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# **SITE CHARACTERIZATION WORK PLAN**

## **Connector Street Site**

### **Corning, Steuben County, New York**

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Prepared for:



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## ACRONYMS

AHA	Activity Hazard Analysis	PET	polyethylene terephthalate
bgs	below ground surface	PFAS	per- and polyfluoroalkyl substances
CAMP	Community Air Monitoring Plan	PFOA	perfluorooctanoic acid
CNG	Corning Natural Gas	PFOS	perfluorooctanesulfonic acid
DI	deionized	PID	photoionization detector
DPT	Direct Push Technology	PPE	personal protective equipment
EM	electromagnetic induction	PSHEP	Parsons Safety, Health, and Environment Plan
FAP	Field Activities Plan	PVC	polyvinyl chloride
GPR	ground-penetrating radar	QA/QC	quality assurance/quality control
GPS	global positioning system	QAPP	Quality Assurance Project Plan
HAS	hollow-stem auger	RF	radio frequency
HDPE	high-density polyethylene	SCC	State Sanitary Code
IDW	investigation-derived waste	SCOs	Soil Cleanup Objectives
MCL	Minimum Contaminant Levels	SSHEP	Subcontractor Safety, Health, and Environment Plan
MS/MSD	matrix spike/matrix spike duplicate	SVOCs	semivolatile organic compounds
NAD 83	North American Datum of 1983	TCL	Target Compound List
NAVD 88	North American Vertical Datum of 1988	TCLP	Toxicity Characteristic Leaching Procedure
NTUs	nephelometric turbidity units	VOCs	volatile organic compounds
NYSDEC	New York State Department of Environmental Conservation		
NYSDOH	New York State Department of Health		



# SECTION 1 PROJECT OBJECTIVES AND BACKGROUND

## 1.1 Project Objectives

New York State Department of Environmental Conservation (NYSDEC), along with the New York State Department of Health (NYSDOH), have been overseeing the investigation and implementation of remedial activities associated with past disposal of waste materials from pre-cursor companies of Corning Incorporated.

Parsons proposes to assist NYSDEC with the site characterization efforts at the Connector Street Site to:

1. Investigate potential impacts to human health and the environment from target fill material containing ash, glass, and/or brick (glass manufacturing-related waste).
2. Investigate potential presence and location of contaminants in surface and subsurface soils.
3. Determine whether groundwater is being impacted.

The primary contaminants of concern, based on previous disposal of ash, glass, and/or brick, have been identified as arsenic, cadmium, lead, and semivolatile organic compounds (SVOCs). Analytical data from site characterization samples will be interpreted in accordance with NYSDEC Standards, Criteria, and Guidance (SCGs).

Tasks are further defined in subsequent sections, and include:

- Installation of soil borings
- Collection of surface and subsurface soil samples
- Installation of groundwater monitoring wells and collection of groundwater samples
- Collection of archive samples (if applicable)
- Submittal of a final summary report

## 1.2 Project Background

The Connector Street Site is an approximately 8.29-acre property located in the eastern portion of the City of Corning and is bounded by Route 414/Center Way to the west, I-86 to the north, and the properties within the Corning Study Area to the south and east. The Connector Street site is a right of way for the City of Corning. The NYSDEC site number is 851064 and a site location map is shown on **Figure 1**. Surrounding properties are shown on **Figure 2**.

Current property uses and zoning for this site is a public right of way. Much of the surrounding area is a former low area along the river that has been extensively filled from the 1930s, or earlier, to the early 1960s. Historic property deed records contain a condition that allowed Corning Glass Works to maintain ash dumps on neighboring properties.

The area is underlain by alluvial silts and fine sands. Site soils are likely derived from post-glacial flood-plain deposits that are expected to exhibit relatively low permeability. Based on the depth to groundwater observed at nearby sites (e.g., the Corning Study Area), groundwater likely exists within overburden sands. An assessment of local topography and proximity of the site to the Chemung River indicates groundwater will be encountered within twenty feet of ground surface and flows in a southeasterly direction.

Overburden soils in the vicinity of the site are likely underlain by Upper Devonian shale or siltstone. Bedrock depth at the site is unconfirmed but based on published information is likely more than 80 feet below ground surface. The bedrock is overlain by alluvial silts and fine sand derived from post-glacial floodplain deposits generally exhibiting relatively low permeability.

## SECTION 2 HEALTH AND SAFETY

A *Parsons' Safety, Health, and Environment Plan* (PSHEP; Parsons 2020a) has been prepared for the investigation activities. All personnel and subcontractors working on the project are required to follow this plan for the work covered in this work plan. Copies of the PSHEP will be maintained at the support zone.

Prior to the start of work, the subcontractors shall submit a Subcontractor Safety, Health, and Environment Plan (SSHEP) along with specific Activity Hazard Analyses (AHAs) for tasks to be performed under this work plan. Work cannot commence until SSHEP and AHAs are reviewed, and comments have been addressed. Copies of the SSHEP and AHAs will be maintained at the support zone.

A generic Community Air Monitoring Plan (CAMP) prepared for this contract will be implemented for real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the upwind and downwind perimeter of each designated work area during invasive activities on-site. These readings will be provided on a weekly basis with all exceedances reported to NYSDEC and NYSDOH the same day (or next business day if after hours) along with the following:

- the reason for the exceedance
- what was done to correct the exceedance
- if the correction was effective

The Plan will follow the NYSDOH Generic CAMP as further detailed in DER-10 Appendix 1A (NYSDEC 2010), and recommended response levels and action(s) will be implemented in the event of exceedance.

## SECTION 3 QUALITY CONTROL

### 3.1 Field Activities

Field activities will be conducted in accordance with the following documents, prepared by Parsons for the NYSDEC program (Parsons 2020a, 2020b, and 2020c):

- PSHEP
- generic Quality Assurance Project Plan (QAPP)
- Field Activities Plan (FAP)

Site-specific elements and specific AHAs for soil borings, surface soil sampling, and monitoring well installation will be added to the PSHEP, as needed. PFAS sampling will be performed in accordance with *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (NYSDEC 2021).

All proposed sample locations will be discussed with representatives of NYSDEC prior to implementation of this scope. Investigation/sample location may be modified with concurrence from NYSDEC.

### 3.2 Emerging Contaminants

Sampling will also be conducted for emerging contaminants as part of this investigation in general accordance with the applicable NYSDEC guidance, such as *Guidelines for Sampling and Analysis of PFAS* (NYSDEC 2021). One of these contaminants is per- and polyfluoroalkyl substances (PFAS) compounds. PFAS can be found in many standard environmental sampling materials, including fluoropolymer bailer/tubing, some decontamination solutions, and pump bladders/valves. Two of the principal target analytes – perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) – have been broadly utilized in the production of various everyday items such as: waterproof/stain-resistant clothing, non-stick cookware, and many commonly used plastics.

Another of the target analytes is 1,4-dioxane. This compound has been used in many products including the manufacturing of pharmaceuticals, personal care products, polyethylene terephthalate (PET) plastic, paint strippers, dyes, greases, varnishes and waxes.

The field activities and methods in the FAP include steps to prevent cross-contamination, and to avoid the introduction of external contaminant sources. These steps include, but are not limited to:

- use of sampling materials, tools, and personal protective equipment (PPE) that are known to be free of emerging contaminants
- use of compatible apparel
- hygiene considerations
- sample management considerations (e.g., sampling for PFAS prior to sampling for 1,4-dioxane)
- quality assurance/quality control (QA/QC) procedures
- use of source water and decontamination solutions that are demonstrated to be free of emerging contaminants

## SECTION 4 SURVEYS, INVESTIGATIONS, ENVIRONMENTAL SAMPLING, AND IMPLEMENTATION

Parsons' approach to the remedial investigation is described in the following sections. The overall program consists of a subsurface investigation, a groundwater investigation, and a surface soil investigation. Each portion of the investigation work will follow NYSDEC guidelines outlined in Division of Environmental Remediation (DER)-10 Technical Guidance document (NYSDEC 2010).

The overall program consists of:

1. Geophysical investigation (utility mapping)
2. Site survey of utilities and as-built investigation coordinates for soil borings/well locations
3. Surface and subsurface investigation soil borings
4. Monitoring well installation, development, and sampling

### 4.1 Field Preparation

#### 4.1.1 Utilities Location Investigation

During the development of the scope of work, Dig Safely New York was called to identify utilities in the Site area. A summary of utilities identified is provided in **Table 1**. Utilities were identified for City of Corning Department of Public Works (DPW) (water), New York State Electric and Gas (NYSEG) (electric), Southern Tier Network (fiber optic/cable), Verizon Syracuse (fiber optic/cable), and Charter Communications (communication lines). The highest concentrations of utilities were located along Pyrex Street from Corning Boulevard to South Place, and along Center Way/Route 414 from Corning Boulevard to I-86. Dig Safely New York ticket information and responses are included as **Attachment 1**.

In addition to calling Dig Safely New York, Parsons also contacted Corning Gas and the City Corning DPW to obtain additional utility information. Corning Gas indicated a gas line runs parallel to I-86, which intersects with the ends of High Street, Earl Street, Clara Street, and James Street. The City of Corning DPW indicated municipal water and sanitary sewer lines run along the streets in the study area and terminate at the ends of High Street, Earl Street, Clara Street, and James Street. The City of Corning DPW also indicated storm sewer lines run along the streets and also parallel to I-86 at the ends of High Street, Earl Street, Clara Street, and James Street. **Figure 3** shows the approximate locations of these utilities based on the information received from Corning Gas and City of Corning DPW.

Prior to intrusive work, Parsons will follow their pre-drill protocol (see **Attachment 1a**). Dig Safely New York will be called again prior to drilling activities. A geophysical utility locator will investigate and clear all boring locations for underground obstructions and utilities prior to drilling activities. Based on the locations of utilities, boring and well locations may need to be adjusted in the field. Parsons staff shall notify NYSDEC of any significant location changes made in the field (e.g., foregoing a sample, or moving a sample location to a new area).

Due to the number utilities present in the investigation area, each proposed boring location most likely will need to be further investigated for the presence of buried utilities or other obstructions. If necessary, three hand-cleared holes will be advanced to a depth of 5 feet using non-mechanical methods in a 3-foot by 3-foot by 3-foot triangular pattern around each sample location to identify potential utilities that cross through each sample location. Once all three locations have been advanced to 5 feet in depth and no utilities are identified, the proposed boring and/or well location can be completed in

the center of the triangle using a drill rig to target depth as stated in the original scope of work. No mechanized methods will be used within a minimum 24 inches of any marked utility locations. Additional requirements for use of mechanical equipment around utility lines may be required by the utility companies.

### 4.1.2 Site Layout and Proposed Boring Locations

The site characterization efforts will include the following proposed field sampling activities:

Matrix	Approach	Number of locations	Purpose
SOIL	Surface Soil	8	Sample collection, laboratory analyses
	Soil Borings (shallow)	12	Soil characterization, sample collection, laboratory analyses
	Soil Borings (deep)	3	Soil characterization, sample collection, laboratory analyses
GROUNDWATER			
	Monitoring Wells	3	Water table depth, sample collection, laboratory analyses

The site layout with proposed sampling locations is shown in **Figure 2**.

Initially, the proposed sampling locations will be roughly located with a handheld global positioning system (GPS) and will take into account surface and overhead features that may affect execution of field investigation activities. Following completion of the field investigation activities, a licensed professional land surveyor registered to practice in the State of New York will collect as-built data from the sample locations, as described in **Section 4.4 Site Survey**.

## 4.2 Soil Investigation

Soil characterization activities at the site consist of collection of 8 surface soil samples to a depth of 2 inches below ground surface (bgs), borings advanced at 12 locations throughout the site (SB-01 through SB 12) to a depth of 16 feet bgs, and three locations throughout the site (SB-13 through SB-15) to a depth of 35 feet bgs. The proposed locations for each sample location are shown on **Figure 2**. The proposed locations will be marked out during the site survey and will be verified following boring installation (**Section 4.4 Site Survey**).

Prior to intrusive work Dig Safe NY will be notified and a geophysical investigation will be conducted to identify underground utilities or buried obstructions at each proposed boring location as described in **Section 4.1.1 Utilities Location Investigation**.

### 4.2.1 Soil Boring Installation

Surface soil samples and soil borings will be advanced at the locations shown on **Figure 2**. Soil cores will be collected and logged continuously until borings are terminated. Soils will be visually classified using the Burmister (1970) and USCS (ASTM International 2018) soil classification systems. Soil descriptions will be recorded in the field notes or soil boring log form. Any non-native material present in the soil core will be noted and described (type, color, texture, moisture content, etc.) and any layer of fill material containing ash, brick and/or glass will be noted in the field logs. Photographs of recovered soils and any fill material containing ash, brick, and/or glass will be taken to provide in the final report. Each soil core will also be screened for the presence of VOCs with a photoionization detector (PID) and readings will be recorded on the boring log and/or field book.

Once the deeper soil borings have been advanced to their total depth, monitoring wells will be constructed in accordance with **Section 4.3.1 Monitoring Well Installation**. The ground surface around the well and surrounding area will be restored

to conditions prior to intrusive activities. Track mats may be used to access the boring locations and minimize ground disturbances.

Upon completion, each soil boring that will not have an installed monitoring well will be grouted from total depth to surface. After grouting is complete, the surface and surrounding area will be restored to conditions prior to intrusive activities. If required, access routes will also be restored.

Sampling equipment will be decontaminated between pushes and soil boring locations by washing equipment using a phosphate-free cleaning solution (e.g., Alconox) along with a distilled water rinse. All “down hole” drilling equipment will be decontaminated inside the decontamination pad, using a high-pressure steam wash.

Drill cuttings and decontamination rinsates will be containerized in 55-gallon steel drums and transported to a central waste staging area for further characterization and disposal.

### 4.2.2 Soil Boring Sampling

As previously noted in **Section 3.2 Emerging Contaminants**, care will be taken to prevent cross contamination of samples, especially introduction of emerging contaminants, into the samples. MacroCore samplers will be equipped with PFAS-free acetate liners. All necessary equipment, material, and supplies will be provided by the drilling subcontractor and will be compatible for collection of emerging contaminant samples (e.g., PFAS-free).

Surface soil samples will be collected from 0-2 inches and submitted for laboratory analysis. Soil boring samples will be collected from the following intervals and submitted for laboratory analysis:

- 0-6 inches
- 6-12 inches
- 12-24 inches
- Bottom interval of the boring

In addition to the intervals above, up to two additional soil samples will be collected and submitted for laboratory analysis based on the following criteria:

- If target fill material is encountered one sample will be collected from the target fill material itself, and another from the material directly below the fill layer.
- Highest PID reading, or other evidence of impacts such as staining or odors
- Interval directly above the water table

As shown on **Table 2**, all samples will be analyzed for total and TCLP metals (including mercury) and SVOCs. The remaining parameters will be analyzed on 20 percent of the samples collected at locations based on field observations. If insufficient volume is recovered for full analyses, material from the sample interval either above or below the target interval will be composited with the target interval and submitted for analysis. Additional soil samples may be submitted for laboratory analyses based on field observations and based on discussions with representatives of NYSDEC, if applicable. Except for soils that will be analyzed for VOCs, each soil sample collected for laboratory analysis will be field homogenized prior to placement in laboratory-supplied bottles.

Archive samples will be collected if target fill material/waste glass is encountered, as described in **Attachment 2**.

For QA/QC purposes, duplicate samples, equipment blanks and matrix spike/matrix spike duplicate (MS/MSD) samples will be collected and analyzed at a rate of one for every 20 field samples. Trip blanks will also be included in sample coolers containing field samples for VOC analyses; these trip blanks will be analyzed for Target Compound List (TCL) VOCs.

Results from the analytical sampling will be compared to Part 375 *Soil Cleanup Objectives* (SCOs; NYSDEC 2006).

## 4.3 Groundwater Investigation

Groundwater investigation activities at the site consist of installing three monitoring wells within the deeper soil borings described above. The proposed well locations are shown on **Figure 2**. The location, ground surface elevation, and top of casing elevation will be measured and recorded during the as-built survey (**Section 4.4 Site Survey**).

### 4.3.1 Monitoring Well Installation

Monitoring wells will be installed at the three deep soil boring locations (**Figure 2**). Each monitoring well will be constructed with 2-inch-diameter schedule 40 polyvinyl chloride (PVC) riser threaded with 10 feet of 2-inch-diameter schedule 40 PVC 0.010-slot screen. The screened interval should extend at least 2 feet above the water table interface unless field conditions warrant otherwise. Groundwater depth is estimated to be 20 feet bgs.

The annular space surrounding the well will be backfilled with clean sand from 6 inches below the bottom of the screen to 2 feet above the top of screen. A bentonite seal will be installed above the sand pack (estimated about 16 feet bgs) and either allowed to hydrate (in saturated conditions) or hydrated using potable water (in unsaturated conditions). Each well will be grouted from the top of bentonite to grade using a Portland cement and bentonite slurry grout. Each well will be completed with a flush-mount or stick-up protective cover set within a 2-foot-diameter concrete apron, whichever is more conducive to site conditions.

As noted in **Section 3.2 Emerging Contaminants**, care will be taken to prevent the introduction of emerging contaminants into the completed monitoring wells. Downhole drilling equipment will be decontaminated between wells as previously noted and the area around the wells (including access routes) will be restored to previous conditions.

All necessary equipment, material, and supplies used to advance the sampler, purge groundwater, and collect groundwater samples will be compatible with emergent contaminant sampling (e.g., PFAS-free).

### 4.3.2 Monitoring Well Development

Each new monitoring well will be developed to remove drilling fluid (if used during boring advancement), as well as any fine-grained material that may have settled in and around the well screen during well construction. Well development will be performed a minimum of 24 hours after grout has been installed to provide sufficient time for the grout to cure.

Well development activities will consist of purging water until the following criteria are met:

- Water quality parameters have stabilized for three successive measurements and purge water turbidity drops below 50 nephelometric turbidity units (NTUs), or
- A maximum of 10 well volumes have been removed.

Well development may be performed using a stainless steel or polyvinyl chloride (PVC) bailer, as well as a water pump paired with high-density polyethylene (HDPE) tubing and surge block. If the well goes dry during development, bailing or pumping will pause until 80 percent of the initial water level has recharged, at which point pumping or bailing will resume. The well will be considered developed once this process has been repeated, and the well has been pumped dry three times.

Development water will be temporarily contained using new 55-gallon steel drums, which will be staged on-site at a central investigation-derived waste (IDW) accumulation area (refer to **Section 4.5 Waste Handling**). The drilling subcontractor will provide drums of sufficient number and quality to containerize well development water, and will provide the equipment, personnel, and materials necessary to transport IDW from the investigation location to the central IDW accumulation area. Parsons will be responsible for collecting waste characterization samples and coordinating subsequent disposal.



### 4.3.3 Monitoring Well Sampling

One round of groundwater sampling will be conducted at each of newly installed monitoring wells at least one week after well development using low-flow sampling techniques. Prior to sampling, the water level in each boring will be measured and recorded to the nearest 0.01-foot using a PFAS-free electronic water level meter. Well sampling will commence once water quality parameters are stable for three consecutive readings. The stabilization guidelines are as follows:

- Temperature  $\pm 10\%$  of measurement
- pH  $\pm 0.1$  pH units
- Specific conductance  $\pm 3\%$  of measurement
- Redox  $\pm 10$  mV
- Dissolved oxygen  $\pm 10\%$  of measurement
- Turbidity  $\pm 10\%$  of measurement, or under 10 NTUs

Dedicated and disposable groundwater sampling equipment (e.g., tubing) will be used for sample collection. Any non-dedicated or non-disposable equipment (e.g., water level meter) will be decontaminated between samples by washing equipment with phosphate-free solution followed by a PFAS-free distilled water rinse. Purge water and decontamination water will be transferred to drums for characterization and disposal.

As previously noted in **Section 3.2 Emerging Contaminants**, care will be taken to prevent cross contamination of samples, especially introduction of emerging contaminants into the samples. Any non-dedicated well sampling equipment will be decontaminated between well locations.

Groundwater samples will be analyzed as shown in **Table 2**. For QA/QC purposes, one of each of the following will be collected and analyzed: duplicate sample, equipment blank, and matrix spike/matrix spike duplicate (MS/MSD) sample. Trip blanks will also be included in sample coolers containing field samples for VOC analyses; these trip blanks will be analyzed for Target Compound List (TCL) VOCs.

Laboratory analytical results will be compared to NYSDEC Class GA Ambient Water Quality Standards presented in *Technical and Operational Guidance Series 1.1.1* (NYSDEC 1998). Emergent contaminant analytical results (PFAS and 1,4-dioxane) will be compared to NYSDOH Minimum Contaminant Levels (MCLs) as presented in the *New York State Sanitary Code* (SSC) 10 NYCRR Part 5.

## 4.4 Site Survey

Following the completion of investigation activities, a licensed professional land surveyor registered to practice in the State of New York will collect as-built data from the sample locations.

The following as-built data will be collected for soil borings:

- Northing
- Easting
- Ground surface elevation

The following as-built data will be collected for monitoring wells:

- Northing
- Easting
- Ground surface elevation
- Top of riser elevation
- Top of protective casing/flush mount elevation

Horizontal survey data will be based on the North American Datum of 1983 (NAD 83) New York State Plane (Central Zone) coordinate system (in feet). Elevations will be based on the North American Vertical Datum of 1988 (NAVD 88).



## 4.5 Waste Handling

Investigation-derived waste (IDW), including excess soils from sample locations, decontamination rinsates, purge water, and other used materials (such as PPE, acetate Geoprobe liners, poly sheeting, etc.) will be placed in Department of Transportation-approved 55-gallon 17-H type drums. The IDW will be classified as hazardous or non-hazardous based on characterization results and will be disposed of in accordance with applicable NYSDEC regulations. Appropriate equipment capable of handling and/or moving IDW stored to the designated waste storage area will be used, and IDW drums will be stored in an area lined with polyurethane sheeting for secondary containment.

## SECTION 5 REPORT PREPARATION

Data obtained during the field investigations identified in this scope of work will be validated, evaluated, and summarized. A Site Characterization Report will then be prepared following completion of the investigation and receipt of analytical data. This report will document investigation activities specified in this work plan.

Chemical analytical results for soil and groundwater will be compared to 6 NYCRR Part 375 (NYSDEC, 2006) guidelines for various potential future land uses and State of New York Class GA water quality standards, respectively.

The document will include Category B data validation, and an evaluation of data for reclassification/delisting, or continuation of next steps of the site characterization.

## SECTION 6 SCHEDULE

Following approval of this Work Plan by NYSDEC, the schedule shown below will be implemented. The work scope described herein is assumed to be completed during 2022.

Task Name	Start	Finish
Geophysical Investigation & Utilities Demarcation	Week 1	Week 1
Drilling Mobilization	Week 1	Week 2
Drilling/Soil Sampling/Well Installation/Well Development	Week 2	Week 3
Groundwater Sampling	Week 4	Week 4
As-built Coordinates and Elevations Survey	Week 4	Week 4
Data Management and Reporting Tasks	2 months after completion of field activities	

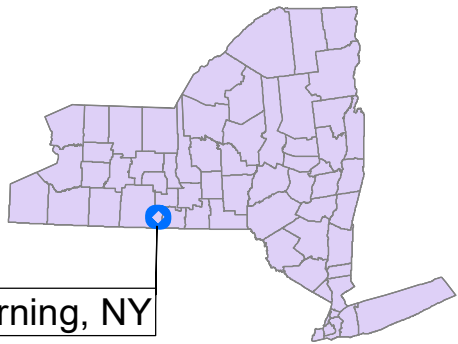
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## FIGURES





Corning, NY

 Site Boundary

0 155 310 620  
 Feet

**Figure 1:  
Site Location**



**Department of  
Environmental  
Conservation**

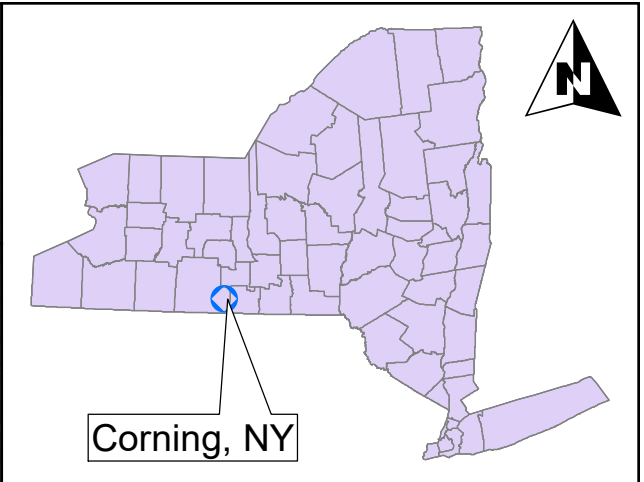
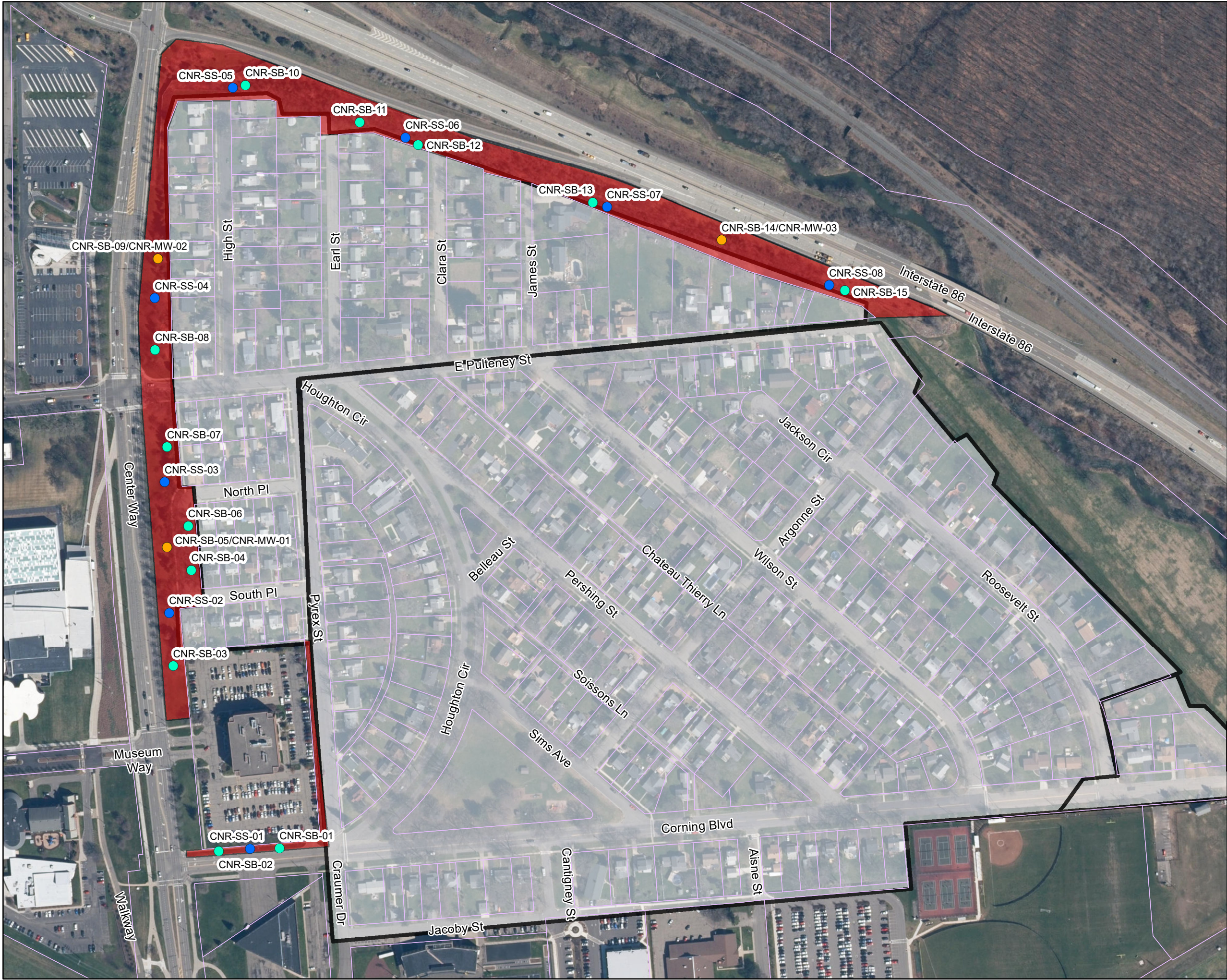


**Department  
of Health**

**PARSONS**

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560





Surface Soil Sample Location

Soil Borings/Groundwater Monitoring Wells to 35' bgs

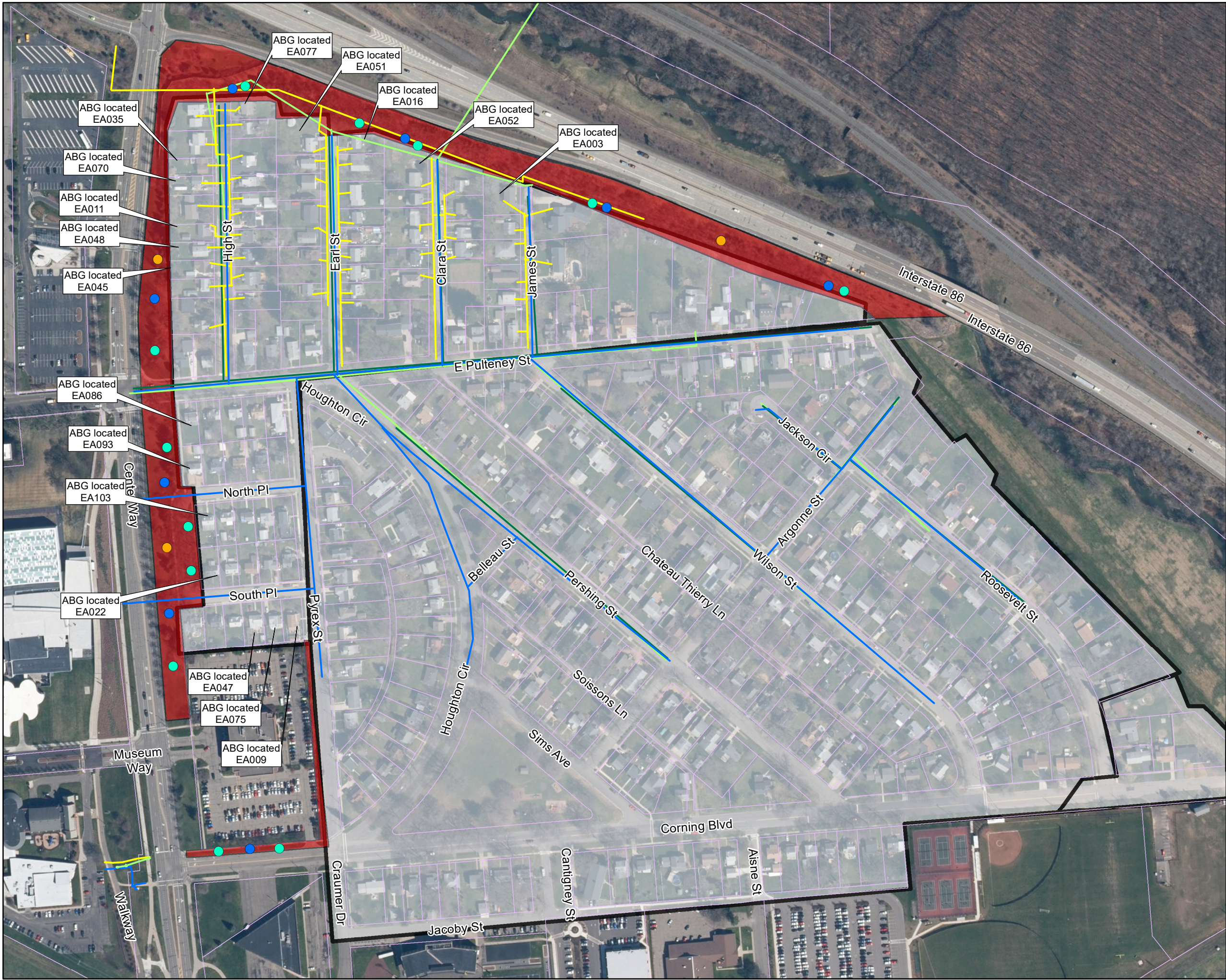
Soil Borings to 16' bgs

Tax Parcel Boundary

0155310620

Feet





Corning, NY

● Surface Soil Sample Location

● Soil Borings/Groundwater Monitoring Wells to 35' bgs

● Soil Borings to 16' bgs

— Estimated Water Lines

— Estimated Gas Lines

— Estimated Sanitary Sewer Lines

— Estimated Storm Sewer Lines

— Tax Parcel Boundary

0 155 310 620

Feet

**Figure 3:**  
**Approximate Location of Utilities**

NEW YORK  
STATE OF  
OPPORTUNITY

Department of  
Environmental  
Conservation

NEW YORK  
STATE OF  
OPPORTUNITY

Department of  
Health

**PARSONS**

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 \* 315-451-9560





## TABLES

**TABLE 2**  
**ANALYTICAL DATA SUMMARY FOR SITE CHARACTERIZATION**  
**CONNECTOR STREET SITE, CORNING NEW YORK**

Task	Sample Type	Analysis	Method	Turn-Around-Time	Samples	QA/QC Samples						Total
						Duplicate	Equipment Blank	Trip Blank	Field Blank	MS	MSD	
<b>Soil Boring Sampling<sup>1,3,5</sup></b>	Soil	Metals	SW6010D/SW7471B	Standard	90	5	0	0	0	5	5	<b>105</b>
	Soil	TCLP Metals	SW6010C/SW7470A	Standard	90	5	0	0	0	5	5	<b>105</b>
	Soil	SVOCs+1,4-Dioxane	SW8270D	Standard	90	5	0	0	0	5	5	<b>105</b>
	Soil	Cyanide	SW9012B	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	VOCs	SW8260C	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	Pesticides	SW8081B	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	PCBs + Total	SW8082A	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	Herbicides	SW8151A	Standard	18	1	0	0	0	1	1	<b>21</b>
<b>Surface Soil Sampling<sup>1,5</sup></b>	Soil	TPH	EPA 1664 (SGT HEM)	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	PFAS	Modified EPA 537.1	Standard	18	1	0	0	0	1	1	<b>21</b>
	Soil	Metals	SW6010D/SW7471B	Standard	8	1	0	0	0	1	1	<b>11</b>
	Soil	TCLP Metals	SW6010C/SW7470A	Standard	8	1	0	0	0	1	1	<b>11</b>
	Soil	SVOCs+1,4-Dioxane	SW8270D	Standard	8	1	0	0	0	1	1	<b>11</b>
	Soil	Cyanide	SW9012B	Standard	2	1	0	0	0	1	1	<b>5</b>
	Soil	VOCs	SW8260C	Standard	2	1	0	0	0	1	1	<b>5</b>
	Soil	Pesticides	SW8081B	Standard	2	1	0	0	0	1	1	<b>5</b>
<b>Groundwater Sampling<sup>4</sup></b>	Soil	PCBs + Total	SW8082A	Standard	2	1	0	0	0	1	1	<b>5</b>
	Soil	Herbicides	SW8151A	Standard	2	1	0	0	0	1	1	<b>5</b>
	Soil	TPH	EPA 1664 (SGT HEM)	Standard	2	1	0	0	0	1	1	<b>5</b>
	Soil	PFAS	Modified EPA 537.1	Standard	2	1	0	0	0	1	1	<b>5</b>
	Groundwater	VOCs	SW8260C	Standard	3	1	1	1	1	1	1	<b>9</b>
	Groundwater	SVOCs + 1,4-Dioxane	SW8270D/SW8270D SIM	Standard	3	1	1	0	1	1	1	<b>8</b>
	Groundwater	Pesticides	SW8081A	Standard	3	1	1	0	1	1	1	<b>8</b>
	Groundwater	PCBs + Total	SW8082A	Standard	3	1	1	0	1	1	1	<b>8</b>
<b>Groundwater Sampling<sup>4</sup></b>	Groundwater	Herbicides	SW8151A	Standard	3	1	1	0	1	1	1	<b>8</b>
	Groundwater	Metals	SW6010D/SW7470A	Standard	3	1	1	0	1	1	1	<b>8</b>
	Groundwater	TPH	EPA 1664 (SGT HEM)	Standard	3	1	1	0	1	1	1	<b>8</b>
	Groundwater	PFAS	Modified EPA 537.1	Standard	3	1	1	0	1	1	1	<b>8</b>

**Table 1**  
**Dig Safely New York Utility Summaries**  
**Connector Street Site**  
**Corning, New York**

Date	Dig Safely New York Ticket Number	Portion of Site	Discussion
10/5/2021	10011-001-361	Pyrex Street, from Corning Boulevard to South Place	City of Corning DPW responded for water. NYSEG responded for electric. Southern Tier Network responded for fiber optic/cable. Verizon Syracuse responded for fiber optic/cable. Charter Communications, Corning Glass Works, and Corning Incorporated responded that the area was clear of their utilities.
10/5/2021	10011-001-354	Corning Boulevard, from Pyrex Street to Center Way/Route 414	City of Corning DPW responded for water. Verizon Syracuse responded for fiber optic/cable. Charter Communications, Corning Glass Works, Corning Incorporated, NYSDOT, NYSEG, and Southern Tier Network responded that the area was clear of their utilities.
10/5/2021	10011-001-347	Center Way/Route 414, from Corning Boulevard to Museum Way	City of Corning DPW responded for water. Charter Communications, Corning Glass Works, Corning Incorporated, NYSDOT, NYSEG, and Verizon Syracuse responded that the area was clear of their utilities.
10/5/2021	10011-001-340	Center Way/Route 414, from Museum Way to East Pulteney Street	Charter Communications responded for communication lines. City of Corning DPW responded for water. Southern Tier Network responded for fiber optic/cable. Verizon Syracuse responded for fiber optic/cable. Corning Glass Works, Corning Incorporated, Finger Lakes Technologies Group, Firstlight Fiber, NYSDOT, and NYSEG responded that the area was clear of their utilities.
10/5/2021	10011-001-321	Center Way/Route 414, from East Pulteney Street to I-86	City of Corning DPW responded for water. Southern Tier Network responded for fiber optic/cable. Verizon Syracuse responded for fiber optic/cable. Charter Communications, Corning, Corning Glass Works, Corning Incorporated, Finger Lakes Technologies Group, Firstlight Fiber, NYSDOT, and NYSEG responded that the area was clear of their utilities.
10/5/2021	10011-001-252	NYSDOT Right-of-Way along I-86 from Center Way/Route 414 to the end of East Pulteney Street	City of Corning DPW responded for water. Corning Glass Works, Corning Incorporated, NYSDOT, NYSEG, and the Town of Corning responded that the area was clear of their utilities.

**TABLE 2**  
**ANALYTICAL DATA SUMMARY FOR SITE CHARACTERIZATION**  
**CONNECTOR STREET SITE, CORNING NEW YORK**

Task	Sample Type	Analysis	Method	Turn-Around-Time	Samples	QA/QC Samples						Total
						Duplicate	Equipment Blank	Trip Blank	Field Blank	MS	MSD	
<b>Waste Characterization Sampling</b>	Soil	TCLP	SW1311	Standard	1	0	0	0	0	0	0	1
	Soil	TCLP Volatiles	SW8260C	Standard	1	0	0	0	0	0	0	1
	Soil	TCLP Semivolatiles	SW8270D	Standard	1	0	0	0	0	0	0	1
	Soil	TCLP Pesticides	SW8081B	Standard	1	0	0	0	0	0	0	1
	Soil	TCLP Herbicides	SW8151A	Standard	1	0	0	0	0	0	0	1
	Soil	TCLP Metals	SW6010C/SW7470A	Standard	1	0	0	0	0	0	0	1
	Soil	PCBs + Total	SW8082A	Standard	1	0	0	0	0	0	0	1
	Soil	Corrosivity	SW9045	Standard	1	0	0	0	0	0	0	1
	Soil	Ignitability	SW1030	Standard	1	0	0	0	0	0	0	1
	Soil	Reactivity (Cyanide and Sulfide)	SW7.3.3.2/SW7.3.4.2	Standard	1	0	0	0	0	0	0	1
	Water	VOCs	SW8260C	Standard	1	0	0	0	0	0	0	1
	Water	SVOCs	SW8270D	Standard	1	0	0	0	0	0	0	1
	Water	Pesticides	SW8081B	Standard	1	0	0	0	0	0	0	1
	Water	Herbicides	SW8151A	Standard	1	0	0	0	0	0	0	1
	Water	Total Cyanide	SW9012B	Standard	1	0	0	0	0	0	0	1
	Water	PCBs + Total	SW8082A	Standard	1	0	0	0	0	0	0	1
	Water	Metals	SW6010D/SW7470A	Standard	1	0	0	0	0	0	0	1
	Water	Corrosivity (pH)	SW9040	Standard	1	0	0	0	0	0	0	1
	Water	Flashpoint	SW1010	Standard	1	0	0	0	0	0	0	1
	Water	Reactivity (Cyanide and Sulfide)	SW7.3.3.2/SW7.3.4.2	Standard	1	0	0	0	0	0	0	1

**NOTES:**

1. NYCRR Subpart 375 Compounds
2. NYSDEC Screening and Assessment of Contaminated Sediment
3. An additional soil sample will be collected from native materials directly under any ash/brick/glass layer encountered
4. NYSDEC Ambient Water Quality Standard TOGS 1.1.1
5. Analysis of Cyanide, VOCs, Pesticides, PCBs + Total, Herbicides, TPH, PFAS, and Organic Carbon(sediment only) will be submitted for 20% of samples.



## ATTACHMENTS



## ATTACHMENT 1

# DIG SAFELY NEW YORK TICKET INFORMATION AND RESPONSES

**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-252  
**Date:** Tuesday, October 5, 2021 2:59:28 PM

---

This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-252

NY : STEUBEN County, CORNING  
RT 414

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - WATER 10

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT –BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607-936-3755 EXT 246 MAPPING

NYS DOT HORNELL REGION 6

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYSEG ELMIRA ELECTRIC

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

TOWN OF CORNING

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

For the most up-to-date response status please visit [exactix.digsafelynewyork.com](http://exactix.digsafelynewyork.com) or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.





**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-321  
**Date:** Tuesday, October 5, 2021 2:59:34 PM

---

This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-321

NY : STEUBEN County, CORNING  
RT 414

CHARTER COMMUNICATIONS CORNING

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - WATER 10

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT -BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607-936-3755 EXT 246 MAPPING

FINGER LAKES TECHNOLOGIES GROUP

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

FIRSTLIGHT FIBER

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYS DOT HORNELL REGION 6

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYSEG ELMIRA ELECTRIC

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

SOUTHERN TIER NETWORK

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES  
WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED

Comment - No Comment

VERIZON SYRACUSE

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES  
WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED

Comment - No Comment

For the most up-to-date response status please visit [exactix.digsafelynewyork.com](http://exactix.digsafelynewyork.com)  
or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice,  
facility operators have until the stated commencement date and time to provide  
a response status.

**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-340  
**Date:** Tuesday, October 5, 2021 2:58:10 PM

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This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-340

NY : STEUBEN County, CORNING  
RT 414

CHARTER COMMUNICATIONS CORNING

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT -BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607-936-3755 EXT 246 MAPPING

FINGER LAKES TECHNOLOGIES GROUP

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - 2021/10/05 08:03 MARKED TWC COAX AND FIBER FROM DROP ON POLE ON SOUTH PLACE OVER HILL TO ACROSS ROAD

FIRSTLIGHT FIBER

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - 2021/10/05 08:03 MARKED TWC COAX AND FIBER FROM DROP ON POLE ON SOUTH PLACE OVER HILL TO ACROSS ROAD

NYS DOT HORNELL REGION 6

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYSEG ELMIRA ELECTRIC

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA

Comment - No Comment

SOUTHERN TIER NETWORK

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED

Comment - No Comment

VERIZON SYRACUSE

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED

Comment - No Comment

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For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.

**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-347  
**Date:** Tuesday, October 5, 2021 2:58:44 PM

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This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-347

NY : STEUBEN County, CORNING  
CENTERWAY

CHARTER COMMUNICATIONS CORNING

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT –BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607-936-3755 EXT 246 MAPPING

NYS DOT HORNELL REGION 6

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYSEG ELMIRA ELECTRIC

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

VERIZON SYRACUSE

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

For the most up-to-date response status please visit [exactix.digsafelynewyork.com](http://exactix.digsafelynewyork.com) or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.

**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-354  
**Date:** Tuesday, October 5, 2021 4:56:13 PM

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This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-354

NY : STEUBEN County, CORNING  
CORNING BLVD

CHARTER COMMUNICATIONS CORNING

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - WATER 10

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT -BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607 936-3755 EXT 246 MAPPING

NYS DOT HORNELL REGION 6

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

NYSEG ELMIRA ELECTRIC

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

SOUTHERN TIER NETWORK

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

VERIZON SYRACUSE

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED

Comment - No Comment

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For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.



**From:** [Dig Safely New York Exactix](#)  
**To:** [Hennessy, Elizabeth](#)  
**Subject:** [EXTERNAL] Responses for Dig Safely New York, Inc. (DSNY) locate request 10011-001-361  
**Date:** Tuesday, October 5, 2021 4:54:35 PM

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This is a message from Dig Safely New York's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 10011-001-361

NY : STEUBEN County, CORNING  
PYREX ST

CHARTER COMMUNICATIONS CORNING

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CITY OF CORNING DPW

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - DPW 81

CORNING GLASS WORKS

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - CORNING GLASS WORKS HAS NO CABLING TO MARK IN THE AREA DEFINED BY THIS DIG REQUEST. CONTACT -BILL MCGETTRICK AT 974-4610 WITH QUESTIONS. PROVIDED RESPONSE TO SUBMITTER VIA DSNY ELECTRONIC RESPONSE.

CORNING INCORPORATED

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
- Comment - No Comment

CORNING NATURAL GAS CORPORATION

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
- Comment - CONTACT JIM KOSTY 607-936-3755 EXT 246 MAPPING

NYSEG ELMIRA ELECTRIC

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

SOUTHERN TIER NETWORK

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

VERIZON SYRACUSE

- MARKED, THE APPROXIMATE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA HAVE BEEN MARKED
- Comment - No Comment

For the most up-to-date response status please visit [exactix.digsafelynewyork.com](http://exactix.digsafelynewyork.com) or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.



## ATTACHMENT 2

## PARSONS PRE-CLEARING PROTOCOL

## **PARSONS ENVIRONMENT & INFRASTRUCTURE GROUP MANDATORY SUBSURFACE SOIL DISTURBANCE PROTOCOL**

---

### **1. INTRODUCTION**

Intrusive investigation or excavation of the subsurface in areas developed for commercial, industrial or residential use exposes Parsons to the risk of causing damage to underground utilities and structures on a daily basis.

The potential consequences of causing damage to an underground utility or structure include, but are not limited to the following:

- Injury or loss of life
- Financial responsibility for repair, lost time, and/or loss of service
- Loss of client
- Federal investigation of job site work practices
- Litigation (third party lawsuits)

The mandatory protocol and checklists provided herein are intended as tools to aid in the management of risk, and ensure that a responsible standard is consistently applied at project sites where intrusion of the subsurface will occur.

### **2. PURPOSE**

The purpose of this mandatory protocol is the prevention of potential injury and/or loss of life; and damage to subsurface utilities and structures. Parsons' staff will identify and evaluate the hazards associated with underground utilities and other structures prior to conducting any intrusive subsurface operation including but not limited to drilling/boring, test pitting, excavation and other subsurface intrusive activities.

### **3. SCOPE**

Parsons' staff will employ sound investigative and work practices, and will use appropriate measures to avoid damage to subsurface utilities and structures. Furthermore, Parsons requires that these procedures be implemented by all of Parsons' employees and subcontractors, as appropriate. Subcontractors will have a copy of the procedures set forth in Section 6 of this document as an appendix to their contracts.

#### **4. POLICY**

Parsons' policy requires that the project manager follow all local, state, and federal laws applying to intrusive subsurface work (i.e. obtain permits, inform agencies, obtain utility clearances, etc). The project manager shall review, as available, all current and historical site drawings and plans from the client, facility owner or tenant, utility providers, municipal government offices (i.e. city engineer or building department) and third parties as appropriate.

The Pre-Drilling/Subsurface Checklist for Intrusive Fieldwork (**Attachment A**) shall be completed prior to initiating fieldwork. Note: *The checklist includes a site visit as a requisite to meet with knowledgeable staff as appropriate (current or former site/owner personnel, utility representatives, municipal representatives, etc.), and review site conditions and features relative to the proposed locations for intrusive work. The checklist should be turned in to the Parsons Project Manager and a copy placed in the project file.*

The procedure described under Section 6 of this document is mandatory at all sites where any intrusive subsurface activities will take place, including but not limited to drilling, augering, boring, excavating, test pitting, trenching or direct push (Geoprobe) technology.

Variance from the Subsurface Soil Disturbance Protocol is allowed only with the written approval from the appropriate Parsons' Program Manager or Sector Leader and the completion of the Utility Clearance Variance Request Form (Attachment B). GBU, Division or Project Safety personnel should be consulted as needed. Failure to obtain a variance in writing is grounds for disciplinary action. Copies of all variances will be maintained in the project files.

The Project Manager is encouraged to find locations that are acceptable to the project team to perform intrusive subsurface work that are not within right-of-ways, streets, highways, or near municipal or third party-owned utility corridors. When it is necessary to conduct work within these areas, the Project Manager should obtain approval from either the Program Manager or Sector Leader and submit the existing work plan to the GBU or Division Safety Manager for review.

#### **5. RESPONSIBILITY**

It is the responsibility of the Project Manager to ensure that the Pre-Drilling/Subsurface Checklist for Intrusive Fieldwork and Utility Clearance Variance Request form are followed. If a variance is sought, it is the responsibility of the Project manager to gain written approval of the appropriate Parsons' Program Manager or Sector Leader.

#### **6. PROCEDURE: SUBSURFACE SOIL DISTURBANCE PROTOCOL**

The Parsons' Project Manager will be responsible for fulfilling the objectives of this protocol by ensuring that the procedures are carried out by Parsons' employees, subcontractors, and any other person acting on behalf of Parsons. The Parsons' Project Manager will ensure that all individuals working on drilling and other subsurface exploration projects are adequately trained and supervised. Parsons will practice sound investigation and work practices and employ

## **PE&I Subsurface Soil Disturbance Protocol**

all necessary measures to avoid damage to subsurface systems and structures. The Parsons' Program Manager or Sector Leader will be contacted and advised in advance of beginning field work in the event that a variance to this protocol is requested by the Parsons' Project Manager or designee. The following tasks/subtasks will be completed at every site and documented on the checklist.

### **6.1 PRE-INVESTIGATION TASKS**

The objective of these tasks is to gather all relevant information about the site to assist in identifying exploration locations and obtaining necessary permits. Please note that in some instances the following information will be obtained or gathered by a subcontractor, which meets this objective.

#### **6.1.1 Obtain Site Plans**

Obtain as-built drawings and/or existing site plans as available. NOTE: As-built drawings may not accurately depict the locations of improvements and subsurface features and should therefore not be solely relied upon to determine acceptable locations for intrusive subsurface activities.

#### **6.1.2 Obtain Permits**

The project staff will observe all local, state, and federal laws, obtain all necessary permits and utility clearances, and secure site access permission. NOTE: Some permits/clearances require this step to be completed after the exploration locations have been identified and marked in the field. If this is required, proceed with Items 6.2 and 6.3 prior to obtaining permits.

#### **6.1.3 Utility Mark-outs**

Parsons' project staff will request a utility mark-out through the local utility locating one-call system for the work site, and document a reasonable degree of effort to locate all main electrical, gas, telephone and all other subsurface utilities. The Parsons' Project Manager must be notified of the status of locating underground utilities before field work progresses. If locating utilities becomes problematic, the Parsons' Project Manager should update the client and discuss potential alternative methods for locating or reducing risk of damage to underground utilities/structures for consideration (i.e. subcontract a private locating service, re-evaluate risk/reward of specific locations or utilize intrusive non-destructive methods as described in Section 6.5.6). Site plans will be updated as appropriate to include utility mark-out information. On third party sites, close coordination with the site owner's representatives for mark-outs, review of as-builts, and other information reviews should be conducted prior to work. NOTE: Some utilities require the exploration locations to be identified and marked in the field prior to performing mark-outs. If this is required proceed with Items 6.2 and 6.3 prior to obtaining permits.

## **6.2 SITE VISIT**

A site visit is required to compare the site plan to actual conditions, document all findings, and update the site plan. Parsons will obtain information needed to prepare a vicinity map of the area that may include significant neighboring addresses, land use, surface water bodies, and other natural as well as manmade features of note, as appropriate. The site visit should be scheduled concurrent with, or soon after the utility mark-out. The inspection should include the following activities at a minimum.

### **6.2.1 Utilities**

Note the location of all utility mark-outs and aboveground utilities:

- Area lights
- Phones
- Drain lines
- Overhead lines
- Fire hydrants
- Fiber optic cable signage
- Catch basins
- Manholes
- Junction boxes
- Natural gas
- Other utilities
- Observe paving scars such as areas of new pavement or saw cuts

### **6.2.2 Plant/Property Systems**

If possible, speak with someone having historical site knowledge to gain information about the site (locations of former tanks, lines, etc.). For UST systems:

- Inspect for the presence of a dispenser pan and, if possible, determine whether product piping is rigid or flexible.
- Visually inspect the location of the tank field, observation wells (if present), dispensers and vent stack(s).

## **PE&I Subsurface Soil Disturbance Protocol**

- Note the orientation, arrangement, location, sizes, etc. of the tanks and manholes. Estimate the burial depth of the tank field.
- Observe paving scars (i.e. fresh asphalt/concrete patches, scored asphalt/concrete). Note that this may not indicate location of product piping.

### **6.2.3 Existing Remediation Systems**

Visually inspect the location of aboveground components. Note the locations of well manholes, sparge points, etc.

### **6.2.4 Safety**

For UST systems, note the location of the emergency shut off switch and become familiar with its use.

## **6.3 SELECTION OF DRILLING/TEST PIT LOCATIONS**

### **6.3.1 Critical Zones**

Establish pre-drilling critical zones appropriate to the project site. These are zones where no drilling (if possible and if client concurs) will be conducted. As an example, the following critical zones could be applied at a UST site:

- 10ft (3m) distance from the furthest edge of any operating tank
- 10ft (3m) distance surrounding operating dispenser islands
- At active service station sites, the entire area between the tank field and the dispenser islands.
- The zone between 0 and 5-feet of utility markings

### **6.3.2 Select Drilling Locations**

The information collected to this point will be utilized in combination with regulatory requirements and investigation objectives to select drilling locations. It is recommended that alternate drilling locations be selected in case additional explorations are required or obstructions are encountered. The effort to investigate a specific proposed drilling location should be to clear a minimum five-foot radius circle around the location.

### **6.3.3 Review Selected Locations with the Client**

At a minimum, offer to review the selected and alternate drilling locations with the client's project manager or designated representative. When completing Geoprobe™ (or similar) investigations in which some boring locations are not selected in advance, but partially



## **PE&I Subsurface Soil Disturbance Protocol**

determined in the field based on field screening results, the client should approve the areas in which work will be performed. Do not proceed with the investigation until the plan has been discussed with the client, and approval to proceed has been granted. If relocation of a boring outside approved limits is necessary at any time and for any reason, contact the client prior to proceeding. **CLIENT APPROVAL MUST BE DOCUMENTED.** Verbal approval is acceptable if followed with written approval. Documentation may include a notation in the field book, email or written correspondence.

### **6.4. REQUIRED NOTIFICATIONS**

Affected parties must be notified at least 48-hours (longer if possible) in advance of planned intrusive fieldwork. An exception would be in the event of an emergency response situation. Parsons' staff will avoid scheduling conflicts with facility activities at the site. The Parsons' Project Manager or designee will notify the following persons as applicable:

- The oversight regulatory agency (includes local fire, police and municipal contacts as appropriate).
- Property owner for private properties. This should include neighboring third party property owners if a potential exists for causing inconvenience as a result of the scheduled fieldwork.
- Client specific notifications as appropriate (i.e. facility maintenance, retail and/or real estate managers as appropriate)

### **6.5. ON-SITE SUBSURFACE ACTIVITIES**

#### **6.5.1 Safety**

A Project Safety, Health and Environmental Plan (PSHEP) must be available on site at all times and all Parsons' staff, contractors and subcontractors must be familiar with it. Parsons' employees are to acknowledge their review of the PSHEP by signing the signature form contained within the PSHEP. The Parsons' field team leader is tasked with conducting a tailgate meeting at the start of each day to review project specific health and safety items with staff and subcontractors. Subcontractors, however, are responsible for their own health and safety. All work areas shall be secured with safety cones, safety tape, construction fence, barricades, or signs as appropriate.

A copy of this entire subsurface activity protocol and completed checklist must be appended to the health and safety plan.

#### **6.5.2 Supervision**

A Parsons' on-site representative will be responsible for overseeing subsurface activities. This representative will ensure that the work is performed with due caution and will be alert for warning signs that could indicate the presence of underground tanks, lines, or other subsurface structures.

### **6.5.3 Warning Signs**

The following warning signs may indicate the presence of a subsurface structure such as tanks or lines:

- Pea Gravel/Sand/Non-indigenous Material.
- The absence of soil recovery in the hand auger. This could indicate pea gravel that has spilled out of the auger.
- Any unexpected departure from the native soil or groundwater conditions as established in other on-site digging.
- Obstructions encountered

If any of the above warning signs or a suspicious condition is encountered, intrusive subsurface activities in this area should immediately cease and the Parsons' Project Manager shall be contacted.

### **6.5.4 Drill Boring Sequence**

If possible, the boring sequence should be planned such that the boring furthest from any suspected underground improvements is carried out first. This is done to determine the natural subsurface conditions and to allow the field geologist/scientist to recognize native versus fill conditions. Also, least impacted locations should be done first if possible to prevent possible cross contamination.

### **6.5.5 Surface Removal for Paved Areas**

Sufficient paving or surface improvement should be removed to allow clear visibility of the subsurface conditions during hand augering/digging, and allow excavation with hand tools. Drilling in an area of high risk may warrant a larger pavement opening.

- Monitoring Well Installations: 2-ft x 2-ft (60cm x 60cm) minimum removal is suggested (assumes for example: 6.25-inch hollow stem auger (HSA) or smaller).
- Soil Borings: 8-inch (20cm) diameter minimum removal is suggested (assumes for example: 3.25-inch HAS or smaller).
- Direct Push Samplers: 4 to 6 inch (10 to 15 cm) diameter minimum removal is suggested (assumes for example: 2-inch diameter sample tube).

The technique used should not pose a threat to subsurface structures. Final completion for holes in pavement shall be neatly saw-cut or cored unless otherwise directed by the client.

### **6.5.6 Clearing the Subsurface for Utilities and Other Structures**

Parsons' staff must ensure that no subsurface utilities, structures, or improvements exist where intrusive subsurface activities will occur. Locations will be cleared using results of historical data research and with geophysical methods (see below for details) at a zone 5 feet in radius around the proposed location. Staff (or personnel supervised by Parsons) will also utilize intrusive, non-destructive procedures such as hand digging to a depth of 5 feet and a diameter or width equivalent to the outside dimensions of the auger to investigate the boring location.

The method used to delineate the subsurface should be compatible with the inherent risk associated with the type of facility/property and the location of the drilling. Proactive investigative methods to clear specific drilling locations will include the following non-invasive and invasive non-destructive methods:

**Non-Invasive Geophysical Remote Sensing:** Multiple appropriate instruments (ground penetrating radar, electromagnetic detector, magnetometer, metal detector) can be used for this work. Survey an area around the location to a distance of 5 feet using geophysical methods to identify potential subsurface utilities or facilities. Move the borehole location, if necessary, within the cleared circle to avoid an object identified by the geophysical instrument. Examples of geophysical methods are provided below:

- Electromagnetic and radio frequency;
- Ferrous metal or magnetic locators;
- Ground probing radar (GPR).

**Important note:** A combination of two or more non-invasive instruments may be required to properly clear a subsurface area. For example, a ferrous metal detector may not detect metals pipes embedded in concrete duct banks, PVC pipes, FRP pipes, or other non-ferrous materials.

**Intrusive Non-Destructive Procedures:** Delineate the subsurface at the borehole location by probing or digging. Several acceptable methods are discussed below. In some cases, these intrusive procedures may not be practical due to the subsurface conditions or requirements of the explorations.

- **Vacuum/Air Knife Digging:** Vacuum digging has proven to be a very effective and safe means of digging and is recommended instead of probing and digging with hand tools.
- **Probing:** The probe should have a blunt or rounded tip and should be advanced by hand in a triangular pattern around the bore location without excessive force.
- **Hand Digging:** Should be performed with a small hand garden spade.

## PE&I Subsurface Soil Disturbance Protocol

- Hand Augering: The auger is to be turned slowly and not forced through the soil. It is recommended that an auger without sharp points (some augers have rounded edges) be used.
- Post Hole Digging: Can be used for soil removal only in soil that has been probed and cannot be used to advance the hole beyond the depth or width of probing.

The area to be cleared for underground utilities or structures for augering shall exceed the diameter of the largest tool (hand auger, drill auger, sampling tube, etc.) to be advanced and sufficiently large to allow for visual inspection of any obstructions encountered. The first 1 - 2ft (0.3 - 0.6m) can be cleared by hand digging to remove the soil. Slowly and carefully probe (i.e. triangular pattern), vacuum, or hand auger throughout the area to be cleared to ensure that no obstructions exist anywhere near the potential path of the drill auger or push type sampler. The soil in the area to be cleared shall be fully removed during this step. If probing is utilized, then alternate probing with soil removal as necessary, until the first 5-ft (1.5m) has been delineated.

### 6.5.7 Refusal

Where natural subsurface conditions (e.g. cobbles/rocks, fill material, and/or bedrock) may prevent adequate probing and augering, a practical and sensible evaluation by the Parsons' Project Manager will be the basis for determining if continuation of probing and augering is feasible. In all cases Parsons must employ all means necessary to prevent damaging subsurface utilities, product lines, tanks, or other structures. **When conventional means of probing and augering cannot be utilized, the Parsons' field representative believes that additional probing/augering is not feasible, or if the probing/augering poses additional hazard to personnel because of the physical demands of performing the task, work in that specific area will cease.** The Parsons' Project Manager will contact the client's project manager or designee to discuss alternatives. If Parsons' staff suspects, based on past information or boring logs, that hand augering is infeasible, then alternatives such as vacuum clearing or non-invasive procedures should be evaluated in advance.

### 6.5.8 Event Notification

If any portion of a tank, pipe, utility or other subsurface structure is encountered, or if there is any doubt it has been encountered, the work is to cease in that area and the Parsons' Project Manager notified immediately. If there is reason to believe that the structure has been damaged, if applicable, the emergency shut-off switch should be activated (if applicable) and the appropriate municipality and client notified immediately. The Parsons' Project Manager and/or client will decide if additional uncovering by hand is required. If it is confirmed that a UST system has been encountered, a tightness test(s) should be considered. Under no circumstances is the area to be backfilled without notifying the Parsons' Project Manager, unless risk of personal injury or damage warrants a temporary backfilling.

In case of refusal or if an unknown subsurface object is encountered during intrusive subsurface activities, then the following specified resolution process must take place.

## **PE&I Subsurface Soil Disturbance Protocol**

- Additional and deliberately careful excavation by hand will be conducted in an attempt to define the cause of refusal or identify the subsurface object.
  - a. If the cause CAN be readily and correctly defined as not destructive or hazardous, the field task manager should call the PM to discuss the situation.
  - b. If the cause CAN be readily and correctly defined as potentially destructive or hazardous, the field task manager should call the PM to discuss the situation. The specific location must be re-evaluated.
  - c. If the cause CANNOT be readily and correctly defined, the field task manager should call the PM to discuss the situation. The specific location must be re-evaluated.
- In case “a,” drilling may proceed ONLY after consultation with the PM.
- In cases “b” and “c,” drilling MUST STOP so that location re-evaluation can take place. The client, the utility owner (if applicable) and if required, the appropriate regulatory agency, must be advised of the situation and consulted to determine if (1) the location is necessary, which may require additional effort to clear a new location, or (2) the location is not necessary, and can be deleted from the program.

### **6.5.9 Scheduling**

Since clearing locations for augering, drilling, excavation and similar intrusive field work can be time consuming, it may be appropriate to perform the surface removal subsurface delineation prior to the arrival of subcontractors and their equipment on site. If these activities are conducted prior to the actual day of intrusive field work, then the cleared locations must be adequately covered with plates and/or backfilled, or barricaded to protect pedestrians and other surface traffic. Care must be taken to prevent settlement of the material used to cover the holes.

**ATTACHMENT A**

**PRE-DRILLING/SUBSURFACE CHECKLIST  
FOR INTRUSIVE FIELD WORK**

# PREDRILLING/SUBSURFACE CHECKLIST FOR INTRUSIVE FIELDWORK

Site Name: \_\_\_\_\_ Job Number: \_\_\_\_\_  
 Site Phone Number: \_\_\_\_\_  
 Site Address: \_\_\_\_\_ County: \_\_\_\_\_  
 Client Proj. Mgr.: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Site Manager Contacted Date: \_\_\_\_\_ By: \_\_\_\_\_  
 Site Drawings (yes / no / NA) \_\_\_\_\_ (please attach) Historical Drawings (yes / no / NA) \_\_\_\_\_  
 Third Party Construction/Redevelopment Plans ( Yes/No/NA) \_\_\_\_\_

\*\*\*ATTACH SITE FIGURE WITH PROPOSED BORING LOCATIONS

Subcontractor's (drillers, concrete, etc...) Company \_\_\_\_\_  
 Subcontractor's Contact Person \_\_\_\_\_ Phone \_\_\_\_\_  
 Meeting / Start Date \_\_\_\_\_ Time \_\_\_\_\_

1) Health and Safety Signoff Form Completed? (Yes/No) Date \_\_\_\_\_

2) Utility Protection Services (Minimum 48 Hrs. Advance Notice, State Specific Notification Period Supercedes)

Called: Date \_\_\_\_\_ Time \_\_\_\_\_ Initials \_\_\_\_\_

Reference # \_\_\_\_\_

Proposed Drilling Locations Premarked for Locating Service. Y / N

3) Private or In-House Utility Locating Service Performed? Y / N \_\_\_\_\_

Called: Date \_\_\_\_\_ Time \_\_\_\_\_ Initials \_\_\_\_\_

Name of Locating Service: \_\_\_\_\_

Telephone #/ contact: \_\_\_\_\_

Name of Supplier Locating Technician: \_\_\_\_\_

Type of sensing equipment used: \_\_\_\_\_

Proposed Drilling Locations Premarked Y / N

4) Other Potential Underground Structures

Name of City Engineer/Utility Representative: \_\_\_\_\_

Telephone #: \_\_\_\_\_

Date Notified \_\_\_\_\_ Maps: Y / N

Cleared: Y / N

5) COMPLETED SITE WALKOVER W/ SITE MANAGER/DESIGNEE OR OWNER/TENANT REP. Y / N

Name of Site Manager: \_\_\_\_\_

Name of Property Owner/Tenant Representative: \_\_\_\_\_

Cleared: Yes / No

Building Utility Service Line Connections Identified: Y / N

(Hand sketch on site map w/proposed boring locations and most likely utility trench locations)

6) Utility Inventory: Y / N

Utility	Name	Depth (ft) (If Available)	Phone	Notified - Date	Marked
<u>Above Ground Services</u>					
Electric	_____	NA	_____	Y / N _____	Y / N
Telephone	_____	NA	_____	Y / N _____	Y / N
Cable	_____	NA	_____	Y / N _____	Y / N
Overhead Supports	_____	NA	_____	Y / N _____	Y / N
Traffic light cables	_____	NA	_____	Y / N _____	Y / N

## PREDRILLING/SUBSURFACE CHECKLIST FOR INTRUSIVE FIELDWORK

**6) Utility Inventory Continued:**

**Below Ground Services:**

<b>Electric</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Telephone</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Cable</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Gas</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Water</b>				<b>Y / N</b>		<b>Y / N</b>
<b>UST System</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Storm</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Sanitary</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Steam</b>				<b>Y / N</b>		<b>Y / N</b>
<b>Pipeline Companies</b>				<b>Y / N</b>		<b>Y / N</b>

Other:

_____	_____	_____	_____	Y / N _____	Y / N _____
_____	_____	_____	_____	Y / N _____	Y / N _____
				Y / N _____	Y / N _____

- |    |   |       |
|----|---|-------|
| 7) | Site-Specific Emergency Contingency Plan Incorporated in Health & Safety Plan | Y / N |
| 8) | Drilling Locations Approved by Client Project Manager Named Above?            | Y / N |
| 9) | Signature of Parsons' Project Mgr. (required to begin fieldwork):             |       |

Name of Project Manager

**Signature of Project Manager**

Name of Parsons Field Personnel

**Signature of Field Personnel**

(This document to be included with the site H&S Plan and should be available upon request.)

**ADDITIONAL COMMENTS / NOTES:**



**ATTACHMENT B**  
**UTILITY CLEARANCE VARIANCE REQUEST FORM**



## UTILITY CLEARANCE VARIANCE REQUEST

To: Enter Parsons Manager (Program, Sector or Operations)

From:

Client Company Name:

Site/Project Name:

Date of Request:

Work Start Date:

---

The purpose of this document is to request a variance from one or more of the PE&I Mandatory Subsurface Soil Disturbance Protocol requirements. The purpose of the mandatory protocol is to prevent potential injury and/or loss of life; and damage to subsurface utilities and structures during any soil disturbance. Any waiver of these requirements should be carefully evaluated.

**Variance from the Subsurface Soil Disturbance Protocol is allowed only with the written approval of the appropriate Parsons' Program/Sector/Operations Manager. GBU/Divisional/Program safety resources should be consulted as needed. Failure to obtain a variance in writing is grounds for disciplinary action.**

### **Brief Project Description**

*Insert a brief background and description of the intrusive activities, which are the reason(s) for requesting a variance.*

### **Utility Clearance Requirements**

Step No.	Requirement	Step Completed <sup>1</sup>
Prep-1	Obtain as-built drawings and/or existing site plans if available and review for on-site utilities.	<input type="checkbox"/> Yes <input type="checkbox"/> No

---

<sup>1</sup>Any "No" response must include the rationale for not completing the step at the end of the Variance Request form.

Step No.	Requirement	Step Completed <sup>1</sup>
Prep-2	Utility mark-out requested through the nationwide utility locating one-call system ( <a href="http://www.call811.com">www.call811.com</a> ) for the work site.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Prep-3	Review the Subsurface Soil Disturbance protocol with all PE&I technical staff that will potentially be involved in projects that include subsurface investigation.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pre Mob-1	Notify affected parties at least 48-hours (longer if possible) in advance of planned intrusive fieldwork.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pre Mob-2	Prepare a Project Safety, Health and Environmental Plan (PSHEP) that includes a copy of the Subsurface Soil Disturbance protocol.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pre Mob-3	Select a competent Parsons' on-site representative to oversee all surface removal, hand augering/digging, drilling, and test pitting.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Site <sup>2</sup> Visit-1	Perform a site visit and identify indications of underground utilities. Indications could include <sup>3</sup> : <ul style="list-style-type: none"><li>➤ Area lights</li><li>➤ Phones</li><li>➤ Drain lines</li><li>➤ Overhead lines</li><li>➤ Fire hydrants</li><li>➤ Fiber optic cable signage</li><li>➤ Catch basins</li><li>➤ Manholes</li><li>➤ Junction boxes</li><li>➤ Natural gas</li></ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No

<sup>1</sup> Any "No" response must include the rationale for not completing the step at the end of the Variance Request form.

<sup>2</sup> Site visit activities must be included with mobilization activities if a Site visit is not performed prior to mobilization for the field work.

<sup>3</sup> Note that list is not all inclusive.

Step No.	Requirement	Step Completed <sup>1</sup>
	➤ Observe paving scars such as areas of new pavement or saw cuts	
Site Visit-2	Prepare a vicinity map of the proposed work area to include significant features and utilities. The site visit should be scheduled concurrent with, or soon after the utility mark-out.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Site Visit-3	Interview someone having historical site knowledge to gain information about the site (locations of former tanks, lines, etc.).	<input type="checkbox"/> Yes <input type="checkbox"/> No
Site Visit-4	Establish pre-drilling critical zones appropriate to the project site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Site Visit-4	Review Selected Locations with the Client	<input type="checkbox"/> Yes <input type="checkbox"/> No
Field Work-1	Review site utility maps against each proposed work activity. Check for legibility, accuracy, and scale while walking areas of concern. Evaluate the work area for any items in Site Visit-1 that may have been missed.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Field Work-2	Obtain all necessary permits and utility from the facility.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Field Work-3	Remove any surface paving or surface cover allow clear visibility of the subsurface conditions during hand augering/digging, and allow excavation with hand tools.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Field Work-4	Non-Invasive Clearing: Clear a minimum of a five foot radius for each proposed intrusive activity. Locations will be cleared using results of historical data research <u>and</u> with geophysical methods. Multiple appropriate instruments (ground penetrating radar, electromagnetic detector, magnetometer, metal detector) can be used for this work.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Field Work-5	Invasive Clearing: Delineate the subsurface at the borehole location by probing or digging. Dimensions of the intrusive method must exceed the diameter of the largest tool (hand auger, drill auger, sampling tube, etc.) to be advanced and	<input type="checkbox"/> Yes <input type="checkbox"/> No

# PARSONS

## Utility Variance Request

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Step No.	Requirement	Step Completed <sup>1</sup>
	sufficiently large to allow for visual inspection of any obstructions encountered. Approved methods could include the following: <ul style="list-style-type: none"><li>➤ Vacuum Extraction (Air Knifing, SoftDig®)</li><li>➤ Probing</li><li>➤ Hand Digging</li><li>➤ Hand Augering</li><li>➤ Post Hole Digging</li></ul>	

### Rationale

Below, identify the step or steps the variance is being requested for and an explanation of why the waiver is necessary and/or justified.

Step No.	Rationale for Variance Request

### Approvals

	Name	Date
Parsons Manager (Program, Sector, or Operations)		



## ATTACHMENT 3

# NYSDEC CORNING AREA GLASS SAMPLING STANDARD OPERATING PROCEDURE

# NYSDEC CORNING AREA GLASS SAMPLING STANDARD OPERATING PROCEDURE

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  - b. Appendix B sample Chain of Custody Form ..... 4

## 1. Objective

The purpose of this task is to collect and identify specific waste items associated with historic manufacturing waste (largely associated with glass manufacturing) disposal throughout the area. Performing this work involves the need to preserve unique shapes, markings, etc. of archive samples. Archived samples may be analyzed at NYSDEC's discretion to define their physical and chemical characteristics.

## 2. Procedure

### a. Equipment and Supplies

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The following equipment will be used:

- Clear Zip-Loc bags
- Digital camera
- PPE in accordance with the HASP
- Sample logs
- Ruler
- Tape measure
- Ultraviolet flashlight
- Fibrous brush
- Basic glass cutting equipment - different equipment may be utilized based on site- and sample-specific circumstances, including:
  - Triangular file
  - Hammer & chisel
  - Other hand tools (as applicable)

### b. Notification

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Prior to any archive sample being collected, to the extent practical, Corning Incorporated will be alerted of field archive sample collection if required by an order on consent or at the discretion of NYSDEC if not. Split samples may be provided to Corning Incorporated upon request. If splitting of a sample would otherwise impact the ability to get test results for the sampled material or would otherwise alter the nature of the material to damage it beyond its intended use as an archive sample, then Parsons and/or NYSDEC shall take the sample without splitting with Corning Incorporated and properly maintain the sample. NYSDEC solely reserves the right to refuse to split a sample.

### c. Sampling Method

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The following observations will be noted in the glass archiving sampling record log (Appendix A):

- Site name;
- Project number;



- Sampling date;
- Samplers;
- Sample ID;
- Parcel ID;
- Sampling Method;
- Location;
- Surrounding soil (or subject material) type & appearance;
- Optionally, if the following physical properties are applicable to a specific archive sample, record dimensions, shape, and color of the archive sample. Record opacity, fracture, and UV/fluorescence as applicable after sample collection; and
- Other notable observations.

To the extent possible, archive samples will be logged prior to being disturbed (e.g., moved by an excavator). A digital camera will be used to take photos of the archive sample and location; a ruler will be staged in the photo frame as a dimensional reference. An ultraviolet flashlight will be used to determine fluorescence of the archive sample after sample collection. A sketch of the sample location relative to property landmarks (e.g., fenceline, vegetation, shed, etc.) must be drawn and recorded in a field book, or supplemented with a written location description or photograph.

When handling the archive sample, samplers will wear nitrile gloves. Prior to or after the archive sample being split or bagged, a fibrous brush will be used to remove debris attached to glass or brick material.

As provided in Section 2.b., NYSDEC and Corning Incorporated will be notified before collection of any archive sample. If requested by Corning Incorporated, and where reasonable, larger pieces of glass may be split sampled into two pieces. A glass cutting device will be used to split the sample into two halves (to the extent possible). Glass pieces may be cut by scoring the glass with a triangular file and then breaking along the score, by breaking with a hammer and chisel, or by another appropriate hand methods. If hand tools are inadequate to physically split the glass sample, additional methods may be considered (e.g., a wet saw). Alternative methods of splitting samples will need to consider health and safety risks and generation/disposal of wastes prior to implementing.

If splitting a glass piece may harm its integrity, damage a unique and distinguishable shape, isn't feasible due to its size or shape, or presents another issue, field personnel will collect two pieces of similar material found together. One piece of the sample will be offered to Corning Incorporated as a split sample. NYSDEC and Corning Incorporated can discuss these instances, if they arise, and may make a future arrangement to split the piece.

The cutting device and splitting method (e.g., cut, crushed, or alternative method) must be noted on the glass archiving sampling record log (Appendix A). Additionally, an estimate of the percentage of the glass that is salvageable for archiving must be noted on the log. Once the archive sample is split, a photo must be taken of the glass samples. If an archive sample is unevenly split, NYSDEC reserves the right to choose the piece(s) to collect.

Sample identification information must be affixed to the Zip-Loc bag containing the archive sample. The following information must be noted on the bag, chain of custody, and/or sampling record log:

- Sample ID
- Chain of Custody number
- Sampler(s)
- Date sample collected
- Collection location (Area, Parcel ID, etc.)
- Sampler company (i.e., Parsons)
- Client (i.e., NYSDEC)

In the event a Corning Incorporated representative is unable to be present during the archive sample collection, the sample will be collected and stored in a secure location (e.g., the Parsons trailer). Corning Incorporated will be notified of the completion of the sampling effort. At Corning Incorporated's request, the archive sampling information will be shared. The archive sample may be split when a Corning Incorporated representative is present.

#### d. Chain of Custody

Archive samples will be collected under a chain of custody (Appendix B).

- The total number of samples on a chain is limited to 20.
- If the chain has multiple pages, it must be noted (e.g., Page 1 of 2).
- At the end of the workday, a picture will be taken of the chain to capture an electronic copy of the signed chain. A .pdf copy of the signed chain will be saved to the project file.

The *Site ID* consists of the work location (e.g., Study Area, Van Etten Road, etc.) that the archive sample is collected from. Each location has its own *Site ID*. Site IDs for each work location will be as follows, and this SOP will be amended as needed to list additional Site IDs.

Work Location	Site ID
Study Area	SA
Stewart Park	Stewart
Van Etten	Van
Guthrie Medical Center	GMC
Guthrie Center North Parking Lot	GCNPL
City of Corning Fire Department	CCFD
Post Creek	Post
3510 West Road	WR
McKinney Park	MCP; McKinney
William Street Park	WSP
Vine Street Site	Vine; 6FLA

Chain Numbers are the *Site ID* + *Sampling Date* (e.g., SA-072420 are the archive samples collected in the Study Area on July 24, 2020).

Field Sample IDs must be unique. The *Field Sample ID* for locations within the Study Area consists of the *Site ID* + *Residence Number* + *Date* + *Sequential Number* + *Sample Type* (AG for archive glass, FB for furnace brick, CS for ceramic, and ASH for ash). For example, SA-Res012-072420-01-AG would be the first sample collected at Study Area Residence 12 on July 24, 2020 and would consist of archive glass. The *Field Sample ID* for locations outside of the study area will consist of *Site ID* + *Date* + *Sequential Number* + *Sample Type*. For example, Stewart-101220-04-FB would be the fourth sample collected at Stewart Park on October 12, 2020 and would consist of furnace brick.

### 3. Attachments

#### A. APPENDIX A GLASS ARCHIVING SAMPLING RECORD LOG

#### B. APPENDIX B SAMPLE CHAIN OF CUSTODY FORM

# PARSONS GLASS ARCHIVING SAMPLING RECORD

<b>SITE NAME:</b>	<hr/>		
<b>PROJECT NUMBER:</b>	<hr/>		
<b>SAMPLING DATE / TIME:</b>	<hr/>		
<b>WEATHER:</b>	<hr/>		
<b>SAMPLERS:</b>	<hr/>	of	<hr/>
	<hr/>	of	<hr/>
	<hr/>	of	<hr/>
<b>SAMPLE ID:</b>	<hr/>		
<b>PARCEL ID:</b>	<hr/>		
<b>SAMPLING METHOD:</b>	<hr/>		

### DESCRIPTION OF SAMPLING POINT

LOCATION:
SURROUNDING SOIL/SUBJECT MATERIAL TYPE & APPEARANCE:
ORIENTATION:
DEPTH TO TOP:
DEPTH TO BOTTOM:
ABG* PROPORTIONS:

## ARCHIVE SAMPLE DESCRIPTION

DIMENSIONS (Photograph with ruler): \_\_\_\_\_

SHAPE: \_\_\_\_\_

COLOR: \_\_\_\_\_

OPACITY: \_\_\_\_\_

FRACTURE: \_\_\_\_\_

UV/FLUORESCENCE TESTING: \_\_\_\_\_

OTHER: \_\_\_\_\_

## CHAIN OF CUSTODY

SAMPLE SPLIT?:	Y		N
SPLITTING DEVICE:	<hr/>		
SPLIT METHOD:	<hr/>		
SPLIT RECOVERY %:	<hr/>		
CHAIN OF CUSTODY NUMBER:	<hr/>		
SHIPPED VIA:	<u>Dropped off at</u>		

## COMMENTS / MISCELLANEOUS

\*ABG denotes ash, brick, and/or glass

Submitted to:						Chain Of Custody / Analysis Request																									
						Privileged & Confidential										Site Name:							AESI Ref:	COC # :							
						EDD To:										Location of Site:							Lab Use Only		Lab Proj #						
Client Contact: (name, co., address)						Sampler:										Preservative							Job No.								
						P O #										0    0    2															
						Analysis Turnaround Time: Standard -  2 weeks -  1 week -  Next Day -																									
Hardcopy Report To:																															
Invoice To:																															
Sample Identification																															
Location ID				Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Units																		
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
Special Instructions:																						Notes:									
Samples will be held at the Parsons field office following sample collection, and may be submitted under chain of custody for analytical testing at a later date.																															
Sample Collected/Held by				Company									Company				Condition				Custody Seals Intact										
				Date/Time									Date/Time				Cooler Temp.														
Transferred to Archived by				Company									Company				Condition				Custody Seals Intact										
				Date/Time									Date/Time				Cooler Temp.														
Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):																															