 4. As shown in Table 4, metals and/or SVOC concentrations exceeding Residential SCOs were detected in soil samples from 56 of the 80 parcels where any amount of target fill was observed and from 7 of 24 parcels where target fill was not observed. Most of these seven parcels bordered a property with observed trace fill or target fill.

As discussed above in section 4.2 the two main areas of observed fill also had a higher concentration of parcels with at least one Residential SCO exceedance. The parcels bounded by East Pulteney street and North Place had the largest number of parcels with exceedances from the 0-2' bgs, 2-4'bgs, and the greater than 4' bgs sample intervals. The second area in the northwest section of OU5 adjacent to the I-86 corridor had a large number of parcels with exceedances from the 2-4' bgs sample interval with sporadic Residential SCO exceedances throughout the remaining intervals and OU5 site.

The number of properties with SVOC and metal results that were greater than Residential SCOs or TCLP regulatory values by depth interval and analyte are summarized in Table 5. The number of properties and samples where SVOCs and metals concentrations exceeded Residential SCOs and TCLP regulatory values are summarized in Table 6. SVOCs that most frequently exceeded Residential SCOs were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene. Metals that most frequently exceeded Residential SCOs were arsenic, barium, cadmium, chromium, lead, and mercury.

Horizontal and vertical distribution of metals and/or SVOC concentrations exceeding Residential SCOs are presented on Figures 6 through 9. The figures show a consistent grouping of properties with exceedances across the different sample depth intervals. A majority of soil samples with concentrations greater than Residential SCOs are from ground surface to four feet bgs. There are 35 parcels and 2 ROW locations where surface soil and garden soil sample concentrations exceed Residential SCOs (Figure 6). The 0-2' bgs sample interval (35 parcels and 7 ROW locations) and the 2-4' bgs sample interval (33 parcels and 8 ROW locations) had a similar number of parcels with at least one sample exceeding Residential SCOs (Figures 7 and 8). The greater than 4' bgs sample interval (28 parcels and 7 ROW locations) had the least number of parcels with a Residential SCO exceedance (Figure 9). There were only four parcels that has at least one Residential SCO exceedance in all four depth intervals.

Soil samples with metals concentrations exceeding corresponding TCLP regulatory values were collected from only 11 parcels (Table 4). Seven of these parcels are located in the northern part of the site adjacent to the I-86 corridor. As shown on Table 5 the 2-4' bgs depth interval has the most TCLP exceedances. Metals that most frequently exceeded TCLP regulations were cadmium and lead (Table 6).

Site Characterization Report
Corning Study Area – Offsite Expansion Area OU5

The analytical data for samples collected from the Center Way borings, City of Corning ROW borings and test pits, and State ROW I-86 borings are provided in Appendices I and J. In general, the analytical data and observations of target fill for the ROW test pits (ROW-T1 through T7) and the ROW borings along Center Way (CEN-B2 through B13), I86 corridor (I86-B1 through B3 and I86-B13) and within the residential area (ROW-B1 through B14) are consistent with results from the adjacent parcels in those areas.

5 CONCLUSIONS

Layers of glass, ash, slag, and brick fill were observed in varying thicknesses throughout most of OU5. Two main areas of OU5, described in Section 4.2 as the parcels located to the southwest of the East Pulteney Street and Pyrex Street intersection and the parcels along the I-86 corridor at the north end of OU5, contained the thickest layers of the target fill. Exceedances of Residential SCOs for SVOCs and several heavy metals were detected in soil sampled from the ground surface to depths up to sixteen feet bgs. The highest concentrations of SVOCs and metals coincided with the areas of extensive fill. Assessment of visual observations and laboratory results suggests that human exposure to target fill and/or soil with concentrations greater than residential SCOs is possible during digging or excavation activities at most of the properties in OU5.

6 REFERENCES

ARCADIS 2015. Site Characterization Work Plan, Corning, New York.

FEMA 2002. Federal Emergency Management Agency, Firm Flood Insurance Rate Map, City of Corning, New York. 2002.

NYSDEC 2010. Draft DER-10 Technical Guidance for Site Investigation and Remediation. May 2010.

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NYSDEC 2015. Study Area – NYSDEC/NYSDOH Questions and Answers Fact Sheet, Corning NY. March 2015.

NYSDEC 2015. Work Assignment Approval Letter No. D007618-32. Corning NY. August 2015.

Weston 2014. Study Area Characterization Work Plan, Corning NY.

FIGURES



Path: G:\GISMOD\00266427_0000\MXDs\Site Location.mxd Date Saved: 4/28/2016 12:21:19 PM



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



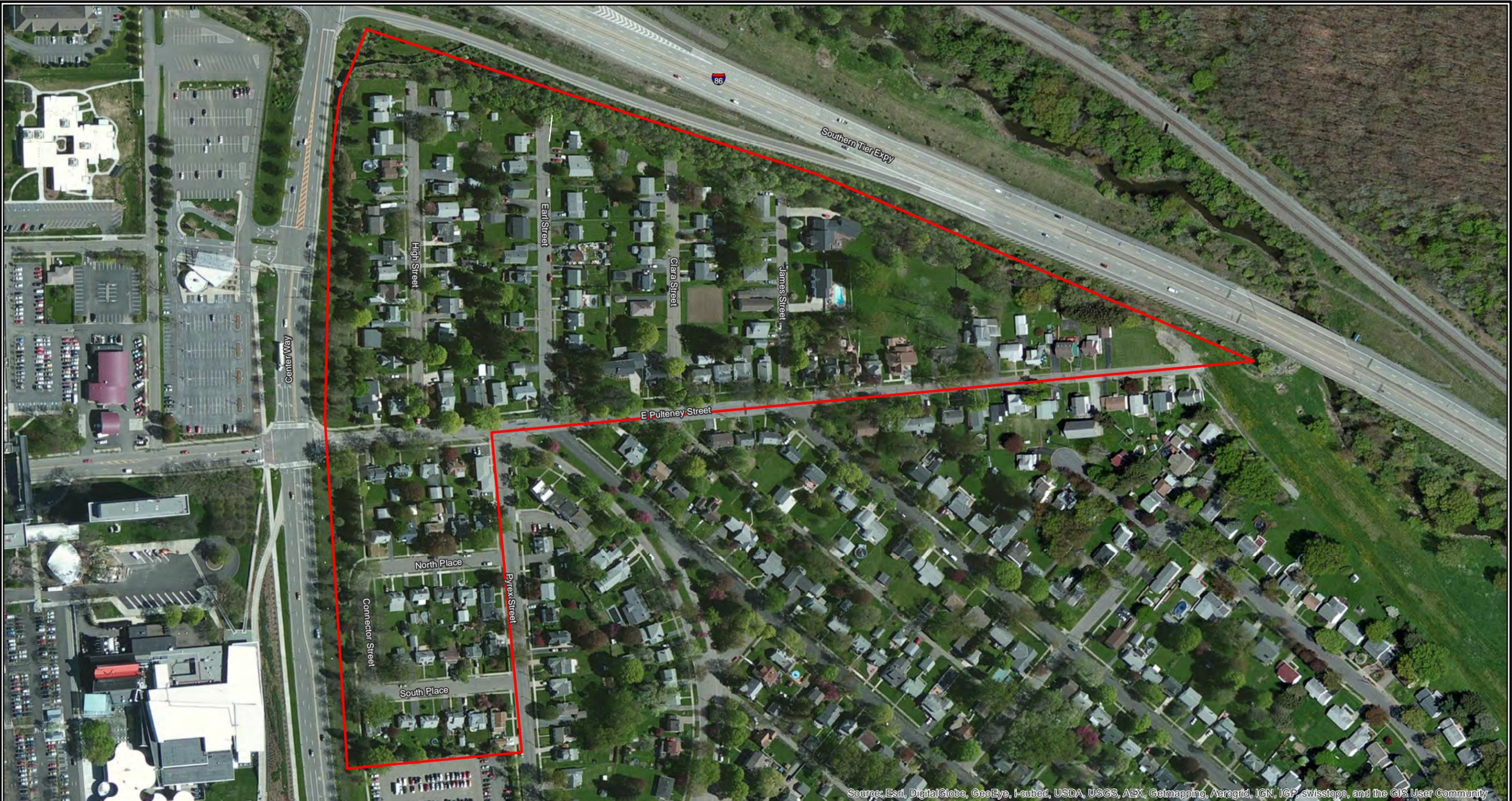
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

SITE LOCATION

- Legend**
- Study Area - Operable Units 1 through 4
 - Operable Unit 5 Expansion Area - Approximate Boundary



FIGURE
1



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Legend

 Operable Unit 5 Expansion Area - Approximate Boundary

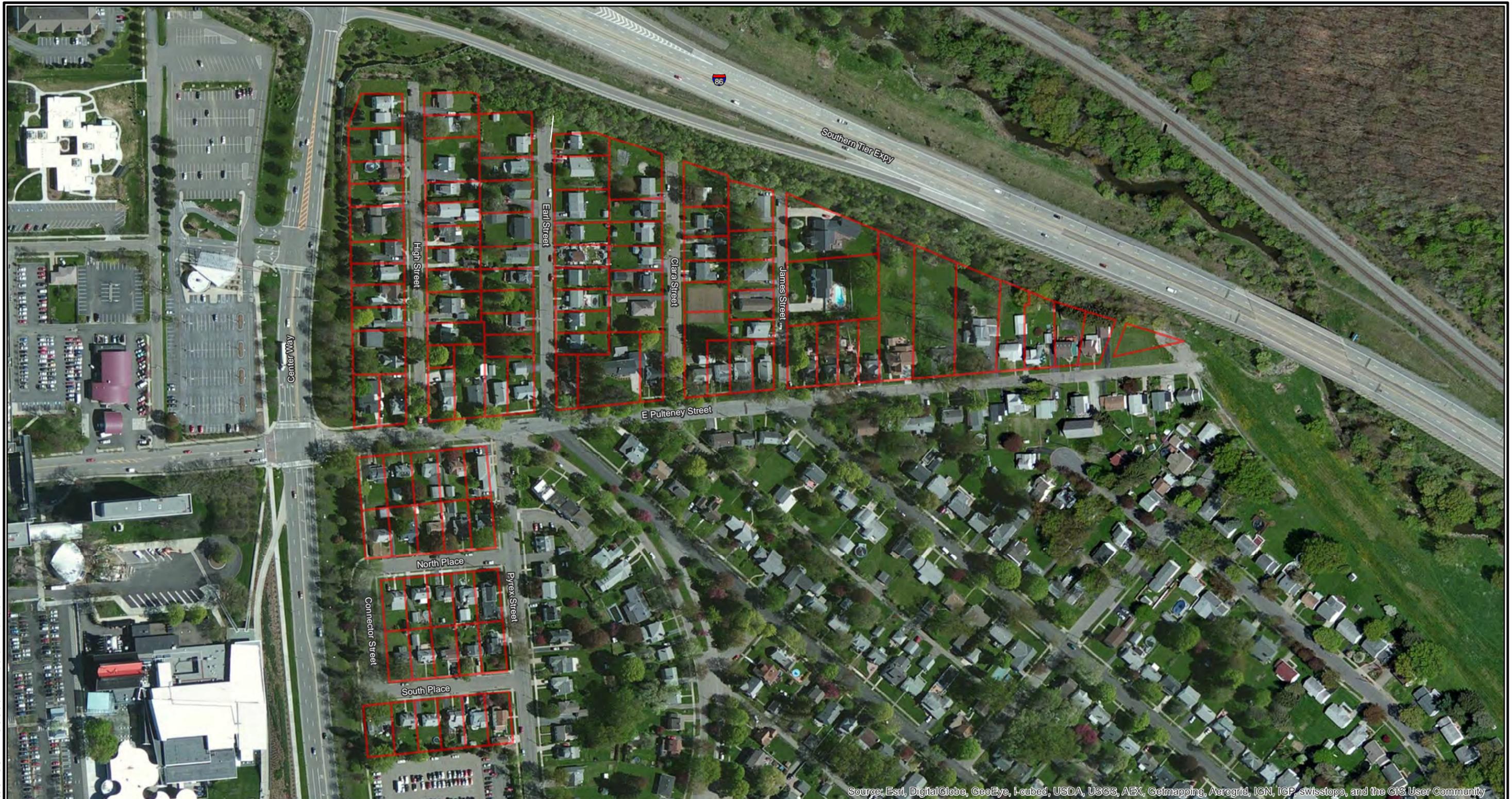


NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION
 APPROXIMATE SITE BOUNDARY
 OPERABLE UNIT 5
 EXPANSION AREA



FIGURE

2



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



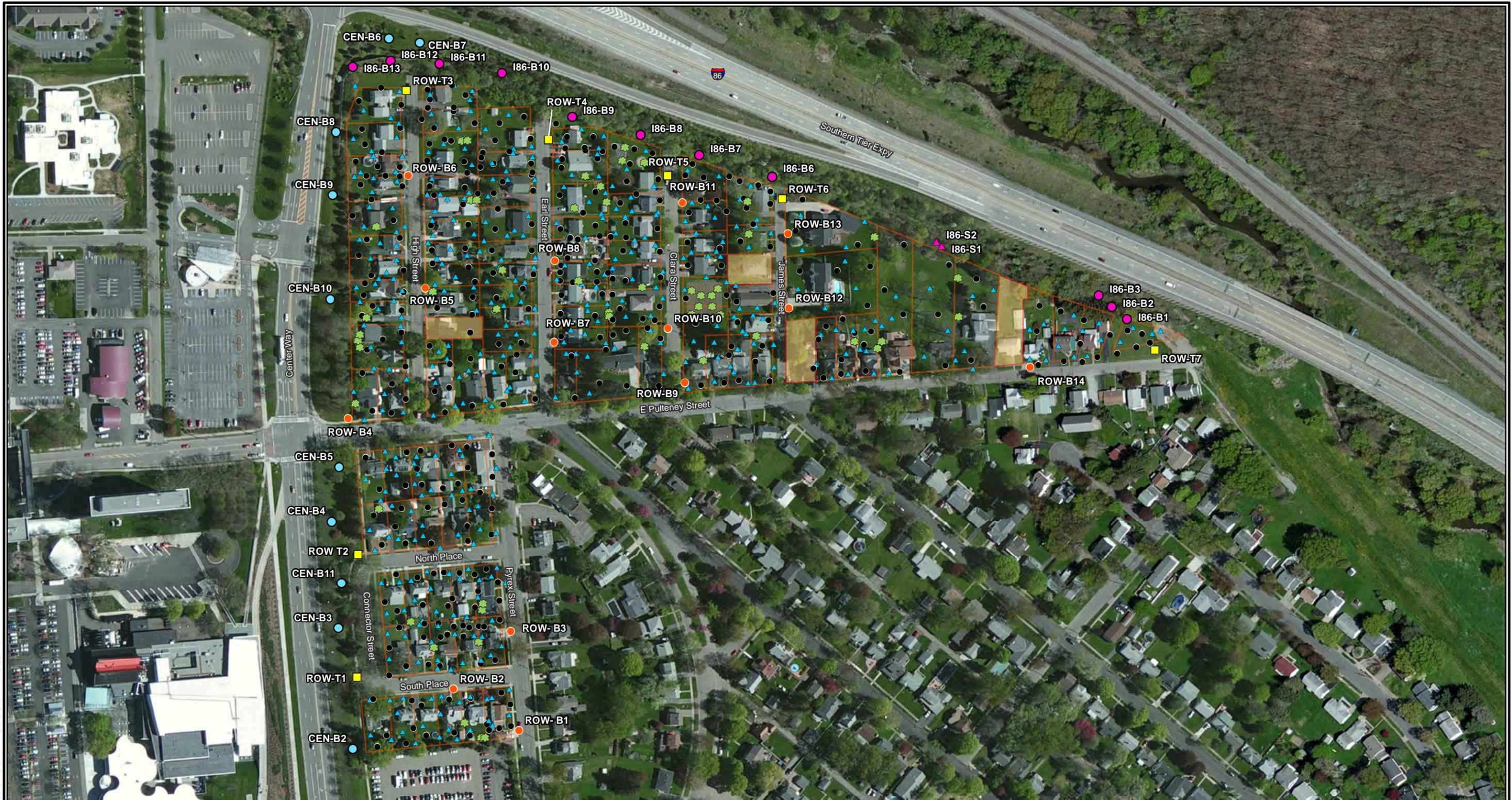
Legend
 Tax Parcel Boundary



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

TAX PARCEL BOUNDARIES

| | | |
|--|---|--------------------|
| | Design & Consultancy for natural and built assets | FIGURE 3 |
|--|---|--------------------|



Legend

- Subsurface Soil Sample
- Garden Soil Sample
- ▲ Surface Soil Sample
- Right of Way Soil Boring
- Right of Way Test Pit
- Center Way Berm Boring
- I-86 Corridor Soil Boring
- ▲ Composite Soil Sample
- Property Completed
- No Response/No Access to Property

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

SAMPLING LOCATIONS

FIGURE
4



Legend

- No Fill Identified
- Trace Fill
- Target Fill layer >1"
- No Response/No Access to Property

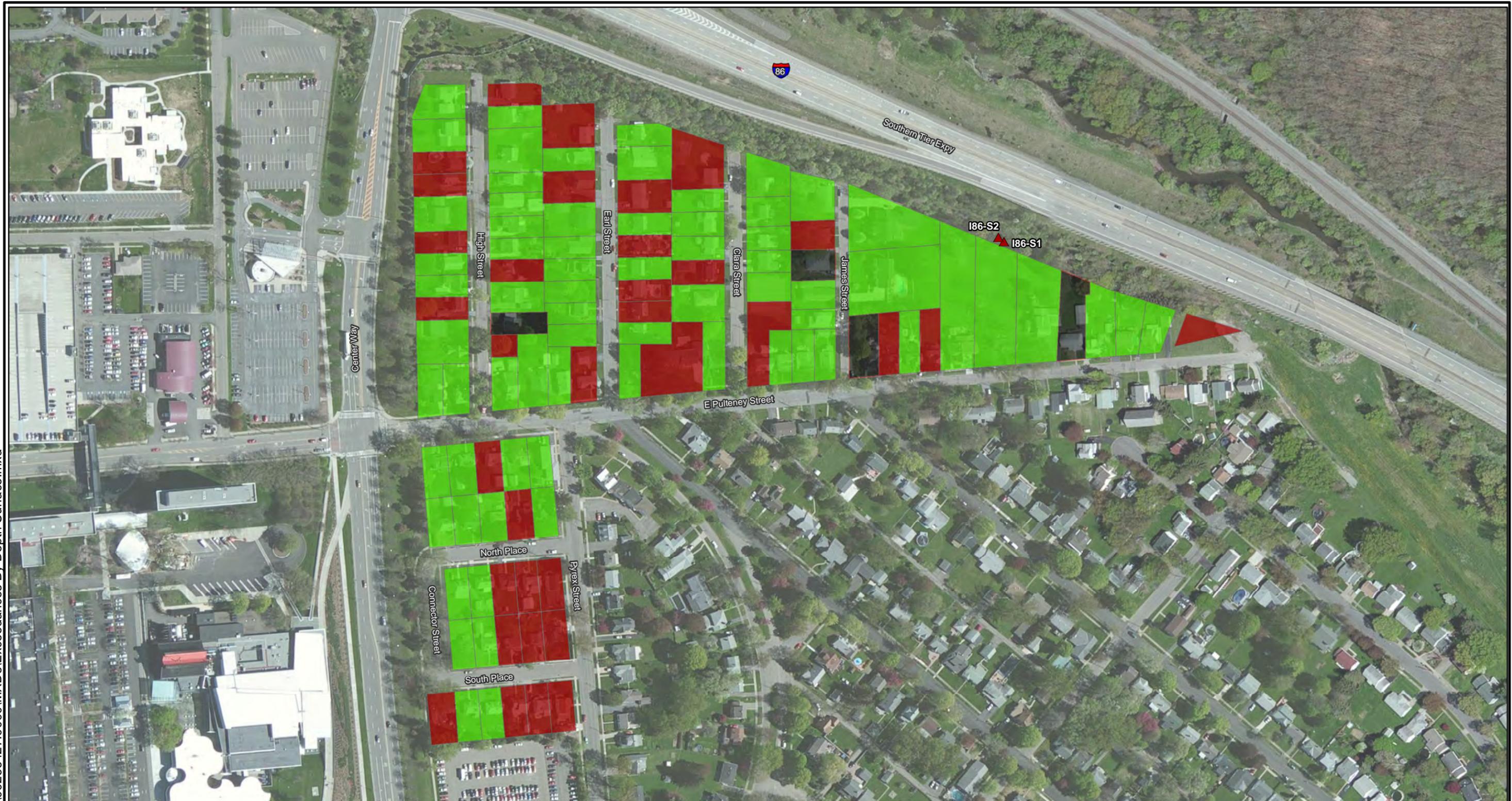
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

PRESENCE OF FILL BY PROPERTY





- Legend**
Exceedances of RSCOs in Surface Soil and/or Garden Soil Sample
- Yes
 - No
 - No Access to Property
- Surface Soil Sample**
- ▲ Yes

Notes:

For Boring Locations: A "No" symbol is returned for locations with either "no exceedance" or "no sample collected" at that particular depth. Exceedances represent data greater than the Residential Soil Cleanup Objectives (RSCOs)

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

EXCEEDANCES OF RSCOs IN SURFACE SOIL AND/OR GARDEN SOIL SAMPLES



FIGURE

6



Legend
Exceedances of RSCOs in 0-2 Feet Interval Below Ground Surface (BGS) Soil Sample

| | | |
|---|---|---|
| ■ No | ● No | ■ No |
| ■ Yes | ● Yes | ■ Yes |
| ■ No Access to Property | | |

Soil Boring Test Pit

Notes:
 For Boring Locations: A "No" symbol is returned for locations with either "no exceedance" or "no sample collected" at that particular depth. Exceedances represent data greater than the Residential Soil Cleanup Objectives (RSCOs)

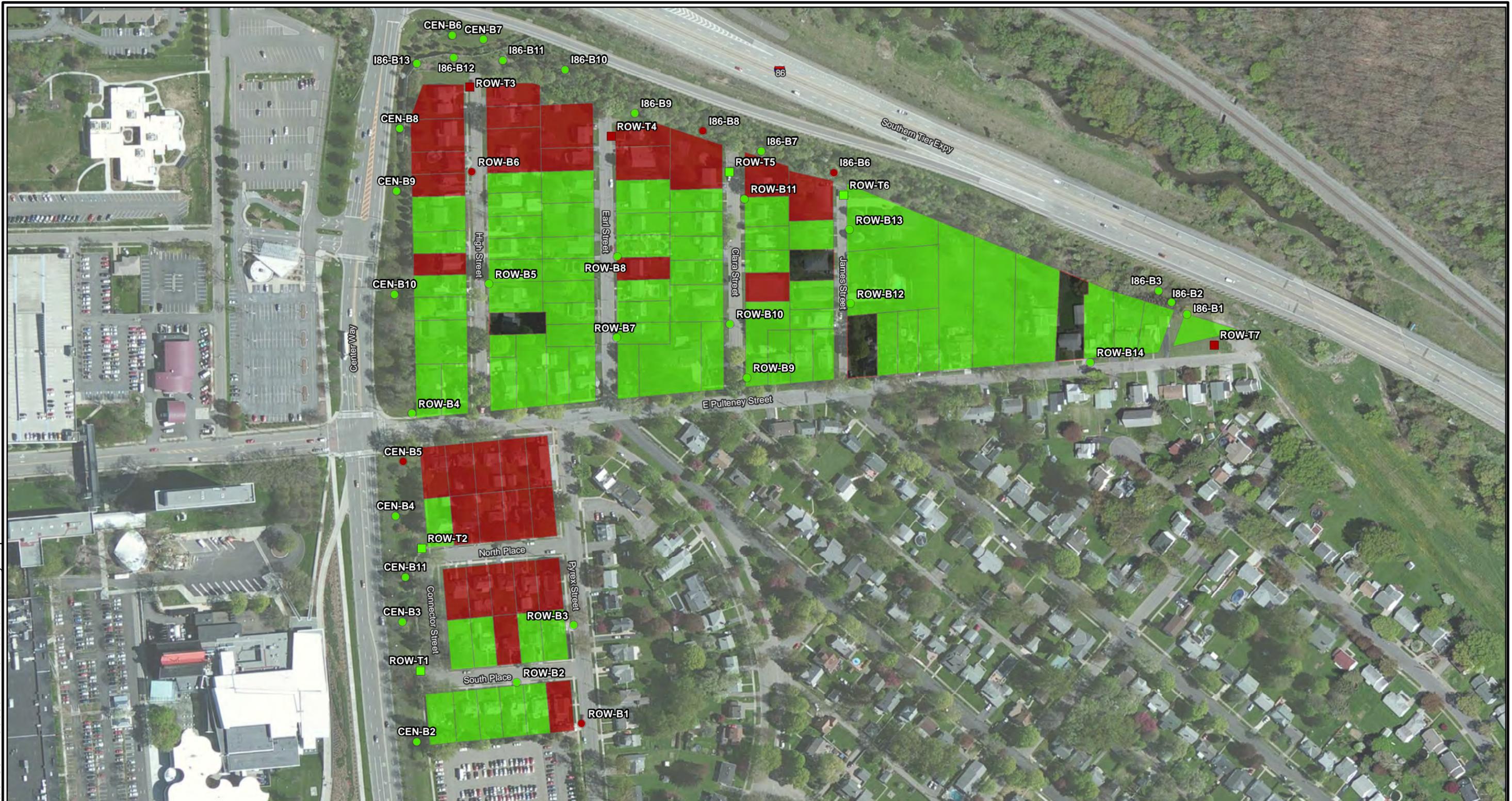
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 CORNING SITE #851046
 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

EXCEEDANCES OF RSCOs IN 0-2 FEET BGS SOIL SAMPLES





Legend
Exceedances of RSCOs in 2-4 Feet Below Ground Surface (BGS) Soil Sample

| | | |
|---|--|---|
| Yes | No | No Access to Property |
|---|--|---|

Soil Boring Test Pit

| | |
|--|--|
| No | Yes |
| Yes | No |

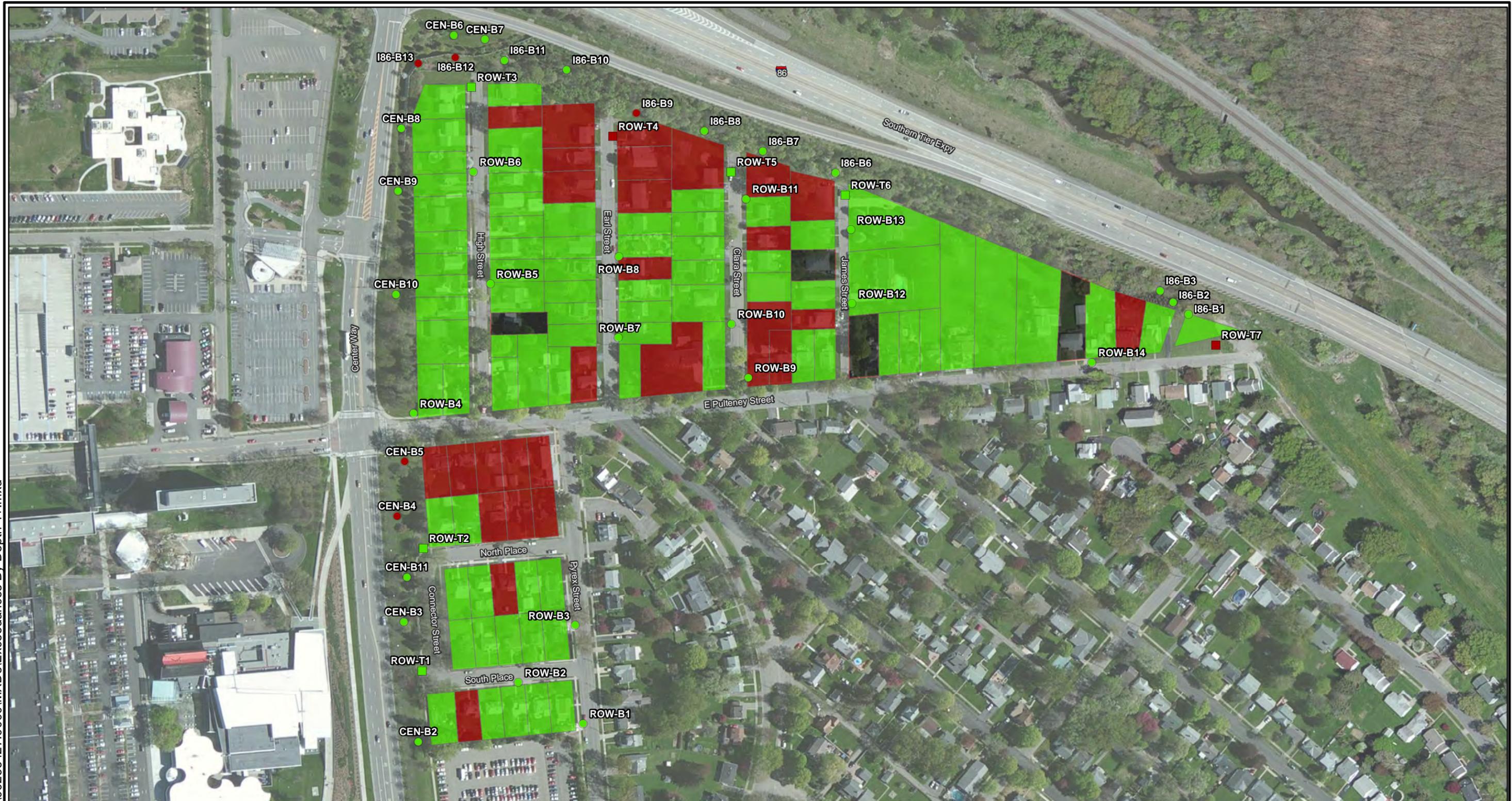
Notes:
 For Boring Locations: A "No" symbol is returned for locations with either "no exceedance" or "no sample collected" at that particular depth. Exceedances represent data greater than the Residential Soil Cleanup Objectives (RSCOs)

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SITE CHARACTERIZATION

EXCEEDANCES OF RSCOs IN 2-4 FEET BGS SOIL SAMPLES





- Legend**
Exceedances of RSCOs in 4+ Feet Below Ground Surface (BGS) Soil Sample
- Yes
 - No
 - No Access to Property
- Soil Boring Test Pit**
- No
 - Yes
 - No
 - Yes

Notes:
 For Boring Locations: A "No" symbol is returned for locations with either "no exceedance" or "no sample collected" at that particular depth. Exceedances represent data greater than the Residential Soil Cleanup Objectives (RSCOs)

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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 OPERABLE UNIT 5 - EXPANSION AREA
SITE CHARACTERIZATION

EXCEEDANCES OF RSCOs IN 4+ FEET BGS SOIL SAMPLES

Design & Construction for natural and built assets

FIGURE
9

TABLES



Table 1. Summary of Fill in Soil Borings
 Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|-----------|------------------------------|-----------------------------|--|---|--|---|
| 001 | 001-B1 | No | No | -- | -- | -- | -- |
| | 001-B2 | No | No | -- | -- | -- | -- |
| | 001-B3 | Yes | -- | 8 | 14 | 6 | Slag. |
| | | Yes | -- | 38 | 60 | 22 | Glass, furnace brick, foundry sand. |
| | 001-B4 | No | No | -- | -- | -- | -- |
| | 001-B5 | Yes | -- | 18 | 21 | 3 | Glass, concrete. |
| Yes | | -- | 36 | 40 | 4 | Glass, white sand. | |
| Yes | | -- | 74 | 79 | 5 | Ash, slag mixed in with soil | |
| 002 | 002-B1 | Yes | -- | 10.5 | 48 | 37.5 | Ash, slag, brick. |
| | 002-B2 | Yes | -- | 8.7 | 35 | 26.3 | Black ash, slag, glass. |
| | 002-B3 | Yes | -- | 9 | 23 | 14 | Black ash, slag, brick, glass. |
| 003 | 003-B1 | No | No | -- | -- | -- | -- |
| | 003-B2 | No | Yes | 9 | 10 | 1 | Gray brick, slag. |
| | | Yes | -- | 12 | 24 | 12 | Ash, glass, slag mixed in with soil |
| | | Yes | -- | 31.5 | 39 | 7.5 | Glass, ash. |
| | 003-B4 | No | No | -- | -- | -- | -- |
| | | No | Yes | 12 | 12.1 | 0.1 | Coal. |
| | | No | Yes | 45.5 | 45.6 | 0.1 | Brick. |
| 003-B5 | Yes | -- | 48 | 72 | 24 | Brick, glass, slag, ash, concrete mixed in with soil | |
| | Yes | -- | 0 | 7.8 | 7.8 | Ash, coal. | |
| 004 | 004-B1 | No | No | -- | -- | -- | -- |
| | 004-B2 | No | No | -- | -- | -- | -- |
| 005 | 005-B1 | No | No | -- | -- | -- | -- |
| | 005-B2 | No | Yes | 4 | 4.1 | 0.1 | Slag. |
| | | No | Yes | 12 | 12.1 | 0.1 | Ash. |
| | 005-B3 | No | Yes | 9 | 9.1 | 0.1 | Coal, ash. |
| 006 | 006-B1 | No | No | -- | -- | -- | -- |
| | 006-B2 | No | No | -- | -- | -- | -- |
| | 006-B3 | No | No | -- | -- | -- | -- |
| | 006-B4 | No | Yes | 23.5 | 24.5 | 1 | Glass, ash. |
| 007 | 007-B1 | No | Yes | 11 | 11.1 | 0.1 | Furnace brick. |
| | 007-B1 | Yes | -- | 30.4 | 33.6 | 3.2 | Ash, slag. |
| | 007-B2 | No | No | -- | -- | -- | -- |
| | 007-B3 | No | No | -- | -- | -- | -- |
| | 007-B4 | No | No | -- | -- | -- | -- |
| 008 | 008-B1 | No | Yes | 8 | 8.1 | 0.1 | Brick, slag. |
| | 008-B2 | No | No | -- | -- | -- | -- |
| | 008-B3 | No | Yes | 15.6 | 15.7 | 0.1 | Glass. |
| | | No | Yes | 21 | 21.1 | 0.1 | Brick. |
| | 008-B4 | Yes | -- | 6 | 17 | 11 | Ash, slag mixed in with soil |
| 009 | 009-B1 | Yes | -- | 18.5 | 35 | 16.5 | Glass, ash, sand, slag. |
| | 009-B2 | No | No | -- | -- | -- | -- |
| | 009-B3 | No | Yes | 6 | 6.1 | 0.1 | Coal. |
| | | No | Yes | 3 | 3.1 | 0.1 | Coal, slag. |
| | | Yes | -- | 11 | 14 | 3 | Glass, slag, ash. |
| 010 | 010-B1 | Yes | -- | 27.2 | 30.5 | 3.3 | Coal, slag. |
| | 010-B1 | No | Yes | 12 | 19 | 7 | Trace amounts of slag and coal. |
| | 010-B2 | No | No | -- | -- | -- | -- |
| 011 | 011-B1 | No | No | -- | -- | -- | -- |
| | 011-B2 | No | No | -- | -- | -- | -- |
| | 011-B3 | No | No | -- | -- | -- | -- |
| 012 | 012-B1 | Yes | -- | 4 | 10 | 6 | Ash, slag. |
| | 012-B2 | Yes | -- | 5 | 7 | 2 | Glass, slag. |
| | 012-B3 | No | No | -- | -- | -- | -- |
| | 012-B4 | No | No | -- | -- | -- | -- |
| 013 | 013-B1 | No | No | -- | -- | -- | -- |
| | 013-B2 | No | No | -- | -- | -- | -- |
| 014 | 014-B1 | No | No | -- | -- | -- | -- |
| | 014-B2 | No | No | -- | -- | -- | -- |
| 015 | 015-B1 | No | No | -- | -- | -- | -- |
| | 015-B2 | No | No | -- | -- | -- | -- |
| 016 | 016-B1 | Yes | -- | 21.6 | 66 | 44.4 | Ash, coal, glass fragments some layers mixed with soil. |
| | | Yes | -- | 6.5 | 7.8 | 1.3 | Coal. |
| | 016-B2 | Yes | -- | 41.5 | 50 | 8.5 | Glass, ash. |
| | | Yes | -- | 32.5 | 62.5 | 30 | Glass, white sand, red and pink fibrous material. |
| | 016-B4 | Yes | -- | 28.8 | 54 | 25.2 | Glass, sand, brick. |
| | | Yes | -- | 3.0 | 4.5 | 1.5 | Coal, slag. |
| 017 | 017-B1 | Yes | -- | 36.4 | 39.2 | 2.8 | Coal, slag. |
| | | No | Yes | 9 | 9.1 | 0.1 | Brick. |
| | | No | Yes | 18 | 18.1 | 0.1 | Glass, brick, slag, ash some layers mixed with soil. |
| | 017-B2 | Yes | -- | 24 | 48 | 24 | Glass, brick, slag, ash some layers mixed with soil. |
| | 017-B3 | Yes | -- | 22 | 55.5 | 33.5 | Ash, slag mixed in with soil. |
| | 017-B4 | No | No | -- | -- | -- | -- |
| 018 | 017-B5 | No | No | -- | -- | -- | -- |
| | 018-B1 | Yes | -- | 8 | 24 | 16 | Ash, slag, glass. |
| | 018-B1 | No | No | -- | -- | -- | -- |
| 018 | 018-B2 | No | No | -- | -- | -- | -- |
| | 018-B3 | No | No | -- | -- | -- | -- |

Table 1. Summary of Fill in Soil Borings
 Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|------------------------------|------------------------------|-----------------------------|--|---|------------------------------|--|
| 019 | 019-B1 | Yes | -- | 15.4 | 81.6 | 66.2 | Ash, slag, glass. |
| | 019-B2 | Yes | -- | 14 | 100 | 86 | Black ash, slag, brick, glass. |
| | 019-B3 | Yes | -- | 11.4 | 62 | 50.6 | Ash, slag, glass. |
| 020 | 020-B1 | No | No | -- | -- | -- | -- |
| | 020-B2 | No | No | -- | -- | -- | -- |
| | 020-B3 | No | Yes | 14.5 | 15.5 | 1 | Charcoal. |
| 021 | 021-B1 | Yes | -- | 7.4 | 51 | 43.6 | Grey and black ash and slag, glass. |
| | 021-B2 | Yes | -- | 9.6 | 96 | 86.4 | Ash, slag, glass, brick mixed in with soil. |
| | 021-B3 | Yes | -- | 12.6 | 32.8 | 20.2 | |
| | | Yes | -- | 40.4 | 81.4 | 41 | Black and grey ash, slag, glass. |
| 022 | 022-B1 | No | No | -- | -- | -- | -- |
| | 022-B2 | No | No | -- | -- | -- | -- |
| | 022-B3 | Yes | -- | 12 | 24 | 12 | slag glass mixed in with soil. |
| | 022-B4 | Yes | -- | 12 | 24 | 12 | Ash, slag. |
| 023 | 023-B1 | No | Yes | 17.5 | 17.6 | 0.1 | Coal |
| | 023-B2 | No | Yes | 32 | 32.1 | 0.1 | ash |
| | | Yes | -- | 10 | 12 | 2 | coal and white furnace brick. |
| | | Yes | -- | 14 | 23 | 9 | Coal mixed in with soil |
| | 023-B3 | No | Yes | 7 | 7.5 | 0.5 | Slag, coal. |
| | | No | Yes | 20 | 20.5 | 0.5 | Coal. |
| 024 | 024-B1 | Yes | -- | 6.4 | 62 | 55.6 | Black ash and slag, glass, brick. |
| | 024-B2 | Yes | -- | 15 | 45 | 30 | Ash, glass, slag, brick. |
| | 024-B3 | Yes | -- | 6 | 18.5 | 12.5 | Ash, slag. |
| | 024-B4 | Yes | -- | 8 | 37.5 | 29.5 | Ash, slag, glass. |
| 025 | 025-B1 | No | No | -- | -- | -- | -- |
| | 025-B2 | No | No | -- | -- | -- | -- |
| | 025-B3 | No | No | -- | -- | -- | -- |
| 026 | 026-B1 | No | No | -- | -- | -- | -- |
| | 026-B2 | No | No | -- | -- | -- | -- |
| 027 | 027-B1 | Yes | -- | 9.2 | 32.5 | 23.3 | Asphalt, brick, ash, slag mixed in with soil. |
| | 027-B2 | Yes | -- | 9.3 | 35 | 25.7 | Ash, slag, coal mixed in with soil. |
| | 027-B3 | Yes | -- | 9 | 37.5 | 28.5 | Slag, coal, brick. |
| | 027-B4 | Yes | -- | 15.3 | 90.5 | 75.2 | Glass, ash, foundry sand, wood, furnace brick coal, 'rubber gasket'. |
| | 027-B5 | Yes | -- | 6 | 50 | 44 | Ash, slag, sand. |
| | 027-B6 | Yes | -- | 6 | 28.5 | 22.5 | Ash, slag, coal. |
| | 027-B7 | No | Yes | 11.5 | 15 | 3.5 | Trace amounts of coal, ash. |
| 028 | 028-B1 | No | No | -- | -- | -- | -- |
| | 028-B2 | No | No | -- | -- | -- | -- |
| | 028-B3 | No | No | -- | -- | -- | -- |
| 029 | 029-B1 | Yes | -- | 14 | 28.2 | 14.2 | Glass, rust, ash, slag. |
| | 029-B2 | No | No | -- | -- | -- | -- |
| | 029-B3 | Yes | -- | 0 | 34 | 34 | Ash, slag, brick. |
| 030 | 030-B1 | No | Yes | 17.7 | 17.8 | 0.1 | Slag. |
| | 030-B2 | No | No | -- | -- | -- | -- |
| | 030-B3 | No | Yes | 48 | 51 | 3 | Charcoal. |
| | 030-B4 | Yes | -- | 25 | 39.2 | 14.2 | Slag mixed in with soil. |
| | | Yes | -- | 75 | 77 | 2 | Ash, slag. |
| 030-B5 | No | No | -- | -- | -- | -- | |
| 031 | 031-B1 | Yes | -- | 14 | 55.7 | 41.7 | Black and grey ash and slag, glass. |
| | 031-B2 | Yes | -- | 9 | 45 | 36 | Dark grey, ash, slag, glass. |
| 032 | 032-B1 | No | No | -- | -- | -- | -- |
| | 032-B2 | Yes | -- | 7 | 21 | 14 | Ash, slag, brick. |
| | 032-B3 | No | No | -- | -- | -- | -- |
| | 032-B4 | Yes | -- | 16 | 24 | 8 | Grey and black ash and slag. |
| | 032-B5 | Yes | -- | 13 | 28.3 | 15.3 | Black ash, glass, slag, brick. |
| 033 | -- PN 033 does not exist. -- | | | | | | |
| 034 | 034-B1 | No | Yes | 3.8 | 18 | 14.2 | trace amounts of Ash |
| | | Yes | -- | 18 | 55 | 37 | Ash and slag, ceramics |
| | 034-B2 | Yes | -- | 8 | 67 | 59 | Brick, black ash, slag, glass. |
| 034-B3 | Yes | -- | 9.5 | 90 | 80.5 | Concrete, grey ash and slag. | |
| 035 | 035-B1 | Yes | -- | 7 | 50.5 | 43.5 | Ash, slag. |
| | 035-B2 | Yes | -- | 33 | 48 | 15 | Black ash, slag, glass. |
| | | Yes | -- | 10.3 | 12 | 1.7 | Slag. |
| | | No | Yes | 17 | 17.1 | 0.1 | Coal, slag. |
| | | Yes | -- | 46 | 78 | 32 | Ash, brick, slag, glass. |
| 036 | 036-B1 | No | No | -- | -- | -- | -- |
| | 036-B2 | No | Yes | 13.7 | 18 | 4.3 | Coal, glass. |
| | 036-B3 | No | No | -- | -- | -- | -- |
| 037 | 037-B1 | No | No | -- | -- | -- | -- |
| | 037-B2 | No | No | -- | -- | -- | -- |
| | 037-B3 | No | No | -- | -- | -- | -- |

Table 1. Summary of Fill in Soil Borings
Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|---------------------------------------|------------------------------|-----------------------------|--|---|----------------------------|---|
| 038 | 038-B1 | No | No | -- | -- | -- | -- |
| | 038-B2 | No | No | -- | -- | -- | -- |
| 039 | 039-B1 | No | No | -- | -- | -- | -- |
| | 039-B2 | No | No | -- | -- | -- | -- |
| 040 | 040-B1 | No | No | -- | -- | -- | -- |
| | 040-B2 | No | No | -- | -- | -- | -- |
| | 040-B3 | No | No | -- | -- | -- | -- |
| 041 | 041-B1 | No | No | -- | -- | -- | -- |
| | 041-B2 | No | No | -- | -- | -- | -- |
| | 041-B3 | No | No | -- | -- | -- | -- |
| 042 | 042-B1 | No | Yes | 2.5 | 2.6 | 0.1 | Trace brick. |
| | | No | Yes | 7.5 | 7.6 | 0.1 | Trace coal. |
| | 042-B2 | No | No | -- | -- | -- | -- |
| | 042-B3 | No | No | -- | -- | -- | -- |
| 043 | 043-B1 | No | No | -- | -- | -- | -- |
| | 043-B2 | No | No | -- | -- | -- | -- |
| 044 | 044-B1 | No | No | -- | -- | -- | -- |
| | 044-B2 | No | No | -- | -- | -- | -- |
| 045 | 045-B1 | No | Yes | 9 | 9.1 | 0.1 | Coal. |
| | 045-B2 | Yes | -- | 8.8 | 12.6 | 3.8 | Slag, ash. |
| | 045-B3 | No | No | -- | -- | -- | -- |
| 046 | 046-B1 | No | No | -- | -- | -- | -- |
| | 046-B2 | No | Yes | 6 | 6.1 | 0.1 | Coal. |
| | 046-B3 | Yes | -- | 2 | 5 | 3 | Slag, ash. |
| 047 | 047-B1 | No | Yes | 7 | 7.1 | 0.1 | Glass. |
| | 047-B2 | No | Yes | 14 | 14.1 | 0.1 | Coal. |
| 048 | 048-B1 | No | No | -- | -- | -- | -- |
| | 048-B2 | No | No | -- | -- | -- | -- |
| 049 | 049-B1 | No | Yes | 4 | 5 | 1 | Coal. |
| | 049-B2 | No | No | -- | -- | -- | -- |
| | 049-B3 | No | No | -- | -- | -- | -- |
| 050 | -- Did not participate in program. -- | | | | | | |
| 051 | 051-B1 | Yes | -- | 34.3 | 70.2 | 35.9 | Ash, slag, coal, glass mixed with in soil. |
| | 051-B2 | No | Yes | 56.5 | 60.5 | 4 | Furnace brick. |
| | 051-B3 | No | No | -- | -- | -- | -- |
| | 051-B4 | No | No | -- | -- | -- | -- |
| | 051-B5 | No | No | -- | -- | -- | -- |
| 052 | 052-B1 | No | No | -- | -- | -- | -- |
| | 052-B2 | No | No | -- | -- | -- | -- |
| | 052-B3 | Yes | -- | 9 | 59 | 50 | Glass, ash, coal mixed with in soil. |
| | 052-B4 | Yes | -- | 26 | 94 | 68 | Glass, brick, ash, fibrous material. |
| | 052-B5 | No | No | -- | -- | -- | -- |
| | 052-B6 | No | Yes | 30.8 | 30.9 | 0.1 | trace glass |
| | 052-B6 | No | Yes | 44.5 | 44.6 | 0.1 | trace furnace brick |
| | 052-B6 | No | Yes | 52.2 | 52.3 | 0.1 | trace glass |
| 053 | 053-B1 | No | No | -- | -- | -- | -- |
| | 053-B2 | Yes | -- | 5 | 13 | 8 | Ash, slag. |
| | 053-B3 | No | No | -- | -- | -- | -- |
| 054 | 054-B1 | No | No | -- | -- | -- | -- |
| | 054-B2 | Yes | -- | 8.4 | 29 | 20.6 | Ash, slag, coal mixed in with soil. |
| 055 | 054-B3 | Yes | -- | 8 | 26.6 | 18.6 | Ash, slag, coal, brick mixed in with soil. |
| | 055-B1 | No | No | -- | -- | -- | -- |
| 056 | 055-B2 | No | No | -- | -- | -- | -- |
| | 056-B1 | No | No | -- | -- | -- | -- |
| | 056-B2 | No | No | -- | -- | -- | -- |
| 057 | 056-B3 | No | No | -- | -- | -- | -- |
| | 057-B1 | Yes | -- | 13 | 53 | 40 | White and grey ash and slag, brick, glass. |
| | 057-B2 | Yes | -- | 6 | 40.5 | 34.5 | Ash, slag. |
| 058 | 057-B3 | Yes | -- | 12 | 48 | 36 | Ash, slag, glass, brick. |
| | 058-B1 | No | Yes | 6 | 19 | 13 | Trace amount of coal |
| 059 | 058-B2 | No | No | -- | -- | -- | -- |
| | | No | Yes | 7.5 | 8.5 | 1 | Trace amount of furnace brick |
| | 059-B1 | Yes | -- | 24 | 40.5 | 16.5 | Ash, slag, brick, glass mixed in with soil. |
| | 059-B2 | No | No | -- | -- | -- | -- |
| | 059-B3 | No | Yes | 6 | 6.1 | 0.1 | Ash |
| 060 | 059-B4 | Yes | -- | 44 | 47 | 3 | Ash, slag, glass, brick. |
| | 060-B1 | Yes | -- | 25 | 48 | 23 | Ash, slag, glass. |
| | 060-B2 | Yes | -- | 6 | 9 | 3 | Grey ash, slag. |
| | 060-B3 | No | Yes | 5 | 8 | 3 | Trace amounts of ash, glass. |
| | 060-B4 | Yes | -- | 4 | 11 | 7 | Glass, brick, ash, slag. |
| 061 | 060-B5 | No | No | -- | -- | -- | -- |
| | 061-B1 | No | No | -- | -- | -- | -- |
| | 061-B2 | No | No | -- | -- | -- | -- |
| | 061-B3 | Yes | -- | 2 | 10 | 8 | Ash, slag. |
| 061-B4 | No | No | -- | -- | -- | -- | |

Table 1. Summary of Fill in Soil Borings
 Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|-----------|------------------------------|-----------------------------|--|---|---------------------------------------|--|
| 062 | 062-B1 | No | No | -- | -- | -- | -- |
| | 062-B2 | No | No | -- | -- | -- | -- |
| | 062-B3 | No | Yes | 5 | 8.6 | 3.6 | Coal, slag. |
| | 062-B4 | Yes | -- | 16.8 | 26.5 | 9.7 | Ash, coal, glass, slag. |
| 063 | 063-B1 | No | No | -- | -- | -- | -- |
| | 063-B2 | No | No | -- | -- | -- | -- |
| | 063-B3 | No | No | -- | -- | -- | -- |
| 064 | 064-B1 | No | Yes | 6 | 6.1 | 0.1 | Coal. |
| | 064-B2 | No | Yes | 33 | 33.1 | 0.1 | Coal. |
| | 064-B3 | No | No | -- | -- | -- | -- |
| 065 | 065-B1 | Yes | -- | 16 | 33.3 | 17.3 | Mostly Black Ash and Slag w/ trace Glass and Brick. |
| | 065-B2 | Yes | -- | 12 | 48 | 36 | Slag and Brick mixed with soil, glass, and Foundry Sand |
| | 065-B3 | No | No | -- | -- | -- | -- |
| 066 | 066-B1 | No | No | -- | -- | -- | -- |
| | 066-B2 | No | No | -- | -- | -- | -- |
| 067 | 067-B1 | No | No | -- | -- | -- | -- |
| | 067-B2 | No | No | -- | -- | -- | -- |
| 068 | 068-B1 | No | No | -- | -- | -- | -- |
| | 068-B2 | No | No | -- | -- | -- | -- |
| 069 | 069-B1 | No | Yes | 9 | 9.1 | 0.1 | Glass and Coal. |
| | 069-B2 | No | No | -- | -- | -- | -- |
| | 069-B3 | No | Yes | 5 | 5.1 | 0.1 | Glass and Ash. |
| | 069-B4 | Yes | -- | 21 | 43.7 | 22.7 | Ash, Glass, Furnace Brick. |
| | 069-B5 | Yes | -- | 30 | 50.2 | 20.2 | Ash, Glass, Furnace Brick, Metal pieces. |
| 069-B6 | Yes | -- | 23.4 | 30 | 6.6 | Ash, Glass, Foundry Sand. | |
| 070 | 070-B1 | No | Yes | 10 | 10.1 | 0.1 | Ash and Coal. |
| | 070-B2 | No | Yes | 22.7 | 22.8 | 0.1 | Ash and Coal. |
| | 070-B3 | Yes | -- | 16.5 | 39.5 | 23 | Ash, Slag, Glass, Furnace Brick. |
| | 070-B4 | Yes | -- | 18.6 | 34.6 | 16 | Ash, Slag, Brick. |
| | 070-B5 | No | Yes | 8.7 | 13 | 4.3 | Chunk of Furnace Brick. |
| 071 | 071-B1 | Yes | -- | 8.7 | 13 | 4.3 | Slag and Glass. |
| | 071-B2 | Yes | -- | 20.5 | 41 | 20.5 | Ash, Slag, Glass. |
| | 071-B3 | No | No | -- | -- | -- | -- |
| 072 | | | | | | -- Did not participate in program. -- | |
| 073 | 073-B1 | No | Yes | 9.7 | 9.8 | 0.1 | Coal |
| | 073-B2 | No | Yes | 10 | 11.5 | 1.5 | Coal and Slag. |
| | 073-B3 | Yes | -- | 5.5 | 13.7 | 8.2 | Brick and Slag. |
| | 073-B4 | No | No | -- | -- | -- | -- |
| 074 | 074-B1 | No | No | -- | -- | -- | -- |
| | 074-B2 | No | Yes | 14 | 14.1 | 0.1 | Coal |
| | 074-B3 | No | Yes | 19 | 19.1 | 0.1 | Coal |
| | 074-B4 | Yes | -- | 9 | 30 | 21 | Ash, Coal, Slag, Brick. |
| | 074-B5 | Yes | -- | 5 | 21 | 16 | Ash, Slag, Glass. |
| | 074-B6 | No | No | -- | -- | -- | -- |
| 075 | 075-B1 | No | No | -- | -- | -- | -- |
| | 075-B2 | No | No | -- | -- | -- | -- |
| | 075-B3 | Yes | Yes | 12 | 24 | 12 | Ash, Slag, Flecks of Glass. |
| | 075-B4 | No | No | -- | -- | -- | -- |
| 076 | 076-B1 | Yes | -- | 15.5 | 50 | 34.5 | Black and Gray Ash and Slag. |
| | 076-B2 | Yes | -- | 7.2 | 39.6 | 32.4 | Ash and Slag. |
| | 076-B3 | No | Yes | 9.3 | 25.3 | 16 | Trace amounts of glass and slag |
| 077 | 077-B1 | Yes | -- | 21 | 45 | 24 | Ash, Slag, Glass. |
| | 077-B2 | Yes | -- | 25.3 | 38.6 | 13.3 | Black Ash, Slag, Furnace Brick, Construction Brick. |
| | 077-B3 | Yes | -- | 21 | 45 | 24 | Black Ash, Slag, Furnace Brick, Construction Brick. |
| | 077-B4 | No | Yes | 8.5 | 8.6 | 0.1 | Glass. |
| | 077-B5 | Yes | -- | 16 | 33.5 | 17.5 | White Ceramics, Glass, Furnace Brick, Construction Brick. |
| | 077-B6 | Yes | -- | 15 | 19 | 4 | Black Ash. |
| 078 | 078-B1 | No | No | -- | -- | -- | -- |
| | 078-B2 | No | No | -- | -- | -- | -- |
| | 078-B3 | No | No | -- | -- | -- | -- |
| | 078-B4 | No | No | -- | -- | -- | -- |
| 079 | 079-B1 | No | No | -- | -- | -- | -- |
| | 079-B2 | No | Yes | 7.5 | 7.6 | 0.1 | Coal. |
| | 079-B3 | No | Yes | 11 | 11.1 | 0.1 | Ash. |
| 080 | 080-B1 | No | No | -- | -- | -- | -- |
| | 080-B2 | No | No | -- | -- | -- | -- |
| | 080-B3 | No | No | -- | -- | -- | -- |
| 081 | 081-B1 | No | Yes | 24 | 24.1 | 0.1 | Trace amounts of coal. |
| | 081-B2 | No | No | -- | -- | -- | -- |
| | 081-B3 | No | Yes | 7 | 7.1 | 0.1 | Coal. |
| 082 | 082-B1 | 82 | No | -- | -- | -- | -- |
| | 082-B2 | No | No | -- | -- | -- | -- |
| 083 | 083-B1 | Yes | -- | 7.2 | 51.3 | 44.1 | Black and Gray Ash, Slag, Metal flakes. |
| | 083-B2 | Yes | -- | 6 | 78.5 | 72.5 | Black and Gray Ash, Slag, Glass some layers mixed with soil. |
| | 083-B3 | Yes | -- | 3 | 107 | 104 | Black and Gray Ash, Glass, Foundry Sand, Yellow/orange Slag. |

Table 1. Summary of Fill in Soil Borings
 Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|---------------------------------------|------------------------------|-----------------------------|--|---|--|--|
| 084 | 084-B1 | No | No | -- | -- | -- | -- |
| | 084-B2 | No | Yes | 4.5 | 4.6 | 0.1 | Glass and Slag. |
| | | No | Yes | 18.2 | 18.3 | 0.1 | trace piece of coal |
| | | No | Yes | 33 | 33.1 | 0.1 | trace piece of coal |
| | | No | Yes | 36 | 36 | 0 | Ash |
| | 084-B3 | No | Yes | 14 | 14.1 | 0.1 | Glass |
| No | | Yes | 30 | 30.1 | 0.1 | Slag | |
| 085 | 085-B1 | No | No | -- | -- | -- | -- |
| | 085-B2 | No | Yes | 6.6 | 6.7 | 0.1 | Piece of Coal. |
| | 085-B3 | No | No | -- | -- | -- | -- |
| | 085-B4 | No | No | -- | -- | -- | -- |
| 086 | 086-B1 | Yes | -- | 6.3 | 99 | 92.7 | Black and Gray Ash, Slag, Glass, Brick. |
| | 086-B2 | Yes | -- | 18.2 | 39 | 20.8 | Black, White and Gray Ash, Slag, Glass. |
| 087 | -- Did not participate in program. -- | | | | | | |
| 088 | -- Did not participate in program. -- | | | | | | |
| 089 | 089-B1 | Yes | -- | 10.8 | 48 | 37.2 | White, Gray and Black Ash, Glass, Slag. |
| | 089-B2 | Yes | -- | 12 | 60 | 48 | Ash, Slag, Glass. |
| | 089-B3 | Yes | -- | 10 | 54 | 44 | Ash, Slag, Glass. |
| 090 | 090-B1 | No | No | -- | -- | -- | -- |
| | 090-B2 | No | No | -- | -- | -- | -- |
| | 090-B3 | No | No | -- | -- | -- | -- |
| 091 | 091-B1 | No | No | -- | -- | -- | -- |
| | 091-B2 | No | No | -- | -- | -- | -- |
| | 091-B3 | No | No | -- | -- | -- | -- |
| 092 | 092-B1 | No | No | -- | -- | -- | -- |
| | 092-B2 | Yes | -- | 27 | 51.5 | 24.5 | Light gray Ash, Slag, Concrete. |
| | 092-B3 | Yes | -- | 12 | 73 | 61 | Soil mixed with Glass, Ash, Furnace Brick, Unknown white material. |
| | 092-B4 | No | No | -- | -- | -- | -- |
| 093 | 093-B1 | No | Yes | 5.2 | 5.3 | 0.1 | Piece of Glass. |
| | | Yes | -- | 20 | 36 | 16 | Gray Ash and Slag. |
| | 093-B2 | Yes | -- | 4 | 36 | 32 | Gray and Black Ash and Slag. |
| 094 | 094-B1 | No | No | -- | -- | -- | -- |
| | 094-B2 | No | No | -- | -- | -- | -- |
| 095 | 095-B1 | No | No | -- | -- | -- | -- |
| | 095-B2 | No | No | -- | -- | -- | -- |
| | 095-B3 | No | No | -- | -- | -- | -- |
| 096 | 096-B1 | No | No | -- | -- | -- | -- |
| | 096-B2 | No | No | -- | -- | -- | -- |
| 097 | 097-B1 | No | No | -- | -- | -- | -- |
| | 097-B2 | No | Yes | 13 | 14 | 1 | Piece of Coal and Glass. |
| | 097-B3 | No | No | -- | -- | -- | -- |
| | 097-B4 | No | Yes | 13.6 | 13.7 | 0.1 | Piece of White material. |
| 098 | 098-B1 | No | Yes | 36.5 | 48 | 11.5 | Trace amounts of coal and brick. |
| | | Yes | -- | 48 | 55.3 | 7.3 | Glass and Brick chunks. |
| | 098-B2 | No | Yes | 22 | 33 | 11 | Trace Coal and stained soil. |
| | 098-B3 | Yes | -- | 13.7 | 37.7 | 24 | Ash, Slag, Glass, Brick pieces. |
| | 098-B4 | Yes | -- | 5 | 48 | 43 | Soils mixed with Coal, Slag, Ash, Brick, Glass throughout. |
| 098-B5 | No | Yes | 7 | 7.1 | 0.1 | Piece of Brick. | |
| | Yes | -- | 15.2 | 27 | 11.8 | Chunk of Wood on top of Concrete, w/ trace Brick and Coal. | |
| 099 | 099-B1 | No | No | -- | -- | -- | -- |
| | 099-B2 | No | No | -- | -- | -- | -- |
| | 099-B3 | No | Yes | 0 | 22.8 | 22.8 | trace amounts of coal |
| 100 | 100-B1 | No | No | -- | -- | -- | -- |
| | 100-B2 | No | No | -- | -- | -- | -- |
| 101 | 101-B1 | No | Yes | 12 | 12.1 | 0.1 | Ash and Coal. |
| | 101-B2 | No | No | -- | -- | -- | -- |
| | 101-B3 | No | No | -- | -- | -- | -- |
| 102 | 102-B1 | No | No | -- | -- | -- | -- |
| | 102-B2 | No | No | -- | -- | -- | -- |
| 103 | 103-B1 | Yes | -- | 7.8 | 41.5 | 33.7 | Black and gray Ash, Slag, Glass. |
| | 103-B2 | Yes | -- | 15 | 44.2 | 29.2 | Black and gray Ash, Slag, Glass. |
| | 103-B3 | Yes | -- | 6.5 | 25.5 | 19 | Gray, black and white Ash, Slag, Brick, Glass. |
| 104 | 104-B1 | Yes | -- | 17 | 60 | 43 | Black and dark Gray Ash, Slag, Glass fragments, piece of Metal. |
| | 104-B2 | Yes | -- | 16 | 72 | 56 | Ash, Slag, Brick, Foundry Sand, chunk of Brick at 7". |
| | 104-B3 | Yes | -- | 6 | 31.5 | 25.5 | Black Ash, Slag, Glass. (mixed with top soil 4" to 8") |
| | 104-B4 | Yes | -- | 4.8 | 33.6 | 28.8 | Black Ash, Slag, Brick, Glass. (mixed with top soil 4" to 10") |
| 105 | 105-B1 | No | Yes | 6.7 | 6.8 | 0.1 | Trace Brick. |
| | 105-B2 | No | Yes | 11.5 | 11.6 | 0.1 | Trace Coal. |
| 106 | 106-B1 | No | No | -- | -- | -- | -- |
| | 106-B2 | No | No | -- | -- | -- | -- |
| | 106-B3 | No | No | -- | -- | -- | -- |
| 107 | 107-B1 | No | Yes | 8 | 8.1 | 0.1 | Chunk of Concrete. |
| | 107-B2 | No | No | -- | -- | -- | -- |

Table 1. Summary of Fill in Soil Borings
Corning Study Area - Offsite OUS, Corning, New York

| Parcel ID # | Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Top of Fill Interval (Inches Below Ground) | Bottom of Fill Interval (Inches Below Ground) | Thickness of Fill (Inches) | Description of Target/Trace Fill Present |
|-------------|-----------|------------------------------|-----------------------------|--|---|----------------------------|---|
| 108 | 108-B1 | No | No | -- | -- | -- | -- |
| | 108-B2 | No | Yes | 8.5 | 8.6 | 0.1 | Trace Brick and Coal pieces. |
| 109 | 109-B1 | Yes | -- | 10 | 60 | 50 | Black and Gray Ash, Slag, Glass. |
| | 109-B2 | Yes | -- | 5 | 60 | 55 | Light Gray, Gray, Rust colored, Brown Ash, Slag, Glass, Brick, Foundry Sand. |
| | 109-B3 | Yes | -- | 9 | 48 | 39 | Intervals of light Gray and Black Ash, Slag, Glass. |
| ROW | ROW-B1 | Yes | -- | 7 | 30 | 23 | Gray and Black Ash, Slag, Glass Cullet. |
| | ROW-B2 | No | No | -- | -- | -- | -- |
| | ROW-B3 | No | No | -- | -- | -- | -- |
| | ROW-B4 | No | No | -- | -- | -- | -- |
| | ROW-B5 | Yes | -- | 6 | 18 | 12 | Black and Gray Ash and Slag. |
| | ROW-B6 | Yes | -- | 12 | 24 | 12 | Gray and Black Ash and Slag w/ little Glass and Brick fragments. |
| | ROW-B7 | No | No | -- | -- | -- | -- |
| | ROW-B8 | No | No | -- | -- | -- | -- |
| | ROW-B9 | No | No | -- | -- | -- | -- |
| | ROW-B10 | No | No | -- | -- | -- | -- |
| | ROW-B11 | No | No | -- | -- | -- | -- |
| | ROW-B12 | No | No | -- | -- | -- | -- |
| | ROW-B13 | No | No | -- | -- | -- | -- |
| | ROW-B14 | Yes | -- | 6 | 12 | 6 | Gray Ash and Slag w/ trace Brick. |
| Centerway | CEN-B2 | No | Yes | 12 | 12.1 | 0.1 | Brick. |
| | | No | Yes | 24 | 24.1 | 0.1 | Coal. |
| | CEN-B3 | No | Yes | 21.5 | 23 | 1.5 | Brick and Slag. |
| | | Yes | -- | 85.2 | 92.4 | 7.2 | Ash, Slag, Furnace Brick. |
| | CEN-B4 | Yes | -- | 17 | 68 | 51 | Ash, Brick, Glass, Slag mixed in with soil (Pocket of broken Glass 63" to 67"). |
| | CEN-B5 | No | Yes | 22.1 | 22.2 | 0.1 | Slag. |
| | | Yes | -- | 34 | 57 | 23 | Ash and Slag. |
| | CEN-B6 | No | No | -- | -- | -- | Asphalt 25" to 27" |
| | CEN-B7 | No | No | -- | -- | -- | -- |
| | CEN-B8 | No | Yes | 6 | 22 | 16 | Ash, Coal, Glass, Slag, Brick. |
| | | No | Yes | 68 | 77.2 | 9.2 | Ash, Coal. |
| | CEN-B9 | No | No | -- | -- | -- | Piece of Asphalt at 107" |
| | CEN-B10 | Yes | -- | 65.6 | 96 | 30.4 | Ash, Slag, Brick, Coal mixed in with soil. |
| No | | Yes | 165 | 165.1 | 0.1 | Coal and Slag. | |
| CEN-B11 | No | Yes | 12 | 12.1 | 0.1 | Glass. | |
| | No | Yes | 41 | 41.1 | 0.1 | Glass Cullet. | |
| | No | Yes | 118 | 120 | 2 | Glass fragments. | |
| I86 Berm | I86-B1 | No | No | -- | -- | -- | -- |
| | I86-B2 | No | No | -- | -- | -- | -- |
| | I86-B3 | No | Yes | 8 | 8.1 | 0.1 | Slag. |
| | | Yes | -- | 16 | 20 | 4 | Chunk of Red Brick. |
| | I86-B6 | Yes | -- | 12 | 62.5 | 50.5 | Ash, glass, furnace brick and slag |
| | I86-B7 | Yes | -- | 4 | 14 | 10 | Ash, glass, slag |
| | I86-B8 | Yes | -- | 8 | 52.1 | 44.1 | Soil mixed with Slag, Glass, Ash, and a Brick |
| | I86-B9 | No | No | -- | -- | -- | -- |
| | I86-B10 | No | Yes | 18 | 22 | 4 | Trace pieces of brick and coal |
| | | No | Yes | 110.7 | 144 | 33.3 | trace glass and brick |
| | | No | Yes | 152.8 | 176 | 23.2 | trace glass and brick |
| | I86-B11 | No | No | -- | -- | -- | -- |
| | I86-B12 | Yes | -- | 35 | 38 | 3 | Red Brick. |
| Yes | | -- | 76 | 78 | 2 | Light Red Brick. | |
| I86-B13 | No | No | -- | -- | -- | -- | |

Notes:

PN - Denotes the randomly assigned parcel number unique to each tax ID.

ROW - Denotes borings collected in the right of way, located just off the pavement of the streets.

CEN - Denotes borings collected along the berm located on the east side of Centerway Drive.

I86 - Denotes borings collected on the southern berm along Interstate 86.

A layer of fill is defined as either a continuous layer of fill greater than 1" or more than a few pieces of target fill mixed with soil

A location is defined as having trace fill, if there is a thickness of target fill less than 1.0". A location could also be considered as only having trace target fill, if only a few pieces of target fill were observed throughout the described interval.

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------|------------------------------|-----------------------------|---|
| 001 | 001-S1 | No | No | -- |
| | 001-S2 | No | No | -- |
| | 001-S3 | No | No | -- |
| | 001-S4 | No | No | -- |
| | 001-G1 | Yes | No | Mixed impacted fill with top soil and mulch |
| 002 | 002-S1 | No | No | -- |
| | 002-S2 | Yes | -- | Slag, ash, glass, tile. |
| | 002-S3 | No | No | -- |
| | 002-S4 | Yes | -- | Slag, ash, glass. |
| | 002-G1 | Yes | -- | Ash, slag, brick, glass. |
| 002-G2 | Yes | -- | Ash, slag, brick, glass. | |
| 003 | 003-S1 | No | No | -- |
| | 003-S2 | No | No | -- |
| | 003-S3 | No | No | -- |
| | 003-S4 | No | Yes | Glass. |
| | 003-G1 | No | No | -- |
| 004 | 004-S1 | No | No | -- |
| | 004-S2 | No | No | -- |
| | 004-S3 | No | No | -- |
| | 004-S4 | No | No | -- |
| 005 | 005-S1 | No | No | -- |
| | 005-S2 | No | Yes | Coal, slag. |
| | 005-S3 | No | No | -- |
| | 005-S4 | No | No | -- |
| | 005-G1 | No | Yes | Slag, ash, coal. |
| 006 | 006-S1 | No | No | -- |
| | 006-S2 | No | No | -- |
| | 006-S3 | No | No | -- |
| | 006-S4 | No | Yes | Slag, glass. |
| 007 | 007-S1 | No | No | -- |
| | 007-S2 | No | No | -- |
| | 007-S3 | No | No | -- |
| | 007-S4 | No | No | -- |
| 008 | 007-S1 | No | No | -- |
| | 007-S2 | No | Yes | Glass, slag. |
| | 007-S3 | No | No | -- |
| 009 | 009-S1 | No | Yes | Slag. |
| | 009-S2 | No | No | -- |
| | 009-S3 | No | No | -- |
| | 009-S4 | No | Yes | Glass. |
| 010 | 010-S1 | No | No | -- |
| | 010-S2 | No | No | -- |
| | 010-S3 | No | No | -- |
| | 010-S4 | No | No | -- |
| 011 | 010-S1 | No | No | -- |
| | 010-S2 | No | No | -- |
| | 010-S3 | No | No | -- |
| | 010-S4 | No | No | -- |
| 012 | 012-S1 | No | No | -- |
| | 012-S2 | No | No | -- |
| | 012-S3 | No | No | -- |
| | 012-S4 | No | No | -- |
| | 012-G1 | No | Yes | Slag. |
| 013 | 013-S1 | No | No | -- |
| | 013-S2 | No | No | -- |
| | 013-S3 | No | No | -- |
| | 013-S4 | No | No | -- |
| 014 | 014-S1 | No | No | -- |
| | 014-S2 | No | No | -- |
| | 014-S3 | No | No | -- |
| | 014-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------|------------------------------|-----------------------------|--|
| 015 | 001-S1 | No | No | -- |
| | 001-S2 | No | No | -- |
| | 001-S3 | No | No | -- |
| | 001-S4 | No | No | -- |
| | 001-G1 | No | No | -- |
| 016 | 016-S1 | No | No | -- |
| | 016-S2 | No | No | -- |
| | 016-S3 | No | No | -- |
| | 016-S4 | No | No | -- |
| 017 | 017-S1 | No | No | -- |
| | 017-S2 | No | No | -- |
| | 017-S3 | No | Yes | Ash, glass. |
| | 017-S4 | No | Yes | Ash, glass. |
| | 017-G1 | No | Yes | Ash. |
| 018 | 017-G2 | No | Yes | Ash. |
| | 018-S1 | No | No | -- |
| | 018-S2 | No | No | -- |
| | 018-S3 | No | No | -- |
| | 018-S4 | No | No | -- |
| 019 | 019-S1 | No | No | -- |
| | 019-S2 | No | No | -- |
| | 019-S3 | No | No | -- |
| | 019-S4 | No | No | -- |
| 020 | 020-S1 | No | No | -- |
| | 020-S2 | No | No | -- |
| | 020-S3 | No | No | -- |
| | 020-S4 | No | No | -- |
| | 020-G1 | No | No | -- |
| | 020-G2 | No | No | -- |
| | 020-G3 | No | No | -- |
| 021 | 021-S1 | No | No | -- |
| | 021-S2 | No | No | -- |
| | 021-S3 | No | No | -- |
| | 021-S4 | No | No | -- |
| 022 | 022-S1 | No | No | -- |
| | 022-S2 | No | No | -- |
| | 022-S3 | No | No | -- |
| | 022-S4 | No | No | -- |
| 023 | 023-S1 | No | No | -- |
| | 023-S2 | No | No | -- |
| | 023-S3 | No | No | -- |
| | 023-S4 | No | Yes | Slag. |
| 024 | 024-S1 | No | No | -- |
| | 024-S2 | No | No | -- |
| | 024-S3 | No | No | -- |
| | 024-S4 | No | No | -- |
| 025 | 025-S1 | No | No | -- |
| | 025-S2 | No | No | -- |
| | 025-S3 | No | No | -- |
| | 025-S4 | No | Yes | Coal, slag. |
| | 025-G1 | No | No | -- |
| 026 | 025-G2 | No | No | -- |
| | 026-S1 | No | No | -- |
| | 026-S2 | No | No | -- |
| | 026-S3 | No | No | -- |
| | 026-S4 | No | No | -- |
| 027 | 026-G1 | No | No | -- |
| | 027-S1 | No | No | -- |
| | 027-S2 | No | No | -- |
| | 027-S3 | No | Yes | Glass |
| | 027-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------|------------------------------|-----------------------------|--|
| 028 | 028-S1 | No | No | -- |
| | 028-S2 | No | No | -- |
| | 028-S3 | No | No | -- |
| | 028-S4 | No | No | -- |
| | 028-G1 | No | No | -- |
| 029 | 029-S1 | No | No | -- |
| | 029-S2 | No | No | -- |
| 030 | 030-S1 | No | No | -- |
| | 030-S2 | No | No | -- |
| | 030-S3 | No | Yes | Glass |
| | 030-S4 | No | No | -- |
| 031 | 031-S1 | No | No | -- |
| | 031-S2 | No | No | -- |
| | 031-S3 | No | No | -- |
| | 031-S4 | No | No | -- |
| | 031-G1 | Yes | -- | Ash. |
| 032 | 032-S1 | No | No | -- |
| | 032-S2 | No | No | -- |
| | 032-S3 | No | No | -- |
| | 032-S4 | No | No | -- |
| 033 | -- PN 033 does not exist. --- | | | |
| 034 | 034-S1 | Yes | -- | Glass, ash, ash. |
| | 034-S2 | No | No | -- |
| | 034-S3 | No | No | -- |
| | 034-S4 | Yes | -- | Glass, ash, slag. |
| 035 | 035-S1 | No | No | -- |
| | 035-S2 | No | Yes | Slag. |
| | 035-S3 | No | No | -- |
| | 035-S4 | No | No | -- |
| 036 | 036-S1 | No | No | -- |
| | 036-S2 | No | No | -- |
| | 036-S3 | No | No | -- |
| | 036-S4 | No | No | -- |
| | 036-G1 | Yes | No | -- |
| 037 | 037-S1 | No | No | -- |
| | 037-S2 | No | No | -- |
| | 037-S3 | No | No | -- |
| | 037-S4 | No | No | -- |
| | 037-G1 | Yes | No | -- |
| 038 | 038-S1 | No | No | -- |
| | 038-S2 | No | No | -- |
| | 038-S3 | No | No | -- |
| | 038-S4 | No | No | -- |
| 039 | 039-S1 | No | No | -- |
| | 039-S2 | No | No | -- |
| | 039-S3 | No | No | -- |
| | 039-S4 | No | No | -- |
| | 039-G1 | Yes | Yes | Coal. |
| | 039-G2 | Yes | Yes | Coal. |
| 040 | 040-S1 | No | No | -- |
| | 040-S2 | No | No | -- |
| | 040-S3 | No | No | -- |
| | 040-S4 | No | No | -- |
| 041 | 041-S1 | No | No | -- |
| | 041-S2 | No | No | -- |
| | 041-S3 | No | No | -- |
| | 041-S4 | No | No | -- |
| | 041-G1 | No | No | -- |
| 042 | 042-S1 | No | No | -- |
| | 042-S2 | No | Yes | Brick. |
| | 042-S3 | No | Yes | Brick. |
| | 042-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------------|------------------------------|-----------------------------|--|
| 043 | 043-S1 | No | No | -- |
| | 043-S2 | No | Yes | Brick. |
| | 043-S3 | No | Yes | Brick. |
| | 043-S4 | No | Yes | Brick. |
| 044 | 044-S1 | No | No | -- |
| | 044-S2 | No | No | -- |
| | 044-S3 | No | No | -- |
| | 044-S4 | No | No | -- |
| 045 | 045-S1 | No | No | -- |
| | 045-S2 | No | No | -- |
| | 045-S3 | No | No | -- |
| | 045-S4 | No | Yes | Brick, ash, glass. |
| 046 | 046-S1 | No | No | -- |
| | 046-S2 | No | No | -- |
| | 046-S3 | No | No | -- |
| | 046-S4 | No | No | -- |
| | 046-G1 | No | No | -- |
| 047 | 047-S1 | No | No | -- |
| | 047-S2 | No | Yes | Coal, slag. |
| | 047-S3 | No | No | -- |
| | 047-S4 | No | No | -- |
| | 047-G1 | No | No | -- |
| 048 | 048-S1 | No | No | -- |
| | 048-S2 | No | No | -- |
| | 048-S3 | No | No | -- |
| | 048-S4 | No | No | -- |
| 049 | 049-S1 | No | No | -- |
| | 049-S2 | No | No | -- |
| | 049-S3 | No | Yes | Glass. |
| | 049-S4 | No | No | -- |
| | 049-G1 | Yes | No | -- |
| | 049-G2 | Yes | Yes | Glass. |
| 050 | -- Did not participate in program. -- | | | |
| 051 | 050-S1 | No | No | -- |
| | 050-S2 | No | No | -- |
| | 050-S3 | No | No | -- |
| | 050-S4 | No | No | -- |
| 052 | 052-S1 | No | No | -- |
| | 052-S2 | No | No | -- |
| | 052-S3 | No | No | -- |
| | 052-S4 | No | No | -- |
| | 052-G1 | No | No | -- |
| | 052-G2 | No | Yes | Glass. |
| | 052-G3 | No | Yes | Glass. |
| 053 | 053-S1 | No | No | -- |
| | 053-S2 | No | No | -- |
| | 053-S3 | No | No | -- |
| | 053-S4 | No | No | -- |
| | 053-G1 | No | Yes | Ash, slag, glass. |
| 054 | 054-S1 | No | No | -- |
| | 054-S2 | No | No | -- |
| | 054-S3 | No | No | -- |
| | 054-S4 | No | No | -- |
| | 054-G1 | No | Yes | Ash, slag. |
| 055 | 055-S1 | No | No | -- |
| | 055-S2 | No | No | -- |
| | 055-S3 | No | No | -- |
| | 055-S4 | No | No | -- |
| | 055-G1 | No | Yes | Glass, slag. |
| 056 | 056-S1 | No | No | -- |
| | 056-S2 | No | Yes | Slag, ash, brick. |
| | 056-S3 | No | No | -- |
| | 056-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------|------------------------------|-----------------------------|--|
| 057 | 057-S1 | No | No | -- |
| | 057-S2 | No | No | -- |
| | 057-S3 | No | No | -- |
| | 057-S4 | Yes | -- | Ash, slag. |
| 058 | 058-S1 | No | No | -- |
| | 058-S2 | No | No | -- |
| | 058-S3 | No | No | -- |
| | 058-S4 | No | No | -- |
| | 058-G1 | No | Yes | Coal, slag. |
| | 058-G2 | No | No | -- |
| | 058-G3 | No | No | -- |
| | 058-G4 | No | No | -- |
| 059 | 059-S1 | No | No | -- |
| | 059-S2 | No | No | -- |
| | 059-S3 | No | Yes | Glass, slag. |
| | 059-S4 | No | No | -- |
| 060 | 060-S1 | No | No | -- |
| | 060-S2 | No | No | -- |
| | 060-S3 | No | No | -- |
| | 060-S4 | No | No | -- |
| | 060-G1 | No | No | -- |
| 061 | 061-S1 | No | No | -- |
| | 061-S2 | No | Yes | Ash, slag, brick, coal. |
| | 061-S3 | No | Yes | Ash, slag. |
| | 061-S4 | No | No | -- |
| | 061-G1 | No | No | -- |
| 062 | 062-S1 | No | No | -- |
| | 062-S2 | No | Yes | Coal. |
| | 062-S3 | No | No | -- |
| | 062-S4 | No | No | -- |
| 063 | 063-S1 | No | No | -- |
| | 063-S2 | No | No | -- |
| | 063-S3 | No | No | -- |
| | 063-S4 | No | No | -- |
| 064 | 064-S1 | No | No | -- |
| | 064-S2 | No | No | -- |
| | 064-S3 | No | No | -- |
| | 064-S4 | No | No | -- |
| | 064-G1 | No | No | -- |
| 064 | 064-S1 | No | No | -- |
| | 064-S2 | No | No | -- |
| | 064-S3 | No | No | -- |
| | 064-S4 | No | No | -- |
| | 064-G1 | No | No | -- |
| 065 | 065-S1 | No | No | -- |
| | 065-S2 | No | No | -- |
| | 065-S3 | No | No | -- |
| | 065-S4 | No | No | -- |
| 066 | 066-S1 | No | No | -- |
| | 066-S2 | No | No | -- |
| | 066-S3 | No | No | -- |
| | 066-S4 | No | No | -- |
| 067 | 067-S1 | No | No | -- |
| | 067-S2 | No | No | -- |
| | 067-S3 | No | No | -- |
| | 067-S4 | No | No | -- |
| 068 | 068-S1 | No | No | -- |
| | 068-S2 | No | No | -- |
| | 068-S3 | No | No | -- |
| | 068-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------------|------------------------------|-----------------------------|--|
| 069 | 068-S1 | No | No | -- |
| | 068-S2 | No | No | -- |
| | 068-S3 | No | No | -- |
| | 068-S4 | No | No | -- |
| 070 | 070-S1 | No | Yes | Glass. |
| | 070-S2 | No | No | -- |
| | 070-S3 | No | No | -- |
| | 070-S4 | No | No | -- |
| 071 | 071-S1 | No | No | -- |
| | 071-S2 | No | No | -- |
| | 071-S3 | No | Yes | Brick and Glass. |
| | 071-S4 | No | Yes | Brick. |
| 072 | -- Did not participate in program. -- | | | |
| 073 | 073-S1 | No | No | -- |
| | 073-S2 | No | No | -- |
| | 073-S3 | No | No | -- |
| | 073-S4 | No | No | -- |
| 074 | 074-S1 | No | No | -- |
| | 074-S2 | No | No | -- |
| | 074-S3 | No | No | -- |
| | 074-S4 | No | No | -- |
| 075 | 075-S1 | No | No | -- |
| | 075-S2 | No | No | -- |
| | 075-S3 | No | No | -- |
| | 075-S4 | No | No | -- |
| | 075-G1 | No | No | -- |
| 076 | 075-G2 | No | No | -- |
| | 076-S1 | No | No | -- |
| | 076-S2 | No | Yes | Slag and Ash beneath sample depth. |
| | 076-S3 | No | No | -- |
| | 076-S4 | No | No | -- |
| 077 | 077-S1 | No | No | -- |
| | 077-S2 | No | Yes | Glass, Slag, Ash. |
| | 077-S3 | No | No | -- |
| | 077-S4 | No | No | -- |
| 078 | 078-S1 | No | No | -- |
| | 078-S2 | No | No | -- |
| | 078-S3 | No | No | -- |
| | 078-S4 | No | No | -- |
| 079 | 079-S1 | No | No | -- |
| | 079-S2 | No | Yes | Slag and Coal. |
| | 079-S3 | No | No | -- |
| | 079-S4 | No | Yes | Slag and Coal. |
| 080 | 080-S1 | No | No | -- |
| | 080-S2 | No | No | -- |
| | 080-S3 | No | No | -- |
| | 080-S4 | No | No | -- |
| 081 | 081-S1 | No | No | -- |
| | 081-S2 | No | No | -- |
| | 081-S3 | No | No | -- |
| | 081-S4 | No | No | -- |
| | 081-G1 | No | No | -- |
| 082 | 082-S1 | No | No | -- |
| | 082-S2 | No | No | -- |
| | 082-S3 | No | Yes | Coal. |
| | 082-S4 | No | No | -- |
| 083 | 083-S1 | No | No | -- |
| | 083-S2 | Yes | -- | Unspecified Target Fill |
| | 083-S3 | No | No | -- |
| | 083-S4 | No | No | -- |
| 084 | 084-S1 | No | No | -- |
| | 084-S2 | No | No | -- |
| | 084-S3 | No | No | -- |
| | 084-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------------|------------------------------|-----------------------------|--|
| 085 | 085-S1 | No | No | -- |
| | 085-S2 | No | Yes | Brick. |
| | 085-S3 | No | No | -- |
| | 085-S4 | No | No | -- |
| 086 | 086-S1 | No | No | -- |
| | 086-S2 | No | No | -- |
| | 086-S3 | No | No | -- |
| | 086-S4 | No | No | -- |
| 087 | -- Did not participate in program. -- | | | |
| 088 | -- Did not participate in program. -- | | | |
| 089 | 089-S1 | No | No | -- |
| | 089-S2 | No | No | -- |
| | 089-S3 | Yes | -- | Ash, Slag, Brick, Glass. |
| | 089-S4 | No | No | -- |
| 090 | 090-S1 | No | No | -- |
| | 090-S2 | No | Yes | Slag. |
| | 090-S3 | No | No | -- |
| | 090-S4 | No | Yes | One large piece of Slag. |
| 091 | 091-S1 | No | No | -- |
| | 091-S2 | No | No | -- |
| | 091-S3 | No | No | -- |
| | 091-S4 | No | Yes | Glass. |
| 092 | 092-S1 | No | No | -- |
| | 092-S2 | No | No | -- |
| 093 | 093-S1 | No | No | -- |
| | 093-S2 | No | No | -- |
| | 093-S3 | No | No | -- |
| | 093-S4 | No | No | -- |
| | 093-G1 | Yes | -- | Ash and Slag 6" to 12" bgs. |
| 094 | 094-S1 | No | No | -- |
| | 094-S2 | No | No | -- |
| | 094-S3 | No | No | -- |
| | 094-S4 | No | No | -- |
| 095 | 095-S1 | No | No | -- |
| | 095-S2 | No | No | -- |
| | 095-S3 | No | No | -- |
| | 095-S4 | No | No | -- |
| 096 | 096-S1 | No | No | -- |
| | 096-S2 | No | No | -- |
| | 096-S3 | No | No | -- |
| | 096-S4 | No | No | -- |
| 097 | 097-S1 | No | No | -- |
| | 097-S2 | No | No | -- |
| | 097-S3 | No | No | -- |
| | 097-S4 | No | No | -- |
| | 097-G1 | No | Yes | Trace Ash at 12" bgs |
| | 097-G2 | No | No | -- |
| | 097-G3 | No | No | -- |
| | 097-G4 | No | No | -- |
| | 097-G5 | No | No | -- |
| 098 | 098-S1 | Yes | -- | Slag and Glass. |
| | 098-S2 | No | No | -- |
| | 098-S3 | No | No | -- |
| | 098-S4 | No | No | -- |
| 099 | 099-S1 | No | No | -- |
| | 099-S2 | No | No | -- |
| | 099-S3 | No | No | -- |
| | 099-S4 | No | No | -- |
| | 099-G1 | No | No | -- |
| 100 | 100-S1 | No | No | -- |
| | 100-S2 | No | No | -- |
| | 100-S3 | No | No | -- |
| | 100-S4 | No | No | -- |

**Table 2. Summary of Fill in Garden and Surface Soil Samples
 Corning Study Area - Offsite OU5, Corning, New York**

| Parcel ID # | Surface Sample/Garden Boring ID | Target Fill Present (Yes/No) | Trace Fill Present (Yes/No) | Description of Target/Trace Fill Present |
|-------------|---------------------------------|------------------------------|-----------------------------|--|
| 101 | 101-S1 | No | No | -- |
| | 101-S2 | No | Yes | Slag and Glass. |
| | 101-S3 | No | No | -- |
| | 101-S4 | No | No | -- |
| | 101-G1 | No | No | -- |
| 102 | 102-S1 | No | No | -- |
| | 102-S2 | No | No | -- |
| | 102-G1 | No | No | -- |
| | 102-G2 | No | Yes | Slag |
| | 102-G3 | No | Yes | Coal |
| 103 | 102-G4 | No | No | -- |
| | 103-S1 | No | Yes | Little Slag and Glass. |
| | 103-S2 | No | No | -- |
| | 103-S3 | No | No | -- |
| 104 | 103-S4 | No | No | -- |
| | 104-S1 | No | Yes | Ash, Slag, Glass. |
| | 104-S2 | No | No | -- |
| | 104-S3 | No | Yes | Unspecified Target Fill |
| 105 | 104-S4 | No | Yes | Unspecified Target Fill |
| | 105-S1 | No | No | -- |
| | 105-S2 | No | No | -- |
| | 105-S3 | No | No | -- |
| 106 | 105-S4 | No | No | -- |
| | 106-S1 | No | No | -- |
| | 106-S2 | No | No | -- |
| | 106-S3 | No | No | -- |
| 107 | 106-S4 | No | No | -- |
| | 107-S1 | No | No | -- |
| | 107-S2 | No | No | -- |
| | 107-S3 | No | No | -- |
| 108 | 107-S4 | No | No | -- |
| | 108-S1 | No | No | -- |
| | 108-S2 | No | No | -- |
| | 108-S3 | No | No | -- |
| 109 | 108-S4 | No | No | -- |
| | 109-S1 | No | No | -- |
| | 109-S2 | No | No | -- |
| | 109-S3 | No | No | -- |
| I86 Berm | 109-S4 | No | No | -- |
| | I86-S1 | No | Yes | Black Slag, Coal, Cinder, Ash. |
| | I86-S2 | No | Yes | Black Slag, Coal, Cinder, Ash. |

Notes:

1. PN - Denotes the randomly assigned parcel number unique to each tax ID.
2. I86 - Denotes surface samples collected on the southern berm along Interstate 86.

Table 3. Residential Soil Cleanup Objective and TCLP Exceedances by Constituent and Sample Depth
 Corning Study Area - Offsite OU5, Corning, New York

| Property ID | Arsenic | Cadmium | Lead | Other Metals | SVOC | TCLP |
|-------------|---|---------------------------------|---------------------------|---|-------------------|-----------------------|
| 001 | (5-7), (15-16) | (5-7) | (5-7) | (5-7) | (3.5-4.5) | (5-7) |
| 002 | (surface) (garden) (0-0.5), (1-3) (2-4) | (1-2) (2-4) | (1-2) (2-4) (1-3) | (surface) (garden) (1-3) (2-5) | (1-3) | |
| 003 | (1-2) (3-3.8) (5-6) | (1-2) (5-6) | (1-2) | | (0-1) (5-6) | |
| 004 | | | | | | |
| 005 | (surface) | | (surface) (0-2) | | (garden) | |
| 006 | (15-16) | | | (surface) (15-16) | | |
| 007 | | | | | | |
| 008 | (surface) | (surface) | | (0-2) (15-16) | | |
| 009 | (1.5-3) | (1-3) (1.5-3) | (1.5-3) | (surface) (1.5-3) | (1.5-3) (1-3) | (1.5-3) |
| 010 | | | | (15-16) | | |
| 011 | (surface) | | | | | |
| 012 | | (0.5-0.7) | (0.5-0.7) | (0-0.25) (0-0.5) (0.5-0.7) | | |
| 013 | | | | | | |
| 014 | | | | | | |
| 015 | | | | | | |
| 016 | (0-2) (3.5-4.5) (3-5) (4-6) | (0-2) (3.5-4.5) (3-5) (4-6) | (0-2) (3.5-4.5) (3-5) | (0-2) (3.5-4.5) (3-5) | (0-2) | (3.5-4.5) (3-5) (4-6) |
| 017 | (0-1) (3-4) | (0-1) (0.5-1.5) (3-4) | (0-1) (2.5-4.5) (3-4) | | | (3-4) |
| 018 | | | | | | |
| 019 | (0-0.5) (1-3) (6-8) | | (0-0.5) (1-3) (5-6) (6-8) | (1-3) (5-6) | (1-3) (5-6) (6-8) | |
| 020 | | | | | | |
| 021 | (1-2) (5-6) (2-4) (1-3) (5-7) | (5-6) | (1-2) (2-4) (5-6) (5-7) | (1-2) (5-6) | (1-3) (5-7) | (5-6) |
| 022 | | | | | (0.5-1.5) | |
| 023 | | | | | | |
| 024 | (surface) (3-5) (1-2.5) (0-0.5) | (surface) (0-0.5) (0.5-1.5) | (surface) (1-2.5) (0-0.5) | (surface) (0.5-1.5) (0.5-2.5) | | |
| 025 | | | | | | |
| 026 | | | | | | |
| 027 | (2-4) (6-8) (10-12) | (0-0.5) (2-4) (6-8) | | (2-4) | (2.5-4.2) | (2-4) |
| 028 | | | | | | |
| 029 | (0.5-2) | (surface) (0-0.5) (0.5-2) | (0.5-2) | | (surface) (0.5-2) | |
| 030 | | | | (15-16) | (0-2) | |
| 031 | (1-3) | | | | (2.5-3.5) | |
| 032 | (2-3) | | (2-3) | (surface) (0-0.5) | (1-3) (3-5) (2-4) | |
| 034 | (surface) (3-5) (1-3) (5-7) | (5-7) | (surface) (1-3) (5-7) | | (1-3) (5-7) (6-8) | (5-7) |
| 035 | (surface) (0-2.5) (3-5) | | (3-5) | (0-2.5) (2-3) | | (3-5) |
| 036 | | | | (garden) | | |
| 037 | | | | | | |
| 038 | | | | | | |
| 039 | (garden) | | | | | |
| 040 | (surface) | | | | | |
| 041 | (surface) (0-2) | | | | | |
| 042 | (surface) | | | (15-16) | | |
| 043 | | | | | | |
| 044 | | | | | | |
| 045 | | | | | | |
| 046 | | | | | | |
| 047 | (surface) | | | (surface) | | |
| 048 | (2-4) | | | | | |
| 049 | (garden) | | | (15-16) | | |
| 050 | No Access | | | | | |
| 051 | (2-4) (4-6) | (4-6) | (2-4) (4-6) | (surface) (2-4) | (2-4) | |
| 052 | (garden) (15-16) (0.5-2.5) (2.5-4.5) (7-8) (2-4) (6-8) | (0.5-2.5) (2.5-4.5) (2-4) (6-8) | (0.5-2.5) (2-4) (6-8) | (garden) (0.5-2.5) (2.5-4.5) (2-4) (6-8) (15-16) | | (2-4) (6-8) |
| 053 | (surface) | | (surface) (0.5-1) | (surface) (0.5-1.0) | | |
| 054 | | | | | | |
| 055 | | | | | | |
| 056 | | | | | | |
| 057 | (2-4) (4-5) | (2-4) | (2-4) (4-5) | (1-2.5) (2-4) | (1-2.5) (2-4) | |

Table 3. Residential Soil Cleanup Objective and TCLP Exceedances by Constituent and Sample Depth
 Corning Study Area - Offsite OU5, Corning, New York

| Property ID | Arsenic | Cadmium | Lead | Other Metals | SVOC | TCLP |
|-------------|---------------------------------|-------------------|-----------------------|---|-------------|-------------|
| 058 | (surface) (8-10) | | | | | |
| 059 | (2.5-4) (2.5-4.5) | | | | | |
| 060 | (surface) | | | (surface) | | |
| 061 | | | | | | |
| 062 | | | | | | |
| 063 | | | | | | |
| 064 | (0-2) | | | (0-2) | | |
| 065 | (1-2.5) (1-3) | | (1-2.5) (1-3) | | | |
| 066 | | | | | | |
| 067 | | | | (surface) | | |
| 068 | | | | | | |
| 069 | (0-2) (2.5-3) (2-4) | (2.5-3) (2-4) | (2.5-3) (2-4) | (0-2) (2-4) (2.5-3) (15-16) | | (2-4) |
| 070 | (surface) (2-3.5) | (surface) (2-3.5) | (2-3) | (2-3) | | |
| 071 | | | | | | |
| 072 | No Access | | | | | |
| 073 | (0-2) | | (surface) (0-2) | (surface) | | |
| 074 | | | | | | |
| 075 | (surface) | | | (surface) | | |
| 076 | (2-3.5) (2-4) | | | | (2.5-3.5) | |
| 077 | (surface) (0-1) (1.4-2) (1-2.5) | (surface) | (surface) | (1-2.5) | | |
| 078 | | | | | | |
| 079 | (surface) (0-2) | | | | | |
| 080 | | | | (surface) | | |
| 081 | | | | | | |
| 082 | | | | (8-10) | | |
| 083 | (2-4) (2.5-4) (5-7) (10-12) | (2.5-4) | (0-0.3) (2.5-4) (2-4) | (surface) (0-0.3) (2-4) (2.5-4) (5-7) (7-9) (10-12) | (5-7) (7-9) | |
| 084 | | | | | | |
| 085 | | | | | | |
| 086 | (1-2) (1.5-3.5) (2-4) (6-8) | | | | (1.5-3.5) | |
| 087 | No Access | | | | | |
| 088 | No Access | | | | | |
| 089 | (surface) (0.5-2.5) (4-5) | (0.5-2.5) | (0.5-2.5) (2-4) (4-5) | (0.5-2.5) (2-4) (4-5) | | |
| 090 | | | | (15-16) | | |
| 091 | | | (0-2) | | | |
| 092 | (2-4) (5-7) | (2-4) (5-7) | (2-4) (5-7) | (3-4) | | (2-4) (5-7) |
| 093 | | | | | | |
| 094 | (14-16) | | | | | |
| 095 | | | | | | |
| 096 | | | | | | |
| 097 | | | | | | |
| 098 | | | | | (surface) | |
| 099 | (surface) (garden) | | | | | |
| 100 | | | | | | |
| 101 | | | | | | |
| 102 | (2-4) | | | | | |
| 103 | (1-2) (1-3) | | (1-3) | | | |
| 104 | (surface) (0.5-2.5) | | (0-1) (0.5-2.5) (1-2) | (4-6) | | |
| 105 | (15-16) | | | | | |
| 106 | | | | | | |
| 107 | | | | | | |
| 108 | | | | | | |
| 109 | (1-3) (4-5) | (1-3) | (1-3) (2-4) (4-5) | (1-3) (2-4) (4-5) | | |

Note:

Numbers in parentheses indicate sample interval (in depth below ground surface) in which a constituent exceeded the residential soil cleanup objective or TCLP regulatory value.
 Blank cells indicate analytical results do not exceed the residential soil cleanup objective or TCLP regulatory value.

Table 4. Summary of Fill and Residential SCO Exceedances by Property
 Corning Study Area - Offsite OU5, Corning, New York

| Property Number | Fill Observed | | | Residential SCO Exceedance in Soil | | | | | TCLP Exceedance |
|-----------------|---------------|-------|----------------|------------------------------------|-------------------|--------------|--------------|-------------|-----------------|
| | Layer | Trace | Layer or Trace | At Any Depth | Surface or Garden | 0-2 Feet bgs | 2-4 Feet bgs | 4+ Feet bgs | |
| 001 | Yes | No | Yes | Yes | No | No | Yes | Yes | Yes |
| 002 | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No |
| 003 | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| 004 | No | No | No | No | No | No | No | No | No |
| 005 | No | Yes | Yes | Yes | Yes | Yes | No | No | No |
| 006 | No | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 007 | Yes | Yes | Yes | No | No | No | No | No | No |
| 008 | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | No |
| 009 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes |
| 010 | No | Yes | Yes | Yes | No | No | No | Yes | No |
| 011 | No | No | No | Yes | Yes | No | No | No | No |
| 012 | Yes | Yes | Yes | Yes | No | Yes | No | No | No |
| 013 | No | No | No | No | No | No | No | No | No |
| 014 | No | No | No | No | No | No | No | No | No |
| 015 | No | No | No | No | No | No | No | No | No |
| 016 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | Yes |
| 017 | Yes | No | Yes | Yes | No | Yes | Yes | No | Yes |
| 018 | No | No | No | No | No | No | No | No | No |
| 019 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No |
| 020 | No | Yes | Yes | No | No | No | No | No | No |
| 021 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | Yes |
| 022 | Yes | No | Yes | Yes | No | Yes | No | No | No |
| 023 | Yes | No | Yes | No | No | No | No | No | No |
| 024 | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No |
| 025 | No | Yes | Yes | No | No | No | No | No | No |
| 026 | No | No | No | No | No | No | No | No | No |
| 027 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | Yes |
| 028 | No | Yes | Yes | No | No | No | No | No | No |
| 029 | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No |
| 030 | Yes | Yes | Yes | Yes | No | No | Yes | Yes | No |
| 031 | Yes | No | Yes | Yes | No | Yes | Yes | No | No |
| 032 | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No |
| 034 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 035 | Yes | No | Yes | Yes | Yes | Yes | Yes | No | Yes |
| 036 | No | Yes | Yes | Yes | Yes | No | No | No | No |
| 037 | No | No | No | No | No | No | No | No | No |
| 038 | No | No | No | No | No | No | No | No | No |

- Indicates Trace Fill Only Observed and a Residential SCO Exceedance on the property.
- Indicates Trace Fill Only Observed and no Residential SCO Exceedance on the property.
- Indicates Fill Observed and a Residential SCO Exceedance on the property.
- Indicates No Fill Observed and a Residential SCO Exceedance on the property.
- Indicates Fill Observed and no Residential SCO Exceedance on the property.
- Indicates No Fill Observed and no Residential SCO Exceedance on the property.

Layer is defined as a measurable thickness of one inch or greater of ash, brick, or glass fill.

Trace is defined as one to a few pieces of fill material at a point or given interval of soil.

Table 4. Summary of Fill and Residential SCO Exceedances by Property
 Corning Study Area - Offsite OU5, Corning, New York

| Property Number | Fill Observed | | | Residential SCO Exceedance in Soil | | | | | TCLP Exceedance |
|-----------------|---------------|-------|----------------|------------------------------------|-------------------|--------------|--------------|-------------|-----------------|
| | Layer | Trace | Layer or Trace | At Any Depth | Surface or Garden | 0-2 Feet bgs | 2-4 Feet bgs | 4+ Feet bgs | |
| 039 | No | Yes | Yes | Yes | Yes | No | No | No | No |
| 040 | No | No | No | Yes | Yes | No | No | No | No |
| 041 | No | No | No | Yes | Yes | Yes | No | No | No |
| 042 | No | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 043 | No | Yes | Yes | No | No | No | No | No | No |
| 044 | No | No | No | No | No | No | No | No | No |
| 045 | Yes | No | Yes | No | No | No | No | No | No |
| 046 | Yes | No | Yes | No | No | No | No | No | No |
| 047 | No | Yes | Yes | Yes | Yes | No | No | No | No |
| 048 | No | No | No | Yes | No | No | Yes | No | No |
| 049 | No | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 050 | No Access | | | | | | | | |
| 051 | Yes | No | Yes | Yes | Yes | No | Yes | Yes | No |
| 052 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 053 | Yes | No | Yes | Yes | Yes | Yes | No | No | No |
| 054 | Yes | Yes | Yes | No | No | No | No | No | No |
| 055 | No | Yes | Yes | No | No | No | No | No | No |
| 056 | No | Yes | Yes | No | No | No | No | No | No |
| 057 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No |
| 058 | No | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 059 | Yes | No | Yes | Yes | No | No | Yes | No | No |
| 060 | Yes | No | Yes | Yes | Yes | No | No | No | No |
| 061 | Yes | Yes | Yes | No | No | No | No | No | No |
| 062 | Yes | Yes | Yes | No | No | No | No | No | No |
| 063 | No | No | No | No | No | No | No | No | No |
| 064 | No | Yes | Yes | Yes | No | Yes | No | No | No |
| 065 | Yes | No | Yes | Yes | No | Yes | Yes | No | No |
| 066 | No | Yes | Yes | No | No | No | No | No | No |
| 067 | No | No | No | Yes | Yes | No | No | No | No |
| 068 | No | No | No | No | No | No | No | No | No |
| 069 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | Yes |
| 070 | Yes | No | Yes | Yes | Yes | No | Yes | No | No |
| 071 | Yes | No | Yes | No | No | No | No | No | No |
| 072 | No Access | | | | | | | | |
| 073 | Yes | No | Yes | Yes | Yes | Yes | No | No | No |
| 074 | Yes | Yes | Yes | No | No | No | No | No | No |
| 075 | Yes | No | Yes | Yes | Yes | No | No | No | No |

- Indicates Trace Fill Only Observed and a Residential SCO Exceedance on the property.
- Indicates Trace Fill Only Observed and no Residential SCO Exceedance on the property.
- Indicates Fill Observed and a Residential SCO Exceedance on the property.
- Indicates No Fill Observed and a Residential SCO Exceedance on the property.
- Indicates Fill Observed and no Residential SCO Exceedance on the property.
- Indicates No Fill Observed and no Residential SCO Exceedance on the property.

Layer is defined as a measurable thickness of one inch or greater of ash, brick, or glass fill.

Trace is defined as one to a few pieces of fill material at a point or given interval of soil.

Table 4. Summary of Fill and Residential SCO Exceedances by Property
 Corning Study Area - Offsite OU5, Corning, New York

| Property Number | Fill Observed | | | Residential SCO Exceedance in Soil | | | | | TCLP Exceedance |
|-----------------|---------------|-------|----------------|------------------------------------|-------------------|--------------|--------------|-------------|-----------------|
| | Layer | Trace | Layer or Trace | At Any Depth | Surface or Garden | 0-2 Feet bgs | 2-4 Feet bgs | 4+ Feet bgs | |
| 076 | Yes | No | Yes | Yes | No | No | Yes | No | No |
| 077 | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No |
| 078 | No | No | No | No | No | No | No | No | No |
| 079 | No | Yes | Yes | Yes | Yes | Yes | No | No | No |
| 080 | No | No | No | Yes | Yes | No | No | No | No |
| 081 | No | Yes | Yes | No | No | No | No | No | No |
| 082 | No | Yes | Yes | Yes | No | No | No | Yes | No |
| 083 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | No |
| 084 | No | Yes | Yes | No | No | No | No | No | No |
| 085 | No | Yes | Yes | No | No | No | No | No | No |
| 086 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No |
| 087 | No Access | | | | | | | | |
| 088 | No Access | | | | | | | | |
| 089 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | No |
| 090 | No | Yes | Yes | Yes | No | No | No | Yes | No |
| 091 | No | Yes | Yes | Yes | No | Yes | No | No | No |
| 092 | Yes | No | Yes | Yes | No | No | Yes | Yes | Yes |
| 093 | Yes | No | Yes | No | No | No | No | No | No |
| 094 | No | No | No | Yes | No | No | No | Yes | No |
| 095 | No | No | No | No | No | No | No | No | No |
| 096 | No | No | No | No | No | No | No | No | No |
| 097 | No | Yes | Yes | No | No | No | No | No | No |
| 098 | Yes | No | Yes | Yes | Yes | No | No | No | No |
| 099 | No | Yes | Yes | Yes | Yes | No | No | No | No |
| 100 | No | No | No | No | No | No | No | No | No |
| 101 | No | Yes | Yes | No | No | No | No | No | No |
| 102 | No | Yes | Yes | Yes | No | No | Yes | No | No |
| 103 | Yes | No | Yes | Yes | No | Yes | Yes | No | No |
| 104 | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | No |
| 105 | No | Yes | Yes | Yes | No | No | No | Yes | No |
| 106 | No | No | No | No | No | No | No | No | No |
| 107 | No | No | No | No | No | No | No | No | No |
| 108 | No | Yes | Yes | No | No | No | No | No | No |
| 109 | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No |
| Sum | 50 | 42 | 80 | 64 | 35 | 35 | 33 | 28 | 11 |

- Indicates Trace Fill Only Observed and a Residential SCO Exceedance on the property.
- Indicates Trace Fill Only Observed and no Residential SCO Exceedance on the property.
- Indicates Fill Observed and a Residential SCO Exceedance on the property.
- Indicates No Fill Observed and a Residential SCO Exceedance on the property.
- Indicates Fill Observed and no Residential SCO Exceedance on the property.
- Indicates No Fill Observed and no Residential SCO Exceedance on the property.

| Sum of properties in each category | |
|------------------------------------|--------|
| 17 | orange |
| 13 | purple |
| 40 | blue |
| 7 | yellow |
| 10 | gray |
| 17 | green |
| 104 | total |

Layer is defined as a measurable thickness of one inch or greater of ash, brick, or glass fill.
Trace is defined as one to a few pieces of fill material at a point or given interval of soil.

**Table 5. Number of Properties with Residential Soil Cleanup Objective and TCLP Exceedances by Depth Interval and Analyte
Corning Study Area - Offsite OU5, Corning, New York**

Residential Soil Cleanup Exceedance Count

| SVOC | Garden Sample | Surface Sample | 0-2 | 2-4 | 4-10 | 10+ | Any depth |
|-------------------------|---------------|----------------|-----|-----|------|-----|-----------|
| BENZO(A)ANTHRACENE | 1 | | 6 | 3 | 4 | | 12 |
| BENZO(A)PYRENE | 1 | | 7 | 3 | 3 | | 11 |
| BENZO(B)FLUORANTHENE | 1 | 1 | 9 | 3 | 4 | | 15 |
| BENZO(K)FLUORANTHENE | | | 5 | 1 | 3 | | 9 |
| CHRYSENE | 1 | | 8 | 3 | 4 | | 14 |
| DIBENZ(A,H)ANTHRACENE | | | 8 | 3 | 3 | | 12 |
| INDENO(1,2,3-C,D)PYRENE | 1 | 2 | 12 | 8 | 5 | | 20 |

Residential Soil Cleanup Exceedance Count

| Metal | Garden Sample | Surface Sample | 0-2 | 2-4 | 4-10 | 10+ | Any depth |
|-----------------|---------------|----------------|-----|-----|------|-----|-----------|
| ARSENIC | 5 | 21 | 25 | 22 | 16 | 7 | 53 |
| BARIUM | 1 | 1 | 7 | 9 | 9 | 3 | 17 |
| CADMIUM | | 5 | 12 | 10 | 11 | | 22 |
| CHROMIUM, TOTAL | 1 | 6 | 8 | 3 | 2 | 1 | 17 |
| COPPER | | | 2 | 1 | 1 | | 4 |
| LEAD | | 6 | 22 | 15 | 10 | | 30 |
| MERCURY | 6 | 1 | 9 | 8 | | | 21 |
| NICKEL | | | 1 | | 1 | | 2 |
| ZINC | | | 1 | 3 | 1 | | 4 |
| MANGANESE | | 1 | | | 1 | 8 | 10 |
| SELENIUM | | | | 1 | | | 1 |

TCLP Regulatory Value Exceedance Count

| TCLP Metal | Garden Sample | Surface Sample | 0-2 | 2-4 | 4-10 | 10+ | Any depth |
|------------|---------------|----------------|-----|-----|------|-----|-----------|
| BARIUM | | | | 1 | | | 1 |
| CADMIUM | | | 1 | 3 | | | 4 |
| LEAD | | | 1 | 6 | 6 | | 10 |

Notes:

The numbers in the cells above represent the number of properties with a sample concentration exceeding the residential soil cleanup objective or TCLP regulatory value.

0-2, 2-4, 4-10, and 10+ represent the depth below ground surface in feet.

**Table 6. Summary of Detections and Exceedances
Corning Study Area - Offsite OU5, Corning, New York**

| Semi-Volatile Organic Compound | Maximum Detection | Units | # Properties with Residential SCO Exceedances | # Samples with Residential SCO Exceedances | Total Samples | Non-Detects | Detects | Detection Frequency |
|--|-------------------|-------|---|--|---------------|-------------|---------|---------------------|
| 2,4,5-TRICHLOROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,4,6-TRICHLOROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,4-DICHLOROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,4-DIMETHYLPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,4-DINITROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,4-DINITROTOLUENE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2,6-DINITROTOLUENE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2-CHLORONAPHTHALENE | 660 | ug/kg | 0 | 0 | 336 | 301 | 35 | 10.4% |
| 2-CHLOROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2-METHYLNAPHTHALENE | 1200 | ug/kg | 0 | 0 | 336 | 151 | 185 | 55.1% |
| 2-METHYLPHENOL (O-CRESOL) | 340 | ug/kg | 0 | 0 | 336 | 335 | 1 | 0.3% |
| 2-NITROANILINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 2-NITROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 3,3'-DICHLOROENZIDINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 3-NITROANILINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4,6-DINITRO-2-METHYLPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-BROMOPHENYL PHENYL ETHER | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-CHLORO-3-METHYLPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-CHLOROANILINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-CHLOROPHENYL PHENYL ETHER | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-METHYLPHENOL (P-CRESOL) | 1800 | ug/kg | 0 | 0 | 336 | 300 | 36 | 10.7% |
| 4-NITROANILINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| 4-NITROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| ACENAPHTHENE | 1000 | ug/kg | 0 | 0 | 336 | 253 | 83 | 24.7% |
| ACENAPHTHYLENE | 3400 | ug/kg | 0 | 0 | 336 | 181 | 155 | 46.1% |
| ACETOPHENONE | 2100 | ug/kg | 0 | 0 | 336 | 295 | 41 | 12.2% |
| ANTHRACENE | 15000 | ug/kg | 0 | 0 | 336 | 233 | 103 | 30.7% |
| ATRAZINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| BENZALDEHYDE | 76 | ug/kg | 0 | 0 | 336 | 321 | 15 | 4.5% |
| BENZO(A)ANTHRACENE | 55000 | ug/kg | 12 | 22 | 336 | 148 | 188 | 56.0% |
| BENZO(A)PYRENE | 50000 | ug/kg | 11 | 23 | 336 | 121 | 215 | 64.0% |
| BENZO(B)FLUORANTHENE | 83000 | ug/kg | 15 | 31 | 336 | 113 | 223 | 66.4% |
| BENZO(G,H,I)PERYLENE | 42000 | ug/kg | 0 | 0 | 336 | 141 | 195 | 58.0% |
| BENZO(K)FLUORANTHENE | 35000 | ug/kg | 9 | 12 | 336 | 148 | 188 | 56.0% |
| BENZYL BUTYL PHTHALATE | 430 | ug/kg | 0 | 0 | 336 | 325 | 11 | 3.3% |
| BIPHENYL (DIPHENYL) | 550 | ug/kg | 0 | 0 | 336 | 307 | 29 | 8.6% |
| BIS(2-CHLOROETHOXY) METHANE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER) | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| BIS(2-CHLOROISOPROPYL) ETHER | 22 | ug/kg | 0 | 0 | 336 | 335 | 1 | 0.3% |
| BIS(2-ETHYLHEXYL) PHTHALATE | 4000 | ug/kg | 0 | 0 | 336 | 265 | 71 | 21.1% |
| CAPROLACTAM | 180 | ug/kg | 0 | 0 | 336 | 331 | 5 | 1.5% |
| CARBAZOLE | 6700 | ug/kg | 0 | 0 | 336 | 221 | 115 | 34.2% |
| CHRYSENE | 53000 | ug/kg | 14 | 25 | 336 | 108 | 228 | 67.9% |
| DIBENZ(A,H)ANTHRACENE | 11000 | ug/kg | 12 | 20 | 336 | 202 | 134 | 39.9% |
| DIBENZOFURAN | 2700 | ug/kg | 0 | 0 | 336 | 219 | 117 | 34.8% |
| DIETHYL PHTHALATE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| DIMETHYL PHTHALATE | 71 | ug/kg | 0 | 0 | 336 | 335 | 1 | 0.3% |
| DI-N-BUTYL PHTHALATE | 270 | ug/kg | 0 | 0 | 336 | 298 | 38 | 11.3% |
| DI-N-OCTYLPHTHALATE | 72 | ug/kg | 0 | 0 | 336 | 335 | 1 | 0.3% |
| FLUORANTHENE | 96000 | ug/kg | 0 | 0 | 336 | 101 | 235 | 69.9% |
| FLUORENE | 3800 | ug/kg | 0 | 0 | 336 | 213 | 123 | 36.6% |
| HEXACHLOROENZENE | 46 | ug/kg | 0 | 0 | 336 | 334 | 2 | 0.6% |
| HEXACHLOROBUTADIENE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| HEXACHLOROCYCLOPENTADIENE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| HEXACHLOROETHANE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| INDENO(1,2,3-C,D)PYRENE | 53000 | ug/kg | 20 | 35 | 336 | 147 | 189 | 56.3% |
| ISOPHORONE | 150000 | ug/kg | 0 | 0 | 336 | 296 | 40 | 11.9% |
| NAPHTHALENE | 6200 | ug/kg | 0 | 0 | 336 | 139 | 197 | 58.6% |
| NITROBENZENE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| N-NITROSODI-N-PROPYLAMINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| N-NITROSODIPHENYLAMINE | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| PENTACHLOROPHENOL | | ug/kg | 0 | 0 | 336 | 336 | 0 | 0.0% |
| PHENANTHRENE | 43000 | ug/kg | 0 | 0 | 336 | 98 | 238 | 70.8% |
| PHENOL | 2200 | ug/kg | 0 | 0 | 336 | 316 | 20 | 6.0% |
| PYRENE | 75000 | ug/kg | 0 | 0 | 336 | 111 | 225 | 67.0% |

Note:

SCO - Soil Cleanup Objective

Values for Maximum Detection, Total Samples, Non-Detects, Detects, and Detection Frequency represent all samples collected during the Offsite OU5 Investigation. Residential SCO Exceedances represent only residential properties.

**Table 6. Summary of Detections and Exceedances
Corning Study Area - Offsite OU5, Corning, New York**

| Metal | Maximum Detection | Units | # Properties with Residential SCO Exceedances | # Samples with Residential SCO Exceedances | Total Samples | Non-Detects | Detects | Detection Frequency |
|-----------------|--------------------------|--------------|--|---|----------------------|--------------------|----------------|----------------------------|
| ALUMINUM | 19800 | mg/kg | 0 | 0 | 1441 | 0 | 1441 | 100.0% |
| ANTIMONY | 176 | mg/kg | 0 | 0 | 1441 | 1383 | 58 | 4.0% |
| ARSENIC | 669 | mg/kg | 53 | 145 | 1441 | 1 | 1440 | 99.9% |
| BARIUM | 4790 | mg/kg | 17 | 35 | 1441 | 0 | 1441 | 100.0% |
| BERYLLIUM | 2 | mg/kg | 0 | 0 | 1441 | 183 | 1258 | 87.3% |
| CADMIUM | 374 | mg/kg | 22 | 50 | 1441 | 1137 | 304 | 21.1% |
| CALCIUM | 330000 | mg/kg | 0 | 0 | 1441 | 3 | 1438 | 99.8% |
| CHROMIUM, TOTAL | 436 | mg/kg | 17 | 22 | 1441 | 2 | 1439 | 99.9% |
| COBALT | 55.9 | mg/kg | 0 | 0 | 1441 | 3 | 1438 | 99.8% |
| COPPER | 1520 | mg/kg | 5 | 6 | 1441 | 1 | 1440 | 99.9% |
| IRON | 258000 | mg/kg | 0 | 0 | 1441 | 0 | 1441 | 100.0% |
| LEAD | 28600 | mg/kg | 30 | 73 | 1441 | 0 | 1441 | 100.0% |
| MAGNESIUM | 70700 | mg/kg | 0 | 0 | 1441 | 1 | 1440 | 99.9% |
| MANGANESE | 8260 | mg/kg | 10 | 11 | 1441 | 0 | 1441 | 100.0% |
| MERCURY | 18 | mg/kg | 21 | 31 | 1441 | 76 | 1365 | 94.7% |
| NICKEL | 442 | mg/kg | 2 | 2 | 1441 | 2 | 1439 | 99.9% |
| POTASSIUM | 2160 | mg/kg | 0 | 0 | 1441 | 2 | 1439 | 99.9% |
| SELENIUM | 90.1 | mg/kg | 1 | 1 | 1441 | 1074 | 367 | 25.5% |
| SILVER | 10.1 | mg/kg | 0 | 0 | 1441 | 1314 | 127 | 8.8% |
| SODIUM | 2930 | mg/kg | 0 | 0 | 1441 | 1138 | 303 | 21.0% |
| THALLIUM | 7.2 | mg/kg | 0 | 0 | 1441 | 1384 | 57 | 4.0% |
| VANADIUM | 44.8 | mg/kg | 0 | 0 | 1441 | 1 | 1440 | 99.9% |
| ZINC | 14200 | mg/kg | 4 | 5 | 1441 | 0 | 1441 | 100.0% |

Note:

SCO - Soil Cleanup Objective

Values for Maximum Detection, Total Samples, Non-Detects, Detects, and Detection Frequency represent all samples collected during the Offsite OU5 Investigation. Residential SCO Exceedances represent only residential properties.

| Metal - TCLP | Maximum Detection | Units | # Properties with TCLP Exceedances | # Samples with TCLP Exceedances | Total Samples | Non-Detects | Detects | Detection Frequency |
|---------------------|--------------------------|--------------|---|--|----------------------|--------------------|----------------|----------------------------|
| ARSENIC | 5 | mg/l | 0 | 0 | 336 | 250 | 86 | 25.6% |
| BARIUM | 104 | mg/l | 1 | 1 | 336 | 0 | 336 | 100.0% |
| CADMIUM | 17.2 | mg/l | 4 | 4 | 336 | 264 | 72 | 21.4% |
| CHROMIUM, TOTAL | 0.042 | mg/l | 0 | 0 | 336 | 331 | 5 | 1.5% |
| LEAD | 283 | mg/l | 10 | 15 | 336 | 72 | 264 | 78.6% |
| MERCURY | 0.0015 | mg/l | 0 | 0 | 336 | 332 | 4 | 1.2% |
| SELENIUM | 0.14 | mg/l | 0 | 0 | 336 | 333 | 3 | 0.9% |
| SILVER | | mg/l | 0 | 0 | 336 | 336 | 0 | 0.0% |

Notes:

SCO - Soil Cleanup Objective

TCLP - Toxicity Characteristic Leaching Procedure

Values for Maximum Detection, Total Samples, Non-Detects, Detects, and Detection Frequency represent all samples collected during the Offsite OU5 Investigation. Residential SCO Exceedances represent only residential properties.

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Appendices are included in a
separate PDF