**Former Corning Hospital and Related Parcels**

**Steuben County**

**Corning, New York**

# SITE MANAGEMENT PLAN

**NYSDEC Site Number: C851049**

**Prepared for:**

Corning Properties, Inc.

One Guthrie Square

Sayre, PA 18840

**Prepared by:**

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300 State Street, Rochester New York \

585-454-6110

**Revisions to Final Approved Site Management Plan:**

| Revision No. | Date Submitted | Summary of Revision | NYSDEC Approval Date |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
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**DECEMBER 2018**

CERTIFICATION STATEMENT

I DANIEL NOLL certify that I am currently a NYS registered professional engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

D P. N P.E.

12/10/18 DATE

TABLE OF CONTENTS

**Former Corning Hospital and Related Parcels**

**Steuben County**

**Corning, New York**

## SITE MANAGEMENT PLAN

### Table of Contents

## List of Tables



## List of Figures



## List of Appendices

## List of Acronyms

| | |
|---|---|
| AS | Air Sparging |
| ASP | Analytical Services Protocol |
| BCA | Brownfield Cleanup Agreement |
| BCP | Brownfield Cleanup Program |
| BGS | Below Ground Surface |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CAMP | Community Air Monitoring Plan |
| C/D | Construction and Demolition |
| CFR | Code of Federal Regulation |
| CLP | Contract Laboratory Program |
| COC | Certificate of Completion |
| CO2 | Carbon Dioxide |
| CP | Commissioner Policy |
| DER | Division of Environmental Remediation |
| EC | Engineering Control |
| ECL | Environmental Conservation Law |
| ELAP | Environmental Laboratory Approval Program |
| ERP | Environmental Restoration Program |
| EWP | Excavation Work Plan |
| FER | Final Engineering Report |
| FT | Feet |
| GHG | Green House Gas |
| GWE&T | Groundwater Extraction and Treatment |
| HASP | Health and Safety Plan |
| IC | Institutional Control |
| ISMP | Interim Site Management Plan |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| NYCRR | New York Codes, Rules and Regulations |
| O&M | Operation and Maintenance |
| OM&M | Operation, Maintenance and Monitoring |
| OSHA | Occupational Safety and Health Administration |
| OU | Operable Unit |
| PID | Photoionization Detector |
| PPB | Parts Per Billion |
| PPM | Parts Per Million |
| PRP | Potentially Responsible Party |
| PRR | Periodic Review Report |
| QA/QC | Quality Assurance/Quality Control |
| QAPP | Quality Assurance Project Plan |
| RAO | Remedial Action Objective |
| RAWP | Remedial Action Work Plan |
| RCRA | Resource Conservation and Recovery Act |

| | |
|---|---|
| RI/FS | Remedial Investigation/Feasibility Study |
| ROD | Record of Decision |
| RP | Remedial Party |
| RSO | Remedial System Optimization |
| SAC | State Assistance Contract |
| SCG | Standards, Criteria and Guidelines |
| SCO | Soil Cleanup Objective |
| SMP | Site Management Plan |
| SOP | Standard Operating Procedures |
| SOW | Statement of Work |
| SPDES | State Pollutant Discharge Elimination System |
| SSD | Sub-slab Depressurization |
| SVE | Soil Vapor Extraction |
| SVI | Soil Vapor Intrusion |
| TAL | Target Analyte List |
| TCL | Target Compound List |
| TCLP | Toxicity Characteristic Leachate Procedure |
| USEPA | United States Environmental Protection Agency |
| UST | Underground Storage Tank |
| VCA | Voluntary Cleanup Agreement |
| VCP | Voluntary Cleanup Program |

## ES EXECUTIVE SUMMARY

The following provides a brief summary of the controls implemented for the site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

| Site Identification: | C851049 Former Corning Hospital and Related Parcels |
|---|---|
| Institutional Controls: | 1. The property may be used for Restricted Residential (per 6 NYCRR Part 375-1.8(g)(2)(ii)), Commercial (per 6 NYCRR Part 375-1.8(g)(2)(iii)) and Industrial (per 6 NYCRR Part 375-1.8(g)(2)(iv)).; |
| | 2. All ECs must be operated and maintained as specified in this SMP; |
| | 3. All ECs must be inspected at a frequency and in a manner defined in the SMP; |
| | 4. The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Steuben County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department; |
| | 5. Groundwater and other environmental or public health monitoring must be performed as defined in this SMP; |
| | 6. Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP; |
| | 7. All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP; |
| | 8. Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP; |
| | 9. Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP; |

| | |
|---|---|
| | 10. Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement. |
| | 11. The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 7, and any potential impacts that are identified must be monitored or mitigated. SSD systems may be installed and activated in lieu of a soil vapor intrusion evaluation; |
| | 12. Vegetable gardens and farming on the site are prohibited. |
| Engineering Controls: | 1. Cover system |

| Inspections: | Frequency |
|---|---|
| 1. Cover inspection | Annually |
| | |
| Maintenance: | |
| 1. Cover System | As needed |
| Reporting: | |
| 1. Periodic Review Report | Annually |

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

# 1.0 INTRODUCTION

## 1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for Former Corning Hospital and Related Parcels located at 176 Denison Parkway East, 171 East First Street (formerly a portion of 176 Denison Parkway East) and 201 East First Street in Corning, New York (hereinafter referred to as the "site"). See Figure 1. The site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP) Site No. C851049 which is administered by New York State Department of Environmental Conservation (NYSDEC). It should be noted that the eastern portion of 176 Denison Parkway and 171 East First Street is not part of the BCP, refer to Figure 2.

Corning Hospital and the Guthrie Clinic entered into a Brownfield Cleanup Agreement (BCA) as a participant in October 2015 with the NYSDEC to remediate the site. The Brownfield Cleanup Agreement was amended to also include Corning Properties, Inc, as a participant in November 2015. The BCA was further amended on September 24, 2018 to include the current site owner of 176 Denison Parkway East and 171 East First Street, Riedman Purcell CH II, LLC as a volunteer. On November 7 2018, Riedman Purcell CH I, LLC submitted an application for further amendment of the BCA to include current site owner of 201 East First Street as a volunteer and to update the site map to reflect new tax identification numbers associated with a subdivision of 176 Denison Parkway East (new tax parcel #318.09-01-018.001) to create the new 176 Denison Parkway and 171 East First Street (new tax parcel #318.09-01-018.002). A figure showing the site location and boundaries of this site with the changes described above is provided as Figure 2. As noted above, Figure 2 also illustrates the parcel boundaries in addition to the BCP boundary. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in Appendix D.

After completion of the remedial work, some contamination was left at this site, which is hereafter referred to as "remaining contamination". Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Steuben County Clerk, requires compliance with this SMP and all ECs and ICs placed on the site.

This SMP was prepared to manage remaining contamination at the site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA (Site #C851049 and Index #C851049-06-15) for the site, and thereby subject to applicable penalties.

All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the site is provided in Appendix A of this SMP.

This SMP was prepared by LaBella Associates, D.P.C., on behalf of Corning Properties, Inc., in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Easement for the site.

## 1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut-down of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. In accordance with the Environmental Easement for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

## 1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7

days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the BCA, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1 on the following page includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix A.

**Table 1: Notifications***

| Name | Contact Information |
|---|---|
| NYSDEC Project Manager; Timothy Schneider | 585-226-5480, timothy.schneider@dec.ny.gov |
| NYSDEC Regional HW Engineer; Bernette Schilling | 585-226-5315, bernette.schilling@dec.ny.gov |
| NYSDEC Site Control; Kelly A. Lewandowski, P.E. | 518-402-9547, kelly.lewandowski@dec.ny.gov |

* Note: Notifications are subject to change and will be updated as necessary.

## 2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

### 2.1 Site Location and Description

The site is located in Corning, Steuben County, New York and is identified as 176 Denison Parkway East (Tax Map No. 318.09-01-018.100), 171 East First Street (Tax Map No. 318.09-01-018.200) and 201 East First Street (Tax Map No. 318.09-01-013.000) (see Figure 2). During the BCP project, the 176 Denison Parkway East parcel was subdivided into the current 176 Denison Parkway East parcel and 171 East First Street parcel. The current 176 Denison Parkway East and 171 East First Street Parcels also now include the former Pearl Street; however, that is not part of the BCP. Figure 2 illustrates the BCP limits and current parcel boundaries. The site is an approximately 4.77-acre area and is bounded by Denison Parkway East to the north, East First Street to the south, commercial buildings to the east, and Chemung Street to the west (see Figure 2 – Site Layout Map). Former Pearl Street intersects the BCP Site and separates the two (2) parcels that comprise the Site. The boundaries of the site are more fully described in Appendix D –Environmental Easement. The owner(s) of the site parcel(s) at the time of issuance of this SMP is:

- Riedman Purcell CHII LLC for176 Denison Parkway East and 171 East First Street and
- Riedman Purcell CHI LLC for201 East First Street.

### 2.2 Physical Setting

#### 2.2.1 Land Use

The Site is zoned residential and is currently vacant. Former buildings have been demolished.

The properties adjoining the Site and in the neighborhood surrounding the Site include commercial and residential properties. The properties immediately south of the Site include residential properties; the properties immediately north of the Site include commercial properties; the properties immediately east of the Site include commercial properties; and the properties to the west of the Site include commercial and residential properties.

#### 2.2.2 Geology

*Pre-Remediation*

A total of sixty-two (62) soil borings and seventeen (17) test pits were completed during the Phase II ESA and RI to depths ranging from 4 to 70-ft. bgs. An additional forty-five (45) test pits were completed in March 2017 to locate former building slabs and footers up to 7-ft. bgs. A topsoil layer was generally encountered at the ground surface, or directly beneath asphalt or concrete floor slabs. This topsoil layer generally consisted of brown sand and silt, with organic matter including roots/vegetation. Soils encountered beneath the topsoil generally consisted of varying amounts of medium to course gravel and historical fill material. The historical fill material included ash, cinders, brick

concrete, metal, ceramic, glass and wood. The historic fill material was generally encountered between 3 to 5 feet in depth. A distinctly different type of fill material was encountered in the southwest portion of the 201 East First Street parcel. The distinctly different fill material consisted of white ash and glass mixed with sand and was encountered at depths ranging from approximately 3 to 9 ft below the ground surface. This material was later removed and disposed of. Prior to remediation the fill material encountered at the Site was estimated to be on average 3-ft. in thickness.

Beneath the fill layer, and within soil borings that did not contain fill material, soils generally consisted of brown sand and silt mixed with varying amounts of medium to coarse gravel extending to depths of 70-ft. bgs. The amount of gravel in native soils increased with depth. Geoprobe refusal was generally encountered at depths ranging from 12 to 20-ft. bgs; however, a rotary drill rig was utilized to install monitoring wells at greater depths (up to 70-ft. bgs). Bedrock was not encountered at the Site.

*Post-Remediation*

The remedial work at the Site consisted of significant excavation and regrading efforts. Due to geotechnical considerations, all historic fill material beneath area of future buildings was removed and gravel backfill was placed. Areas outside of future building areas had historic fill placed to the extent feasible. In addition, a cover material was placed over the entire site which consisted of a minimum of 2 feet of gravel and in some locations recycled masonry. The only exception to this was the area of a utility on 201 East 1st Street. The current geologic conditions are shown on Figures 3A and 3B and Figure 3 provides a cross section key. Site specific boring logs are provided in Appendix E; however, the uppermost portion of each log may vary based on the remedial work.

Geologic cross sections are shown in Figures 3A and 3B and Figure 3 provides a cross section key. Site specific boring logs are provided in Appendix E.

### 2.2.3 Hydrogeology

Eighteen (18) overburden groundwater monitoring wells were installed at the Site as part of the Phase II ESA and RI work. The wells were completed with 5 to 15-feet of PVC screen below PVC risers, to total depths ranging from 8 to 70-ft. bgs (note that five (5) of the wells were installed in the basement to depths ranging from 1.5 to 5-ft. below finished floor which is approximately 15 ft. bgs).

Groundwater was measured at depths ranging from approximately 15.22 to 21.45 ft. bgs in May 2016. Groundwater at the Site is relatively level with elevations varying only approximately 0.4-ft. across the Site in May 2016. Groundwater contour maps were generated from data collected in May 2015 (pre-BCP), May 2016, and August 2016 and are included as Figures 4A, 4B, and 4C, respectively. It should be noted that in August 2016, six (6) monitoring wells were dry.

The following summarizes the groundwater contours observed:

- May 2015 (Figure 4A): this contour is based on wells MW-01, MW-03, MW-04, MW-07, MW-09, MW-10, MW-11 and MW-13 which are all screened between 917.68 and 904.94 ft. msl. The contours indicated groundwater flow for a

majority of the Site radially towards the center of the former hospital building (possibly due to the Sump influence) and also to the south and southeast in the eastern portion of the Site. The Sump was operating during this sampling event.

- May 2016 (Figure 4B): this contour is based on wells MW-01, MW-03, MW-04, MW-07, MW-09, MW-10, MW-11, MW-13, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-23 and MW-24 which are all screened between 917.68 and 902.44 ft. msl. Monitoring wells MW-21 and MW-22 were not included due to monitoring a deeper interval. The contours indicated groundwater flow for a majority of the Site radially towards the center of Site. The Sump was operating during this sampling event.
- August 2016 (Figure 4C): this contour is based on wells MW-04, MW-07, MW-10, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-23 and MW-24 which are all screened between 917.68 and 902.44 ft. msl. Monitoring wells MW-21 and MW-22 were not included due to monitoring a deeper interval. The contours indicated groundwater flow for a majority of the Site radially towards the center of Site, and towards the southwest in the western portion of the Site. The Sump was not observed to be operating during the August 2016 monitoring event due to lack of precipitation.

Based on the contours generated, groundwater in the northwest and central portion of the Site flows generally towards the southeast and groundwater in the southeast portion of the Site (201 East First Street) flows generally towards the northwest. Groundwater in the basement of the former hospital was measured between approximately 3-ft. (May 2016) and 5-ft. (August 2016) below the basement floor slab. The Sump was not observed to be operating during the August 2016 monitoring event due to lack of precipitation. As such, the August 2016 contours (Figure 4C) represent conditions with no influence from the basement Sump. It should be noted the Sump is no longer present at the Site and groundwater contours were all developed prior to building demolition.

Groundwater contour maps are shown in Figures 4A, 4B and 4C. Groundwater elevation data is provided in Table 4. Groundwater monitoring well construction logs are provided in Appendix E.

### 2.2.4 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 - References.

***Past Uses:***

*176 Denison Parkway East (including 171 East First Street)*
Residential structures occupied portions of this parcel from at least 1888 to at least 1968. Since approximately 1905, portions of this parcel operated as Corning Hospital with additions constructed in the 1920s, 1950s, 1960s, and 1990s. The hospital was in operation until 2014 at which time the facility was moved to a

different location. Additional former uses include a railroad in the northeast portion of the parcel from approximately 1888 through the 1950s, Corning Machine Co. in at least 1908, a tin shop/plumber from at least the early 1920s through the late 1940s, and a gasoline filling station in the northeast corner of the parcel in at least 1930. In 1998, a 10,000 gallon fiberglass underground storage tank (UST) used to store fuel oil replaced a 15,000 gallon UST installed in the 1960s to the east of the Powerhouse Building. A 1,000 gallon above ground storage tank (AST) used to store fuel oil is located in the Powerhouse Building. A drawing from 1949 indicated an abandoned dry well was located directly east of the hospital building footprint at that time.

Former buildings were demolished in 2016-2017. The facility had a groundwater extraction well ("Supply Well") for non-contact cooling water and a foundation drain system dewaters groundwater around the building basement to a central Sump where it is pumped to the storm sewer. The Supply Well ceased operation in 2016 and was subsequently decommissioned November 28, 2016. The Sump ceased operation in 2016 and was subsequently decommissioned in December 2016.

*201 East First Street*
Residential structures occupied this parcel from at least 1888 until the 1960s. A railroad transected this parcel from at least 1888 through the 1950s. A gasoline filling station occupied the southwest portion of this parcel in at least 1948. Permit records indicate structures at this parcel were demolished in 1968, and 2007. This parcel is currently vacant.

***Previous Investigation Reports:***
The following relevant environmental reports were generated for the Site.

- *Soil Boring Report*, 1991 (Appendices only)
- *Phase I Environmental Hazard Audit* by The Sear-Brown Group dated September 17th, 1991
- *Soil Core Investigation* by The Sear-Brown Group dated September 24th, 1997 (appendices including laboratory data not available for review).
- *Underground Storage Tank Removal and Remediation* by the Sear-Brown Group dated October 30th, 1998 (appendices including laboratory data not available for review).
- *SPDES Permitting Review* by the Sear-Brown Group dated March 10th, 1998
- *Corning Hospital and Associated Parcels Phase I Environmental Site Assessment (ESA)* by Stantec Consulting Services Inc. dated March 27th, 2014
- *Corning Hospital and Associated Parcels Phase II ESA* by LaBella dated May 2015
- *Geotechnical Evaluation* by Foundation Design, P.C. dated November 2015
- *Interim Site Management Plan*, by LaBella dated June 2016
- *Remedial Investigation Report,* by LaBella dated February 2017

The above mentioned reports are summarized below:

*Soil Boring Report 1991*

An investigation was completed in 1991 prior to constructing the easternmost building addition of the former Corning Hospital. Eight soil borings were completed on the eastern portion of 176 Denison Parkway East and 171 East first Street parcels. Fill material was encountered in all eight borings at depths up to 9-ft. bgs.

*Phase I Environmental Hazard Audit 1991*

This environmental study included a Phase I Audit for 176 Denison Parkway East (including the current 171 East First Street parcel) and 201 East First Street. A summary of the findings is as follows:

- Asbestos containing material (ACM) was noted in buildings at both parcels. Radon gas was detected at levels slightly above USEPA action levels at one location in the central part of the former Corning Hospital.
- Tank testing was recommended to determine the volume of the fuel oil UST at 176 Denison Parkway East due to discrepancies in tank records and recorded volumes (this UST was replaced in 1998).
- Removal of light ballasts that contain possible PCBs was recommended.
- A report from 1984, *Preliminary Contamination Investigation,* investigated VOC contamination in Corning's drinking water supply. The report determined the contamination was present south of the Chemung River. The source of drinking water at the Site is north of the Chemung River and it was determined that the contaminated aquifer does not pose a health threat to the subject properties.

*Soil Core Investigation 1997*

A soil core investigation was conducted in proximity to the former UST to the east of the Powerhouse Building located at 176 Denison Parkway East. Soil borings were advanced to evaluate the presence of petroleum-impacted soils as a result of a release from the UST. The investigation determined that petroleum impacts were present at depths of 5.5-ft. to 12-ft. bgs and NYSDEC Spill #9705200 was opened on July 30th, 1997. The spill was closed in 1999 based upon the activities described in the 1998 report summarized below.

*Underground Storage Tank Removal and Remediation 1998*

Following the soil core investigation, the 15,000 gallon UST was removed and replaced with a 10,000 gallon fiberglass UST used to store fuel oil in 1998. Tank contents of the 15,000 gallon UST were removed using a vac-truck and disposed of at an approved facility. A total of 384 tons of soil from the excavation were removed and disposed of at an approved facility. Following tank removal, the Sear-Brown Group requested closure of NYSDEC spill #9705200 and the spill was closed on January 5th, 1999. The existing 10,000 gallon fiberglass UST was installed in the same location as the former 15,000 gallon UST.

*SPDES Permitting Review 1998*

In 1998, the Sear Brown Group completed a review of the State Pollutant Discharge Elimination System (SPDES) permit requirements for the former Corning Hospital at 176 Denison Parkway East. The report recommended Corning Hospital determine the flow rate of groundwater influent and effluent, sample the groundwater at the former groundwater Supply Well to determine if contaminants are present, and pursue obtaining a SPDES permit. Based on a copy of a SPDES Permit effective October 1st, 1999, it appears the Permit was issued and allowed for up to 270 ug/L of TCE be discharged to the storm water system which discharges to the Chemung River.

Based on a review of the SPDES permit, discussions with the Corning Hospital facilities personnel, and additional historic records, it appears one (1) injection well was installed in the parking lot in the central-north portion of 176 Denison Parkway East in 1962. The groundwater injection well extended to approximately 68.5-ft. bgs with a screened section from 57.0 to 68.5-ft. bgs. A Request for Modification by the Sear Brown Group dated August 28th, 2000 indicates the hospital requested to discharge non-contact heating and cooling water to Outfall 002. The Request for Modification indicates the requested discharge point is an existing on-Site Injection Well (i.e., the Injection Well installed in 1962). The location of the former Injection Well was located during the RI (refer to Figure 4A).

One (1) former Supply Well (also referred to as an extraction well in historic documentation) was present at 176 Denison Parkway East to supply the former Corning Hospital with non-contact heating and cooling water which is discharged to the storm sewer after use. The former Supply Well was located within the basement of the former hospital building (refer to Figure 4A). The former Supply Well was approximately 70-ft. deep and a well pump is used to pump water at approximately 520 gallons per minute (GPM). The Supply Well was decommissioned on November 28, 2016.

A Sump was also located in the basement of the former Corning Hospital. The Sump was connected to a foundation drain and floor drains in the mechanical room. The Sump was decommissioned in December 2016.

*Phase I ESA 2014*

In 2014, Stantec conducted a Phase I ESA for Corning Hospital and several related parcels which included the two BCP Parcels. Several Recognized Environmental Conditions (RECs) were identified for 176 Denison Parkway East including the former use as a railroad, former gasoline filling station, historic uses as a machine shop, tin shop, and plumber, a note from 1949 indicating the presence of a fuel oil UST, a dry well noted on 1949 and 1965 drawings, the use as a laundry facility, and detection of benzene during UST removal in 1998. Two RECs were identified for 201 East First Street, including the former use as a railroad and former gasoline filling station.

*Phase II ESA 2015*

LaBella completed a Phase II ESA for Corning Hospital and several related parcels which included the Site. The Phase II ESA was conducted to evaluate RECs identified during the Phase I ESA conducted in 2014. The investigation consisted of the following activities at the two (2) parcels that comprise the BCP Site:

- Advancement of twenty-two (22) overburden soil borings
- Installation of nine (9) overburden groundwater monitoring wells
- Advancement of seven (7) test pits

The following analysis was performed:

- Seven (7) soil samples for VOCs
- Eight (8) soil samples for semi-volatile organic compounds (SVOCs)
- Fourteen (14) soil samples for metals
- Five (5) soil samples for cyanide
- One (1) soil sample for pesticides
- One (1) soil sample for PCBs
- Seven (7) groundwater samples for VOCs
- One (1) Sump sample for VOCs
- One (1) groundwater sample for SVOCs
- One (1) groundwater sample for metals
- One (1) groundwater sample for cyanide
- One (1) groundwater sample for pesticides
- One (1) groundwater sample for PCBs

The investigation identified CVOCs present in groundwater at 176 Denison Parkway East and in the Sump located within the basement of the former hospital. Specifically, TCE was detected in the Sump, MW-07, and MW-13 and cis-1,2-dichloroethene was detected in MW-07 at concentrations above NYSDEC Part 703 Groundwater Quality Standards. Elevated PID readings of up to 138 ppm were identified in unsaturated soils at 201 East First Street in the location of the former gasoline filling station. Fill material consisting of ash, cinders, brick, concrete, metal, ceramic, glass and wood was identified across the Site and some samples containing fill material identified metals including mercury, lead, arsenic, and cadmium above the NYSDEC Restricted Residential Use SCOs.

*Geotechnical Evaluation 2015*

Foundation Design, P.C. conducted a geotechnical evaluation for Reidman Development Corporation to evaluate the subsurface for future construction. Eleven (11) soil borings were advanced at the Site to depths of up to 25-ft. bgs. Fill material similar to those identified during the Phase II ESA was identified in three (3) soil borings.

*Interim Site Management Plan 2016*

An Interim Site Management Plan (ISMP) was developed for use during demolition of the former hospital and associated Site work. Refer to Figure 9A and 9B for a representation of ISMP activities. During demolition, former areas of environmental-related features (i.e., Sump, floor drains, compressors, former dry well, former Supply Well, elevators, transformer, incinerator, stack, etc.) as shown on Figure 9A were monitored and screened in accordance with the ISMP. Concrete floor slabs and sub-slab material were screened with a PID and soil samples were collected from any locations where elevated PID readings above background were encountered. Soil in five (5) locations were sampled for VOCs based on the elevated PID readings during floor slab removal (refer to Figure 9A).

The following table represents soil samples during floor slab removal collected per the ISMP:

| **Sample ID** | **PID Reading (ppm)** | **Analysis** | **Compounds Above Unrestricted** | **Compounds Above Restricted Residential** |
|---|---|---|---|---|
| 11C | 11.1 | VOCs | None | None |
| 14A | 18.7 | VOCs | None | None |
| 15A | 20.5 | VOCs | None | None |
| 16A | 9.2 | VOCs | None | None |
| 17A | 13.1 | VOCs | **VOCs:** Acetone | None |

Compounds do not exceed Restricted Residential Use SCOs.

During demolition of the Powerhouse Building, petroleum impacted soil was encountered. The following confirmatory soil samples were collected (refer to Figure 9B).

| Sample ID | Type | Analysis | Compounds Above Unrestricted | Compounds Above Restricted Residential |
|---|---|---|---|---|
| CORN-HOSP-SUMP-CONF-1 | Confirmatory | VOCs, SVOCs, Metals, PCBs | None | None |
| CORN-HOSP-SUMP-CONF-2 | Confirmatory | VOCs, SVOCs, Metals, PCBs | None | None |
| CORN-HOSP-PH-CONF-1 | Confirmatory | VOCs, SVOCs | None | None |
| CORN-HOSP-PH-CONF-2 | Confirmatory | VOCs, SVOCs | None | None |
| CORN-HOSP-PH-CONF-3 | Confirmatory | VOCs, SVOCs | None | None |
| CORN-HOSP-PH-CONF-4 | Confirmatory | VOCs, SVOCs | None | None |

Compounds do not exceed Unrestricted Use SCOs.

Concrete from within areas of environmental-related features was segregated from other building materials, characterized for disposal, and disposed of off-Site at a NYS Part 360 Permitted Landfill. Floor drain piping, glass piping from the laboratory as well as their contents were also containerized for disposal at a permitted facility. Disposal documentation for these environmental-related features will be included in the FER. Concrete not within the environmental-related features shown on Figure 9A was crushed for reuse as backfill within the former building footprint. Approximately 12,500 cubic yards of crushed concrete was backfilled on-Site.

A test pit evaluation was conducted to identify the presence of former building foundations at the Site under the ISMP. Test pits were advanced perpendicular to former building foundations shown on Sanborn Maps. Test pit locations and locations where slabs and/or footers were identified are shown on Figure 10.

A natural gas line was relocated under the ISMP. Refer to Figure 9A for location of the gas line installed.

*Remedial Investigation Report 2017*

A Remedial Investigation Work Plan and three (3) subsequent addenda were submitted and approved by the NYSDEC. RI activities completed between May and August 2016 consisted of the following:

- Geophysical survey
- Collection of six (6) surface soil samples (defined as 0-2-inches bgs) from six (6) locations
- Collection of twelve (12) cover soil samples (defined as 2-24-inches bgs) from six (6) locations
- Sub-slab soil vapor screening in the basement of the former hospital
- Scoping of the Sump and associated piping
- Installation of four (4) shallow groundwater monitoring wells (20-25-ft.), two (2) deeper groundwater monitoring wells (40-ft. and 70-ft.), and five (5) basement wells to 5-ft. bgs.
- Advancement of twenty-one (21) soil borings
- Advancement of ten (10) test pits

The following analysis was performed during the Remedial Investigation:

- Six (6) surface soil samples (0-2-in. bgs) or full-suite parameters
- Twelve (12) cover soil samples (2-12-in. bgs and 12-24-in. bgs) for full-suite parameters
- Fifteen (15) subsurface soil samples for full-suite parameters
- Eleven (11) subsurface soil samples for metals only
- Three (3) subsurface soil samples for TCLP metals
- One (1) subsurface soil sample for VOCs only
- Nine (9) groundwater samples, two (2) Sump samples, and a sample of the former Supply Well water for full-suite parameters
- Two (2) Sump water samples for VOCs and SVOCs
- One (1) former Supply Well sample for VOCs only
- Five (5) groundwater samples for VOCs only

The RI identified similar concentrations of CVOCs in groundwater as the Phase II ESA. Specifically, TCE was detected above Groundwater Quality Standards in two (2) monitoring wells (MW-21 and MW-24) and the former Supply Well, with the greatest concentration detected in the former Supply Well at 29 ppb. It should be noted that although TCE was detected in MW-07 and MW-13 during the Phase II ESA at concentrations that exceed Groundwater Quality Standards, TCE was non-detected in these two (2) monitoring wells during the RI. In addition, concentrations of TCE in the Sump decreased to below Groundwater Quality Standards during the RI.

Fill material was encountered across the Site. The fill material encountered is generally classified into two (2) distinctly different types; 1) historic fill containing black ash and cinders, wood, ceramic, glass fragments, and brick; and

2) glass and white ash fill material. No TCE was detected above Unrestricted Use SCOs.

Glass and ash fill material was encountered at 201 East First Street and a sample of the fill material from RI TP-8 analyzed for TCLP metals exceeded the Maximum Concentration for Toxicity Characteristics for arsenic, cadmium, and lead. Subsequently, RI Work Plan Addendum #3 was developed to further delineate the horizontal and vertical extent of the fill material at 201 East First Street. Two (2) additional samples analyzed for TCLP metals did not exceeded the Maximum Concentration for Toxicity Characteristics. Based on the delineation, it is apparent that this type of fill material containing white ash and glass was limited to an approximate 1,200 square feet (sq. ft.) area at depths ranging from approximately 3-9-ft. bgs. An estimated 270 cubic yards of ash/ glass fill material was present at 201 East First Street.

A total of eighteen (18) surface/ cover samples from six (6) locations (3 depth intervals) were analyzed for full-suite parameters. Five (5) of the locations did not meet Restricted Residential Use SCOs for metals and/or SVOCs.

The following Remedial Areas of Concern (RAOCs) were identified following the RI.

1. TCE in Groundwater
2. Surface and Cover Soil Impacts
3. Subsurface Historic Fill Material
4. Subsurface Ash and Glass Fill Material

***Nature and Extent of Contamination***

Soil and groundwater at the Site have been analyzed for VOCs, SVOCs, metals, cyanide, pesticides and PCBs. Previous investigations have identified the following contamination:

**Surface Soil (0-2" bgs):**

Six (6) surface soil samples were analyzed to evaluate potential exposure to environmental contaminants. The primary contaminants of concern (COCs) identified include SVOCs. Contaminants benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene exceed protective SCOs for the intended end use of the Site (i.e., Restricted Residential).

Sources: The source of SVOCs in surface soils is attributed to run-off from adjacent roads and/or sidewalks or historic fill materials.

**Cover Soil (2-12", 12-24")**

Twelve (12) cover soil samples were analyzed to evaluate environmental quality of cover soils. The primary COCs identified include SVOCs and metals. Contaminants benzo(a)anthracene, chrysene, benzo(b)fluoranthene,

benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, cadmium, lead, and mercury exceed protective SCOs for the intended end use of the Site (i.e., Restricted Residential).

Sources: The source of SVOCs and metals in cover soils is attributed to run-off from adjacent roads and/or sidewalks or historic fill materials. The source of metals is attributed to historic fill material.

Fill Material: Fill material was encountered across the Site. The fill material encountered is generally classified into two (2) distinctly different types; 1) historic fill containing black ash and cinders, wood, ceramic, glass fragments, and brick which was encountered across the Site; and 2) glass and white ash fill material which has been identified only in a portion of the 201 East First Street parcel.

**Subsurface Soil (below 24")**
Forty-two (42) subsurface soil samples were analyzed to evaluate potential source areas of contamination. The primary COCs identified include metals. Contaminants arsenic, barium, cadmium, copper, lead, and mercury exceed protective SCOs for the intended end use of the Site (i.e., Restricted Residential). An area of glass and white ash fill at 201 East First Street also identified metals in one sample, analyzed after TCLP extraction, exceeded the maximum concentration for toxicity characteristics.

Sources: The source of metals in subsurface soils is attributed to historic fill material.

Fill Material: Fill material was encountered across the Site. The fill material encountered is generally classified into two (2) distinctly different types; 1) historic fill containing black ash and cinders, wood, ceramic, glass fragments, and brick which was encountered across the Site; and 2) glass and white ash fill material which has been identified only in a portion of the 201 East First Street parcel.

**Groundwater**
Thirty-seven (37) samples were collected over 3 rounds of sampling from 20 on-Site groundwater monitoring well locations. The primary COCs identified include TCE at concentrations of up to 29 ppb. Due to the concentrations of TCE in groundwater, soil vapor intrusion will be addressed in the site remedy. Soil vapor was not evaluated during this RI due to the Site building be demolished. Off-Site groundwater has been documented to contain TCE at similar levels to those detected on-Site. Off-Site groundwater was not assessed during the RI.

Sources: Based on the low-level detections of TCE in groundwater Site-wide and off-Site in previous investigations, relatively low variability in concentrations detected across the Site, and the lack of significant concentrations of TCE in on-

Site soils, this data indicates there is no on-Site source of TCE impacting groundwater.

The RI Report was approved by the NYSDEC in a letter dated March 17, 2017".

## 2.3 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated February 13, 2018 are as follows:

### Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

### Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

### Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

## 2.4 Remaining Contamination

2.4.1 Soil

*Surface/ Cover Soil:*

The entire site had a 2-ft. minimum gravel and/or crushed masonry cover material placed as part of the remedial work. The only exception to this was a small concrete pad (about 3 ft. by 4 ft.) and junction box on the southern portion of 201

East First Street which was associated with an active utility and was thus left in place. In addition, a small area in the southwestern portion of the 176 Denison Parkway parcel had the existing gravel re-worked in place and a sample from this area identified one VOC (acetone) above the NYSDEC Part 375-6 Unrestricted Use SCO. It should be noted that acetone is not a site related contaminant and also can be a lab artifact. However, due to this sample results, the area is retained and included herein. The concentration detected is below the NYSDEC Part 375-6 Restricted Residential Use SCO. The remaining contamination is documented in Table 2 and illustrated on Figure 5.

*Subsurface Soil and Historic Fill Materials:*

This section summarizes the remaining contamination at the Site beneath the cover system. The remaining contamination at the Site can be divided into three distinct types:

- Historic Fill Materials – These materials are generally located in areas between and around the future building areas on the 176 Denison Parkway Parcel and on the 171 East First Street Parcel and throughout the 201 East First Street Parcel. The historic fill extent is shown on Figure 5. All the historic fill is located beneath at least 2-ft. of cover. It should be noted that the following areas of the Site contain utilities that are within or in proximity to historic fill materials:
    - Sanitary sewer line – This active sewer line bisects the 176 Denison Parkway Parcel and is shown on Figure 5 and 3A (cross-section). The sewer enters the Site on the western side of the Site and extends east through the Site with a small section proceeding north prior to extending east again to the former Pearl Street. Historic fill is located in close proximity to this sewer.
    - Telephone, Fiber Optic and Natural Gas Lines – Numerous utilities are located on the southern portion of the 176 Denison Parkway and 171 East First Street parcels. These utilities are located within an easement and extend approximately 10 ft. onto the property. The utilities generally run parallel to the southern property line from Chemung Street on the west to the former Pearl Street on the east. The telephone and fiber optic lines also extend along the southern portion of the 201 East First Street Parcel. Historic fill is located in proximity to these utility lines throughout the location of these lines on the property. In addition, the fiber optic line also has white ash/glass material beneath the line in one localized area, see below for additional details. These utilities are shown on Figure 5 and 3A (cross-section).
- White Ash/Glass Material – White ash/glass fill material is limited in extent to a discrete area on the southern portion of the 201 East First Street Parcel. It should be noted that glass material was observed to be intermixed with some of the concrete in this area. The concrete encasement and the underlying white ash/glass material is located beneath the cover material (2-ft.). The material is approximately 17-ft. in length (east-west), extends approximately 2 ft. to 5 ft. onto the property (north from southern property line) and extends to a depth of

approximately 7 ft. bgs. This equates to an area of approximately 130 sq. ft. and a volume of approximately 20 CY. The lateral extent of ash/glass material is shown on Figure 5 and also indicated on Figure 3B.

A demarcation layer was placed throughout the Site except in areas that were not actively excavated (this only included a limited area in the western portion of the Site). The demarcation layer consisted of an orange filter fabric. The elevation of the demarcation layer is provided on Figure 6. In addition, a demarcation layer was also placed vertically along the area to delineate the white ash/glass material from the backfill placed in the white ash/glass material excavation.

Table 2 and Figure 5 summarize the results of all soil samples collected that exceed the Unrestricted Use SCOs and the Restricted Residential Use SCOs at the site after completion of remedial action. The remaining contamination is managed by ECs which are detailed in Section 3.3: Engineering Controls.

### 2.4.2 Groundwater

Thirty-seven (37) samples were collected over 3 rounds of sampling from 20 on-Site groundwater monitoring well locations. A total of twenty-one (21) of these samples detected compounds above NYSDEC Part 703 Groundwater Quality Standards. Compounds exceeding Groundwater Quality Standards include VOCs, SVOCs, and metals.

*VOCs:*
Seven (7) groundwater samples from six (6) unique locations exceeded Groundwater Quality Standards. VOCs detected above Groundwater Quality Standards include cis-1,2-dichloroethene and TCE. However, concentrations of TCE in a now demolished Sump decreased to below Groundwater Quality Standards and two monitoring wells with previous TCE detections dropped to non-detect during the RI.

*SVOCs:*
Three (3) groundwater samples from one (1) unique location (the now demolished Sump) exceeded Groundwater Quality Standards. SVOCs detected above Groundwater Quality Standards include pentachlorophenol, benzo(a) anthracene, chrysene, bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, and indeno(1,2,3-c,d)pyrene).

*Metals:*
Thirteen (13) groundwater samples from twelve (12) unique locations exceeded Groundwater Quality Standards. Metals detected above Groundwater Quality Standards include antimony, iron, magnesium, manganese, and sodium.

*PCBs:*
PCBs were not detected in groundwater.

*Pesticides:*
Pesticides were not detected in groundwater.

*Cyanide:*
Cyanide was not detected in groundwater above Groundwater Quality Standards.

Off-Site groundwater has been documented to contain TCE at similar levels to those detected on-Site. The source of SVOCs in the Sump is anticipated to be attributed to the Orangeburg pipe formerly connected to the Sump. Metals detected in groundwater are anticipated to be naturally occurring and not contaminants of concern for the Site. It should be noted the Sump is no longer present at the Site.

Table 3 and Figure 6 summarize the results of all samples of groundwater that exceed the SCGs after completion of the remedial action.

### 2.4.3 Soil Vapor

The potential for soil vapor contamination exists at the site based on the remaining groundwater contamination (refer to Section 2.5.3 above).

## 3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

### 3.1 General

Since remaining contamination exists at the site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix B) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC.

### 3.2 Institutional Controls

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to restricted residential uses only. Adherence to these ICs on the site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries are shown on Figure 7. These ICs are:

- The property may be used for Restricted Residential (per 6 NYCRR Part 375-1.8(g)(2)(ii)), Commercial (per 6 NYCRR Part 375-1.8(g)(2)(iii)) and Industrial (per 6 NYCRR Part 375-1.8(g)(2)(iv)).;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Steuben County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Environmental or public health monitoring must be performed as defined in this SMP;

- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 7, and any potential impacts that are identified must be monitored or mitigated. SSD systems may be installed and activated in lieu of a soil vapor intrusion evaluation;
- Vegetable gardens and farming on the site are prohibited;

## 3.3 Engineering Controls

### 3.3.1 Cover (or Cap)

Exposure to remaining contamination at the site is prevented by a cover system placed over the site. This cover system is comprised of a minimum of 24 inches of clean gravel or crushed concrete. One exception to these cover materials is an area where an active utility is present and that utility was not removed to place cover material. As such, the cover in this area includes a concrete pad (about 3 ft. by 4 ft.) and a junction box. Figure 3, 3A and 3B present the location of the cover system and applicable demarcation layers. The Excavation Work Plan (EWP) provided in Appendix B outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the site and provided in Appendix G.

### 3.3.2 Provisions for Evaluating and Assessing Potential Soil Vapor Intrusion

An evaluation of the potential for soil vapor intrusion will be conducted for future buildings developed on the Site, including provisions for implementing actions recommended to address exposures related to soil vapor prior to occupancy. If an evaluation is completed then concurrent sub-slab, indoor air and outdoor air samples should be collected during the heating season and once the buildings are operating under normal conditions to determine the potential for exposures associated with SVI. If SSD

systems are installed in lieu of an evaluation then pressure field extension testing should be performed once the systems are installed and operational to demonstrate that the system, as constructed, is effectively depressurizing beneath the entire building. Either option should be implemented prior to occupying the building and documentation provided to the Agencies. Figure 7 shows where the ICs are required (the ICs include assessing for soil vapor intrusion and/or installation of a SSDS). SSD systems will be installed in future Site buildings, or soil vapor intrusion (SVI) testing will be completed to determine the need for mitigation in each building. SSD system layouts and specifications will be submitted to the NYSDEC and NYSDOH for review and approval prior to construction and the SMP will be updated with as-built drawings and an Operation and Maintenance Plan. Alternatively, a SVI sampling plan will be submitted to NYSDEC and NYSDOH for review and approval.

#### 3.3.3 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10.

##### 3.3.3.1 Cover (or Cap)

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity. If changes are made to the cover system, this SMP will be updated to reflect the changes.

##### 3.3.3.2 Sub-Slab Depressurization System

Any active SSD system will not be discontinued unless prior written approval is granted by the NYSDEC and NYSDOH. In the event that monitoring data indicates that the SSD system may no longer be required, a proposal to discontinue the SSD system will be submitted by the remedial party to the NYSDEC and NYSDOH.

## 4.0 MONITORING AND SAMPLING PLAN

### 4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC.

This Monitoring and Sampling Plan describes the methods to be used for:

- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7.0 of this SMP.

### 4.2 Site – wide Inspection

Site-wide inspections will be performed annually. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix H – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that site records are up to date.

Inspections of all remedial components installed at the site will be conducted. A comprehensive site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and
- If site records are complete and up to date; and

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a qualified environmental professional, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

# 5.0 OPERATION AND MAINTENANCE PLAN

## 5.1 General

The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP. If an evaluation of soil vapor intrusion subsequent to building construction determines mitigation is warranted, or SSD systems are installed in Site buildings in lieu of a soil vapor intrusion evaluation, this SMP will be revised to include an operation and maintenance plan for the SSDS system(s).

# 6.0 PERIODIC ASSESSMENTS/EVALUATIONS

## 6.1 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments that will be conducted for the site during periodic assessments, and briefly summarizes the vulnerability of the site and/or engineering controls to severe storms/weather events and associated flooding.

## 6.2 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the site during site management, and as reported in the Periodic Review Report (PRR).

### 6.2.1 Timing of Green Remediation Evaluations

For major remedial system components, green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), or at any time that the Project Manager feels appropriate, e.g. during significant maintenance events or in conjunction with storm recovery activities.

Modifications resulting from green remediation evaluations will be routinely implemented and scheduled to occur during planned/routine operation and maintenance activities. Reporting of these modifications will be presented in the PRR.

### 6.2.2 Building Operations

Structures including buildings and sheds will be operated and maintained to provide for the most efficient operation of the remedy, while minimizing energy, waste generation and water consumption.

### 6.2.3 Frequency of System Checks, Sampling and Other Periodic Activities

Transportation to and from the Site and use of consumables in relation to visiting the Site in order to conduct system checks and or collect samples and shipping samples to

a laboratory for analyses have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

#### 6.2.4 Metrics and Reporting

As discussed in Section 7.0 and as shown in Appendix H – Site Management Forms, information on energy usage, solid waste generation, transportation and shipping, water usage and land use and ecosystems will be recorded to facilitate and document consistent implementation of green remediation during site management and to identify corresponding benefits; a set of metrics has been developed.

### 6.3 Remedial System Optimization

A Remedial Site Optimization (RSO) study will be conducted any time that the NYSDEC or the remedial party requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

- The remedial actions have not met or are not expected to meet RAOs in the time frame estimated in the Decision Document;
- The management and operation of the remedial system is exceeding the estimated costs;
- The remedial system is not performing as expected or as designed;
- Previously unidentified source material may be suspected;
- Plume shift has potentially occurred;
- Site conditions change due to development, change of use, change in groundwater use, etc.;
- There is an anticipated transfer of the site management to another remedial party or agency; and
- A new and applicable remedial technology becomes available.

An RSO will provide a critique of a site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the site's cleanup goals, gather additional performance or media specific data and information and provide recommendations for improvements to enhance the ability of the present system to reach RAOs or to provide a basis for changing the remedial strategy.

## 7.0. REPORTING REQUIREMENTS

### 7.1 Site Management Reports

All site management inspection events will be recorded on the appropriate site management forms provided in Appendix H. These forms are subject to NYSDEC revision.

All applicable inspection forms generated for the site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 5 and summarized in the Periodic Review Report.

**Table 5: Schedule of Periodic Review Reports**

| Task/Report | Reporting Frequency* |
|---|---|
| Periodic Review Report | Annually |

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link http://www.dec.ny.gov/ chemical/62440.html.

### 7.2 Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the Department beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted annually to the Department or at another frequency as may be required by the Department. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix D - Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media

sampling results will also be incorporated into the Periodic Review Report, if applicable. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required annual site inspections and severe condition inspections, if applicable.
- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables, if applicable, and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.
- Results of all analyses, if applicable, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: http://www.dec.ny.gov/chemical/62440.html.
- A site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the site-specific Decision Document;
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
  - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored;
  - Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan; and
  - Trends in contaminant levels, if sampling was conducted, in the affected media will be evaluated to determine if the remedy continues to be effective in achieving remedial goals as specified by the Decision Document.
  - The overall performance and effectiveness of the remedy.

### 7.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a qualified environmental professional will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

"*For each institutional or engineering control identified for the site, I certify that all of the following statements are true:*

- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;*
- *Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program; and*
- *No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and*
- *The information presented in this report is accurate and complete.*

*I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as [Owner/Remedial Party or Owner's/Remedial Party's Designated Site Representative for the site."*

For BCP projects, every five years the following certification will be added:

- *The assumptions made in the qualitative exposure assessment remain valid.*

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The Periodic Review Report may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

## 7.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

## 7.4 Remedial Site Optimization Report

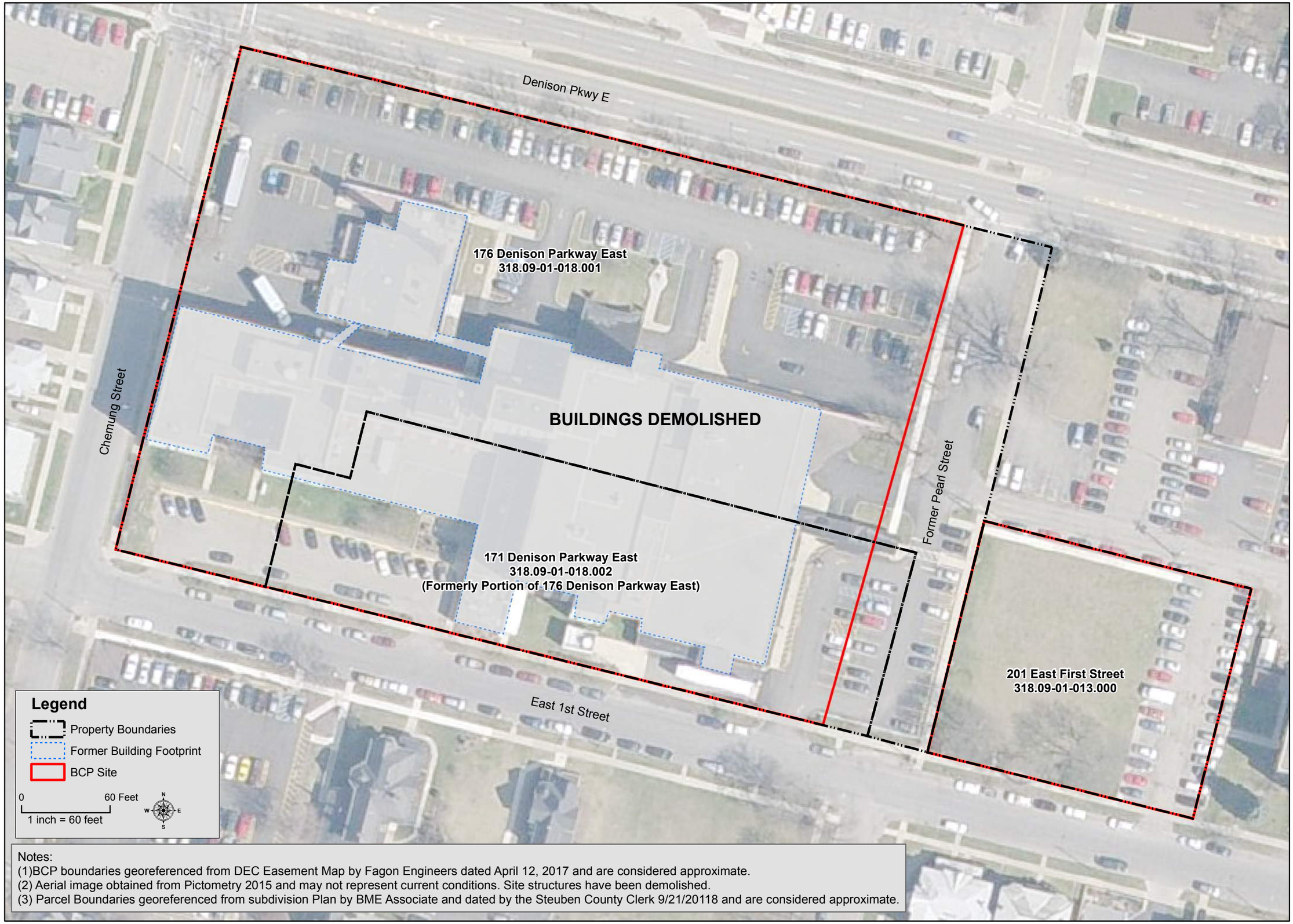
In the event that an RSO is to be performed (see Section 6.3), upon completion of an RSO, an RSO report must be submitted to the Department for approval. A general outline for the RSO report is provided in Appendix I. The RSO report will document the research/ investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual site model and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the site is located, Site Control and the NYSDOH Bureau of Environmental Exposure Investigation.

## 8.0 REFERENCES


- 6NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.
- NYSDEC DER-10 – "Technical Guidance for Site Investigation and Remediation".
- NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).
- Soil Boring Report, 1991 (Appendices only)
- Phase I Environmental Hazard Audit by The Sear-Brown Group dated September 17th, 1991
- Soil Core Investigation by The Sear-Brown Group dated September 24th, 1997 (appendices including laboratory data not available for review)
- Underground Storage Tank Removal and Remediation by the Sear-Brown Group dated October 30th, 1998 (appendices including laboratory data not available for review)
- SPDES Permitting Review by the Sear-Brown Group dated March 10th, 1998
- Corning Hospital and Associated Parcels Phase I Environmental Site Assessment (ESA) by Stantec Consulting Services Inc. dated March 27th, 2014
- Corning Hospital and Associated Parcels Phase II ESA by LaBella dated May 2015
- Geotechnical Evaluation by Foundation Design, P.C. dated November 2015
- Interim Site Management Plan by LaBella dated June 2016
- Remedial Investigation Report, by LaBella dated February 2017

# FIGURES




Notes:
(1)BCP boundaries georeferenced from DEC Easement Map by Fagon Engineers dated April 12, 2017 and are considered approximate.
(2) Aerial image obtained from Pictometry 2015 and may not represent current conditions. Site structures have been demolished.
(3) Parcel Boundaries georeferenced from subdivision Plan by BME Associate and dated by the Steuben County Clerk 9/21/20118 and are considered approximate.

LaBella
Powered by partnership.

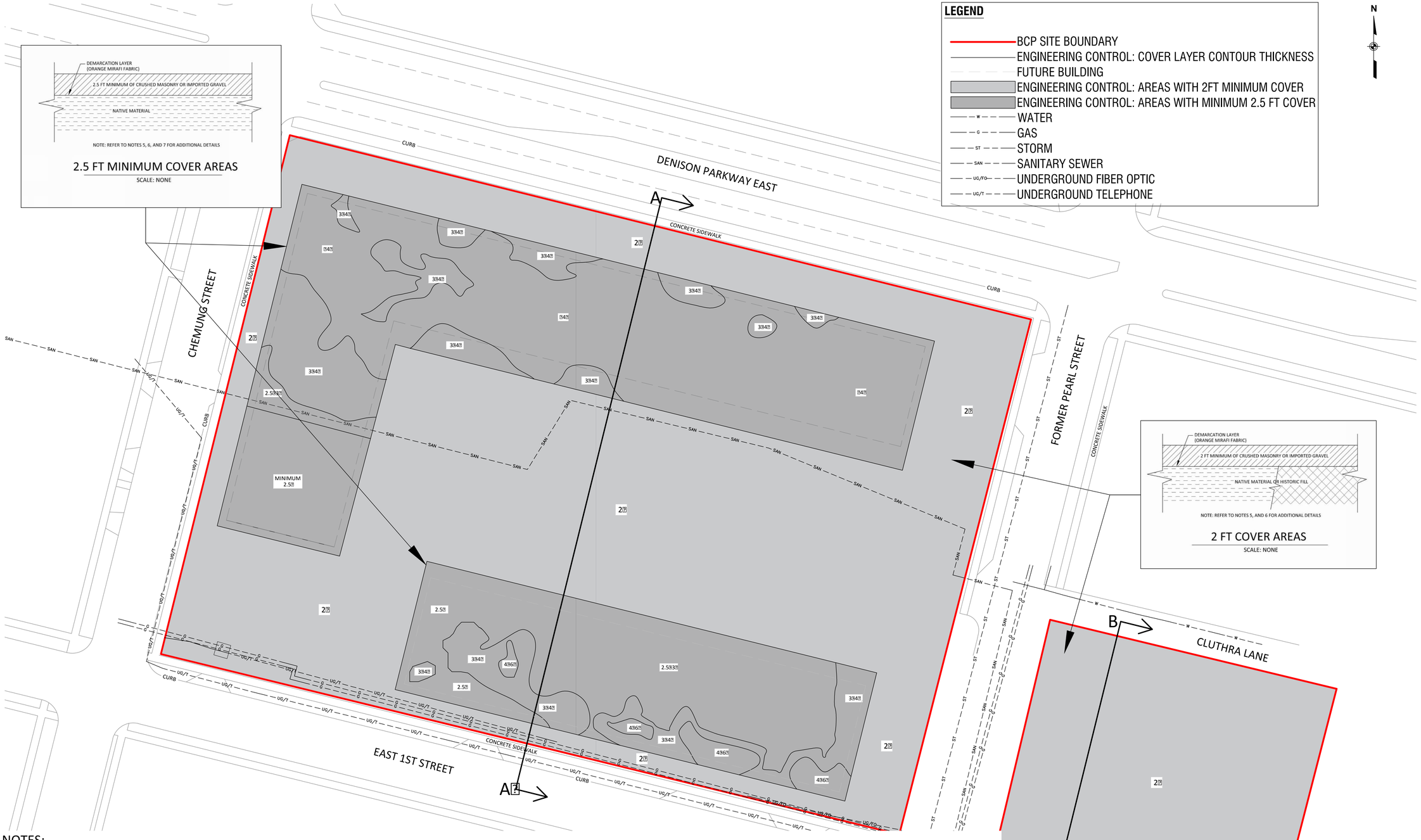
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
C851049

DRAWING TITLE
SITE LAYOUT MAP

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: AA
REVIEWED BY: DPN
DATE: October, 2018

PROJECT/DRAWING NUMBER
2150606
FIGURE 2

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 2- Site Layout.mxd




NOTES:

1. SITE BOUNDARIES WERE OBTAINED BY GEOREFRENCEING DRAWING DEC EASEMENT MAP BY FAGAN ENGINEERS DATES APRIL 12, 2017 AND ARE CONSIDERED APPROXIMATE.
2. SURVEY INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM.
3. COVER THICKNESS ARE BASED ON SURVEY AFTER COVER WAS PLACED □ COMPACTED. ANY CHANGES TO COVER DUE TO REDEVELOPMENT ARE REQUIRED TO BE REFLECTED IN AN UPDATED SITE MANAGEMENT PLAN.
4. REFER TO FIGURE 3A FOR CROSS-SECTIONS A-A□AND FIGURE 3B FOR CROSS-SECTION B-B□
5. CRUSHED MASONRY SOURCE IS FROM DEMOLISHED BUILDING.
6. IMPORTED MATERIALS SOURCE INCLUDED ITEM #4 AND BANK RUN GRAVEL BOTH FROM GRIDLEY EXCAVATING, LLC IN CORNING NEW YORK AND APPROVED BY NYSDEC VIA EMAILS ON APRIL 10, 2018 AND AUGUST 2, 2018, RESPECTIVELY.
7. COVER THICKNESS IN FUTURE BUILDING AREAS VARIES. MINIMUM THICKNESS IS 2.5 FT. AREAS GREATER THAN 2.5 FT ARE SHOWN WITH CONTOURS AND ASSOCIATED THICKNESS IN FEET.

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



STATE OF NEW YORK
DANIEL P. HOLZ
No. 081918
LICENSED PROFESSIONAL ENGINEER

LaBella
Powered by partnership.

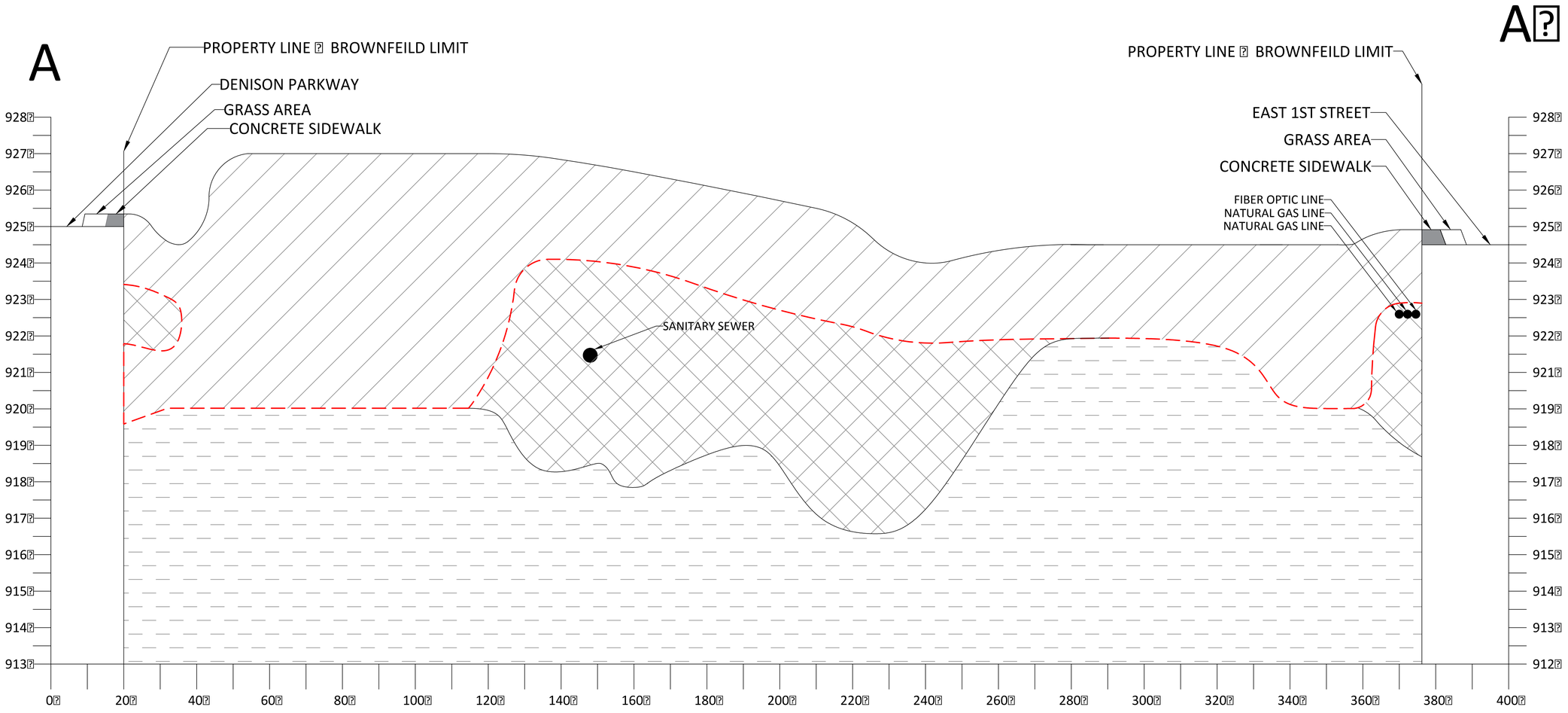
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE
ENGINEERING CONTROLS □ CROSS SECTION KEY AS-BUILT

ISSUED FOR: FINAL
DESIGNED BY: ---
DRAWN BY: DRP
REVIEWED BY: ---
DATE: NOVEMBER 2□ 2018
□:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 3 SQ1.dwg

PROJECT/DRAWING NUMBER
2150606

FIGURE - 3




NOTES:

1. ACTUAL BOTTOM DEPTHS OF HISTORIC FILL MAY VARY
2. SURVEY AND ELEVATION INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM.
3. UTILITY BEDDING, IF PRESENT, IS NOT SHOWN

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



STATE OF NEW YORK
DANIEL P. HOLT
No. 091618
LICENSED PROFESSIONAL ENGINEER

LaBella
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PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE
CROSS SECTION A-A'
176 DENISON PARKWAY /
171 EAST FIRST STREET
AS-BUILT

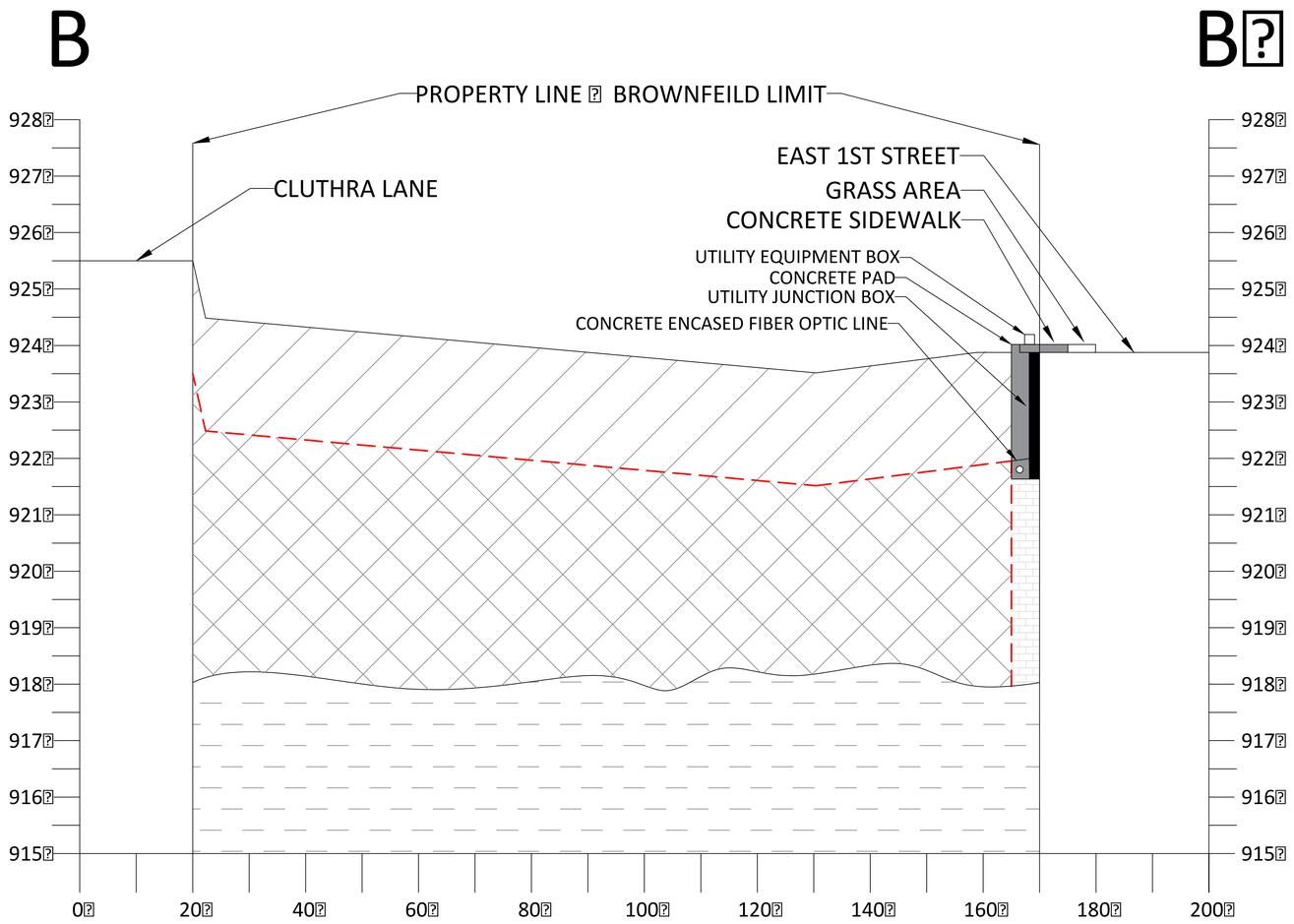
ISSUED FOR
FINAL

DESIGNED BY: ---
DRAWN BY: DRP
REVIEWED BY: ---

DATE: NOVEMBER 20, 2018
I:\Corning Hospital\2150606 - Phase I ESA\Drawing\GISP\Cross Sections\Figure 3A Axis 3B.dwg

PROJECT/DRAWING NUMBER
2150606

FIGURE - 3A




SITE COVER - GRIDLEY ITEM #4 OR BANK RUN GRAVEL

NATIVE MATERIAL - SILTY SAND OR SAND AND GRAVEL

HISTORIC FILL

DEMARCATION LAYER (ORANGE MIRAFI FABRIC)

WHITE ASH/GLASS MATERIAL LEFT IN PLACE

UNDOCUMENTED FILL

CONCRETE, UTILITY JUNCTION BOX

NOTES:
1. ACTUAL BOTTOM DEPTHS OF HISTORIC FILL MAY VARY
2. SURVEY AND ELEVATION INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM.
3. UTILITY BEDDING, IF PRESENT, IS NOT SHOWN

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



STATE OF NEW YORK
DANIEL P. HOLL
No. 091670
LICENSED PROFESSIONAL ENGINEER

LaBella
Powered by partnership.

PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE
CROSS SECTION B-B?
201 EAST 1ST STREET
AS-BUILT

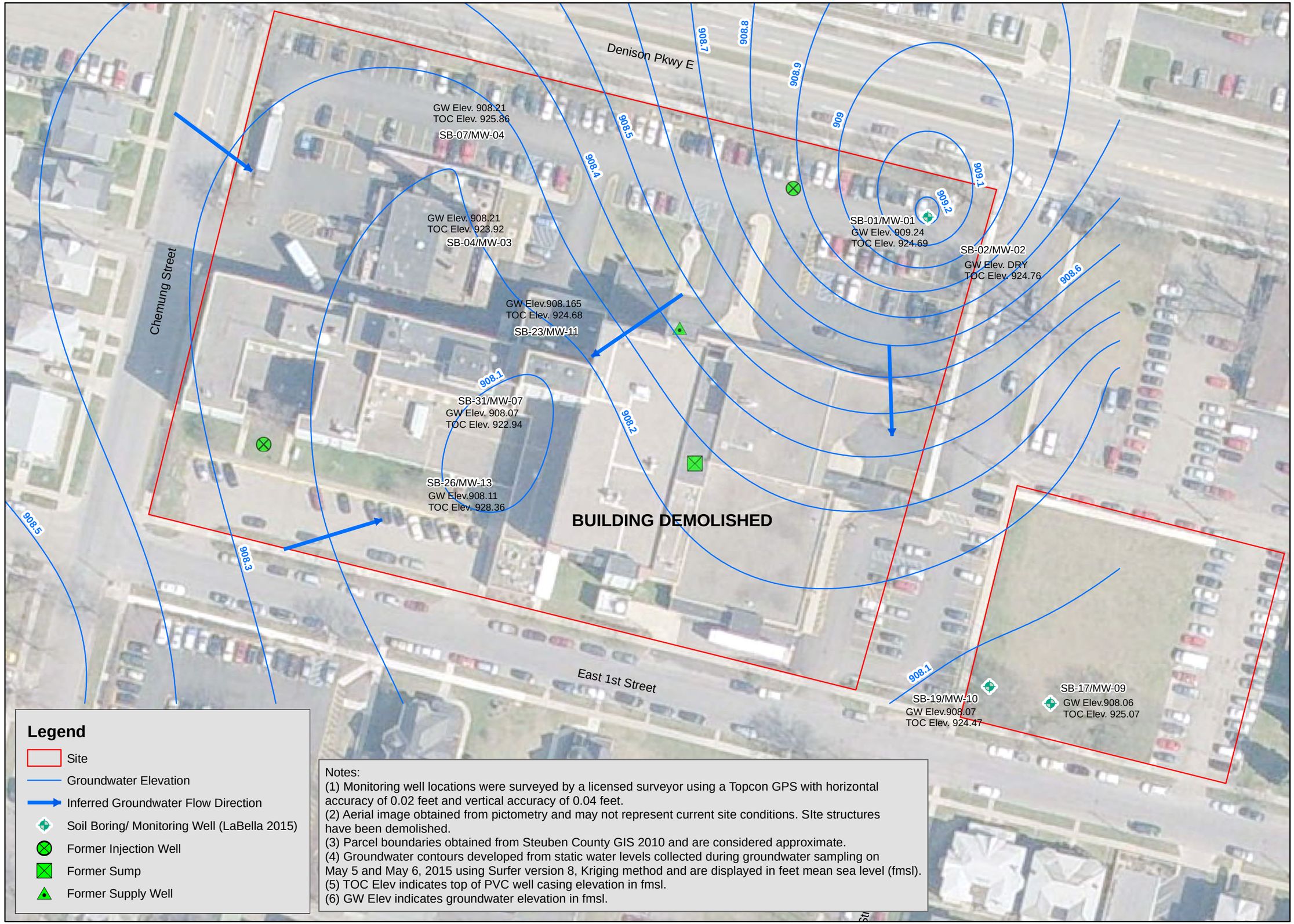
ISSUED FOR
FINAL

DESIGNED BY: ---
DRAWN BY: DRP
REVIEWED BY: ---
DATE: NOVEMBER 21, 2018

I:\Corning Hospital\2150606 - Phase 1 ESA\Drawings\GIS\MXD\Corning Fig#s Figure 3A And 3B.dwg

PROJECT/DRAWING NUMBER
2150606

FIGURE - 3B




## Legend

- Site
- Groundwater Elevation
- Inferred Groundwater Flow Direction
- Soil Boring/ Monitoring Well (LaBella 2015)
- Former Injection Well
- Former Sump
- Former Supply Well

Notes:
(1) Monitoring well locations were surveyed by a licensed surveyor using a Topcon GPS with horizontal accuracy of 0.02 feet and vertical accuracy of 0.04 feet.
(2) Aerial image obtained from pictometry and may not represent current site conditions. SIte structures have been demolished.
(3) Parcel boundaries obtained from Steuben County GIS 2010 and are considered approximate.
(4) Groundwater contours developed from static water levels collected during groundwater sampling on May 5 and May 6, 2015 using Surfer version 8, Kriging method and are displayed in feet mean sea level (fmsl).
(5) TOC Elev indicates top of PVC well casing elevation in fmsl.
(6) GW Elev indicates groundwater elevation in fmsl.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300 STATE STREET
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www.labellapc.com



PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK

DRAWING TITLE
GROUNDWATER CONTOUR MAP
MAY 2015

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: AA
REVIEWED BY: DPN
DATE: OCTOBER, 2018
Intended to print as 11x17

PROJECT/DRAWING NUMBER
2150606
FIGURE 4A

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 4A- GW Contours April 2015.mxd

Denison Pkwy E

Chemung Street

East 1st Street

GW Elev. 907.78
TOC Elev. 925.86
SB-07/MW-04

GW Elev. 907.68
TOC Elev. 923.92
SB-04/MW-03

GW Elev.907.72
TOC Elev. 924.68
SB-23/MW-11

GW Elev. DRY
TOC Elev. 910.76
SB-47/MW-16

SB-46/MW-15
GW Elev. 907.71
TOC Elev. 910.79

SB-31/MW-07
GW Elev. 907.72
TOC Elev. 922.94

SB-49/MW-18
GW Elev. 907.59
TOC Elev. 910.78

SB-45/MW-14
GW Elev. 907.75
TOC Elev. 910.76

SB-48/MW-17
GW Elev. 907.71
TOC Elev. 910.79

SB-55/ MW-24
GW Elev. 907.96
TOC Elev. 929.86

SB-26/MW-13
GW Elev.907.75
TOC Elev. 928.36

SB-53/ MW-22

SB-52/ MW-21

GW Elev. 907.57
TOC Elev. 924.73
SB-50/ MW-20

SB-01/MW-01
GW Elev. DRY
TOC Elev. 924.69

SB-02/MW-02
GW Elev. DRY
TOC Elev. 924.76

SB-51/ MW-19
GW Elev. 906.59
TOC Elev. 923.58

SB-54/ MW 23
GW Elev. 907.54
TOC Elev. 923.00

SB-19/MW-10
GW Elev.907.59
TOC Elev. 924.47

SB-17/MW-09
GW Elev.907.62
TOC Elev. 925.07

907.9
907.8
907.6
907.3
907.2
907.1
907
906.9
906.8
906.7
907.4
907.5
907.6
907.7

BUILDING DEMOLISHED

## Legend

- Site
- RI Interior Monitoring Wells
- RI Monitoring Well to 75-ft
- RI Monitoring Well to 40-ft.
- RI Monitoring Wells to 20-ft.
- Soil Boring/ Monitoring Well (LaBella 2015)
- Groundwater Elevation
- Inferred Groundwater Flow May 2016
- Former Injection Well
- Former Sump
- Former Supply Well

Notes:
(1) Monitoring well locations were surveyed by a licensed surveyor using a Topcon GPS with horizontal accuracy of 0.02 feet and vertical accuracy of 0.04 feet.
(2) Test pits were measured from existing site features and are considered approximate
(3) Aerial image obtained from pictometry and may not represent current site conditions. SIte structures have been demolished.
(4) Parcel boundaries obtained from Steuben County GIS 2010 and are considered approximate
(5) Groundwater contours developed from static water levels collected during groundwater sampling on May 31, 2016 using Surfer version 8, Kriging method and are displayed in feet mean sea level (fmsl)
(6) TOC indicates top of PVC well casing elevation in fmsl
(7) GW indicates groundwater elevation in fmsl
(8) MW-21 and MW-22 are excluded from the contours due to monitoring deeper intervals.

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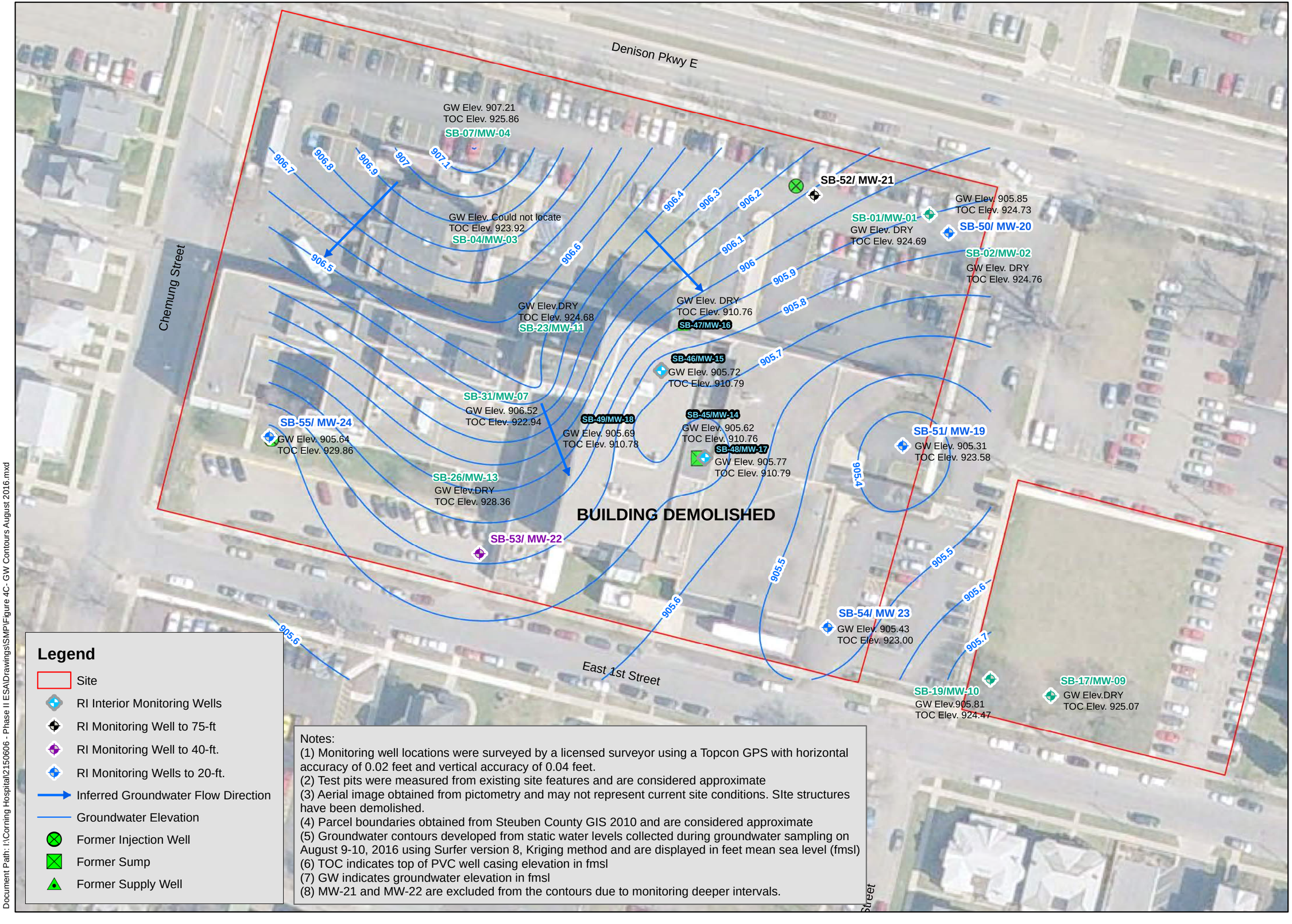
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK

DRAWING TITLE
GROUNDWATER CONTOUR MAP
MAY 2016

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: AA
REVIEWED BY: DPN
DATE: OCTOBER, 2018
Intended to print as 11x17

PROJECT/DRAWING NUMBER
2150606
FIGURE 4B

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 4B- GW Contours May 2016.mxd




## Legend

- Site
- RI Interior Monitoring Wells
- RI Monitoring Well to 75-ft
- RI Monitoring Well to 40-ft.
- RI Monitoring Wells to 20-ft.
- Inferred Groundwater Flow Direction
- Groundwater Elevation
- Former Injection Well
- Former Sump
- Former Supply Well

Notes:
(1) Monitoring well locations were surveyed by a licensed surveyor using a Topcon GPS with horizontal accuracy of 0.02 feet and vertical accuracy of 0.04 feet.
(2) Test pits were measured from existing site features and are considered approximate
(3) Aerial image obtained from pictometry and may not represent current site conditions. SIte structures have been demolished.
(4) Parcel boundaries obtained from Steuben County GIS 2010 and are considered approximate
(5) Groundwater contours developed from static water levels collected during groundwater sampling on August 9-10, 2016 using Surfer version 8, Kriging method and are displayed in feet mean sea level (fmsl)
(6) TOC indicates top of PVC well casing elevation in fmsl
(7) GW indicates groundwater elevation in fmsl
(8) MW-21 and MW-22 are excluded from the contours due to monitoring deeper intervals.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www.labellapc.com



PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK

DRAWING TITLE
GROUNDWATER CONTOUR MAP
AUGUST 2016

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: AA
REVIEWED BY: DPN
DATE: OCTOBER, 2018
Intended to print as 11x17

PROJECT/DRAWING NUMBER
2150606
FIGURE 4C

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 4C - GW Contours August 2016.mxd

**LEGEND**

- BCP SITE BOUNDARY
- PROPERTY LINES
- RELOCATED HISTORIC FILL
- REMAINING ASH/GLASS MATERIAL
- HISTORIC FILL
- REWORKED GRAVEL (COVER MATERIAL)
- HISTORIC FILL REUSE REQUEST #4
- HISTORIC FILL REUSE REQUEST #1 & #2
- HISTORIC FILL REUSE REQUEST #2
- HISTORIC FILL REUSE REQUEST #3
- TEST PITS
- SOIL BORINGS
- RAWP DOCUMENTATION SAMPLES
- ISMP SAMPLE
- MINNING TEST PIT LOCATIONS
- WATER
- GAS
- STORM
- SANITARY SEWER
- UNDERGROUND FIBER OPTIC
- UNDERGROUND TELEPHONE

DENISON PARKWAY EAST

176 DENISON PARKWAY EAST

171 DENISON PARKWAY EAST

201 EAST PEARL STREET

CHEMUNG STREET

EAST 1ST STREET

FORMER PEARL STREET

CLUTHRA LANE

CURB

CONCRETE SIDEWALK

CONCRETE SIDEWALK

**REMEDIAL ACTION REUSE REQUEST #3**
**2-6'**
METALS
*LEAD - 74.6 - 93.3*
*MERCURY - 0.236 - 0.274*

PESTICIDES
*4,4'-DDT - 0.00789 - 0.00805*

**REMEDIAL ACTION REUSE REQUEST #4**
DEPTH RANGE - 2-2.5-FT BGS.

**Metals**
*LEAD - 78.9 - 282*
*MERCURY - 0.26 - 0.64*
*COPPER - 54.7*
*ZINC - 157 - 301*

**SVOCs**
*BENZO(B)FLUORANTHENE - 1.1 - 1.2*
*INDENO(1,2,3-CD)PYRENE - 0.68*

**PCBS**
*TOTAL PCBS - 0.3072*

**PESTICIDES**
*4,4-DDT - 0.00371 - 0.0109*

**CORN-HOSP-PH-SUMP-CONF-1**
**20'**
METALS
*COPPER - 60.3*

**CORN-HOSP-PH-SUMP-CONF-2**
**19'**
METALS
*COPPER - 82.3*

**SB-46 12-20'**
METALS
*CHROMIUM - 30.0*
*MERCURY - 1.3*
PESTICIDES
*4,4'-DDT - 0.017*
PCBS
*TOTAL PCBS - 0.330*

**REMEDIAL ACTION REUSE REQUEST #1**
DEPTH RANGE - 2.5-10.8-FT BGS.
METALS
*LEAD - 73.7 - 96.3*
*MERCURY - 0.19 - 0.22*

PCBS
*TOTAL PCBS - 0.109 - 0.231*

PESTICIDES
*4,4'-DDT - 0.00732*

**REMEDIAL ACTION REUSE REQUEST #2**
**2.5-10.8'**
METALS
*MERCURY - 0.193 - .0289*
*LEAD - 172*

PESTICIDES
*4,4'-DDT - 0.0102 - 0.0112*

PCBS
*TOTAL PCBS - 0.127*

**17A 5'**
VOCs
*ACETONE - 0.087*

**P11-02**
**DEPTH RANGE - 0-2'**
VOCs
*ACETONE - 0.16*

**SB-48 12-18'**
Metals
*MERCURY - 0.7*
PESTICIDES
*4,4'-DDT - 0.0061*

**FILL-COMP-01**
**2-6'**
Metals
*COPPER - 564*
*LEAD - 211-564*
*MERCURY - 0.239-0.927*
*ZINC - 224-280*

**TP-04 2.5'**
Metals
*Cadmium - 2.52*
*Lead - 273*
*Mercury - 0.547*

**TP-05 5'**
Metals
*Lead - 160*
*Mercury - 0.425*

**SB-01 3'-4'**
METALS
*ARSENIC - 13.5*
*LEAD - 246*
*MERCURY - 0.211*

**AG-SW-05 5.56'**
Metals
*LEAD - 145*
*MERCURY - 0.201*
*ZINC - 119*

**AG-SW-06 5.97'**
Metals
*LEAD - 160*
*MERCURY - 0.292*
*ZINC - 119*
*ARSENIC - 14.6*

**SB-61 8.5-10'**
Metals
*LEAD - 956*
*MERCURY - 0.78*
*ZINC - 469*
*ARSENIC - 17.7*
*COPPER - 577*

**SB-39 3-4'**
Metals
*LEAD - 225*
*MERCURY - 0.21*
*ZINC - 294*

**SB-58 8-10'**
Metals
*LEAD - 84.7*
*ARSENIC - 20.2*

**AG-SW-04 5.33'**
Metals
*LEAD - 229*
*MERCURY - 0.341*
*ZINC - 175*

**AG-SW-02 5.77'**
Metals
*LEAD - 1,870*
*MERCURY - 2.12*
*ZINC - 622*
*ARSENIC - 83.4*
*CADMIUM - 67.2*
*COPPER - 98*
*SELENIUM - 29.7*

WHITE ASH/GLASS MATERIAL LEFT IN PLACE

FIBER OPTIC AND TELEPHONE JUNCTION BOXES

N

0 20 40 60 80

SCALE: 1:30

NOTES:

1. SITE BOUNDARIES WERE OBTAINED BY GEOREFRENCEING DRAWING DEC EASEMENT MAP BY FAGAN ENGINEERS DATES APRIL 12, 2017 AND ARE CONSIDERED APPROXIMATE.
2. SAMPLE LOCATIONS OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. SURVEY INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM. HORIZONTAL ACCURACY OF 0.02 FEET AND VERTICAL ACCURACY OF 0.04 FEET. RI TESTING LOCATIONS ARE APPROXIMATE.
3. CONCENTRATIONS SHOWN EXCEED UNRESTRICTED USE SCOS. CONCENTRATIONS IN **RED** EXCEED RESTRICTED RESIDENTIAL USE SCOS. CONCENTRATIONS THAT DO NO EXCEED THESE STANDARDS ARE NOT SHOWN.
4. CONCENTRATIONS IN PARTS PER MILLION (PPM).
5. DEPTHS OF SAMPLES/MATERIALS ARE BASED ON THE SITE GRADE AT THE TIME OF COMPLETION OF REMEDIAL WORK IN AUGUST, 2018.
6. UTILITY INFORMATION OBTAINED FROM "APPROXIMATE EXISTING CONDITIONS SURVEY" BY FAGAN ENGINEERS DATED SEPTEMBER 12, 2016 AND ARE CONSIDERED APPROXIMATE. THE UTILITY COMPANIES SHALL BE CONTACTED FOR ACTUAL LOCATIONS AND DEPTHS.
7. REFER TO REMEDIAL REUSE REQUESTS FOR ADDITIONAL TESTING DATA ON RELOCATED HISTORIC FILL.
8. SAMPLING DATA AND HISTORIC FILL LIMITS SHOWN ARE LIMITED TO BROWNFIELD CLEAN UP PROGRAM SITE BOUNDARY. ANY HISTORIC FILL OR OTHER IMPACTS BEYOND BCP BOUNDARY MUST BE HANDLED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



STATE OF NEW YORK
DANIEL P. NOLL
No. 081698
LICENSED PROFESSIONAL ENGINEER

LaBella
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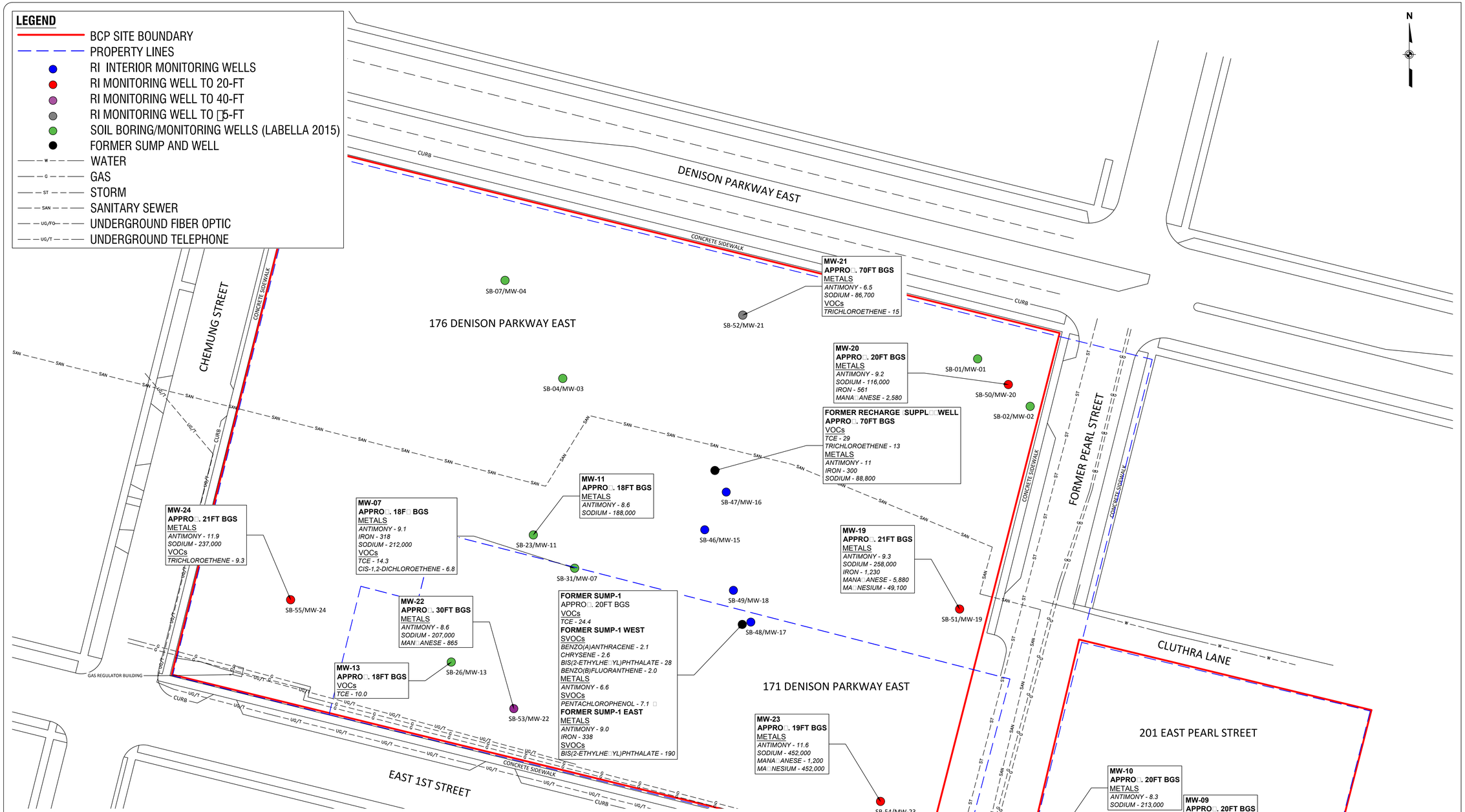
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE
REMAINING CONTAMINATION SOIL AS-BUILT

ISSUED FOR: FINAL
DESIGNED BY: ---
DRAWN BY: DRP
REVIEWED BY: ---
DATE: DECEMBER 10, 2018
(C:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP Figure 5 Remaining Contamination.DWG)

PROJECT/DRAWING NUMBER
2150606

FIGURE - 5




NOTES:

1. SITE BOUNDARIES WERE OBTAINED BY GEOREFRENCEING DRAWING "APPROXIMATE EXISTING CONDITIONS SURVEY BY FAGAN ENGINEERS DATES JANUARY 12, 2016 AND ARE CONSIDERED APPROXIMATE.
2. SAMPLE LOCATIONS OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK.
3. SURVEY INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM.
4. UTILITY INFORMATION OBTAINED FROM DEC EASEMENT MAP BY FAGAN ENGINEERS DATED APRIL 12, 2017 AND ARE CONSIDERED APPROXIMATE. THE UTILITY COMPANIES SHOULD BE CONTACTED FOR ACTUAL LOCATIONS AND DEPTHS.
5. LABELLA MONITORING WELL LOCATIONS WERE SURVEYED BY A LICENSED SURVEYOR USING A TOPCON GPS WITH HORIZONTAL ACCURACY OF 0.02 FEET AND VERTICAL ACCURACY OF 0.04 FEET.
6. CONCENTRATIONS SHOWN EXCEED NYSDEC PART 703 GROUNDWATER QUALITY STANDARDS. CONCENTRATIONS DETECTED BELOW THE GROUNDWATER STANDARD ARE NOT SHOWN.
7. CONCENTRATIONS IN PARTS PER BILLION (PPB).
8. IN 2015, THE CENTER CHAMBER OF THE SUMP WAS SAMPLED. IN 2016, THE EAST AND WEST CHAMBERS OF THE SUMP, WHICH FLOW INTO THE CENTER CHAMBER, WERE SAMPLED.
9. ALL WELLS HAVE BEEN REMOVED OR DECOMMISSIONED.

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



STATE OF NEW YORK
DANIEL P. NOLL
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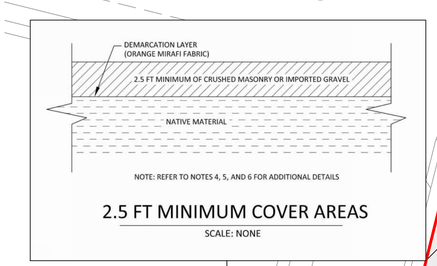
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL AND RELATED PARCELS CORNING, NEW YORK #C851049

DRAWING TITLE
REMAINING CONTAMINATION GROUNDWATER AS-BUILT

ISSUED FOR: FINAL
DESIGNED BY: ...
DRAWN BY: DRP
REVIEWED BY: ...
DATE: NOVEMBER 21, 2018
I:\Corning Hospital\2150606 - Phase II ESA\Drawings\GMP\Figure 6 Groundwater.dwg

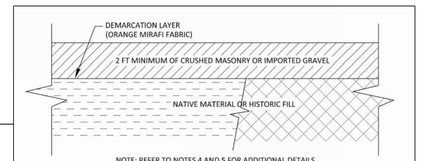
PROJECT/DRAWING NUMBER
2150606

FIGURE - 6




2.5 FT MINIMUM COVER AREAS

SCALE: NONE




2 FT COVER AREAS

SCALE: NONE

**LEGEND**

- BCP SITE BOUNDARY
- ENGINEERING CONTROL:COVER LAYER CONTOUR THICKNESS
- FUTURE BUILDING
- ENGINEERING CONTROL:AREAS WITH 2FT MINIMUM COVER
- ENGINEERING CONTROL: AREAS WITH MINIMUM 2.5 FT COVER
- INSTITUTIONAL CONTROL BOUNDARIES
- W — WATER
- G — GAS
- ST — STORM
- SAN — SANITARY SEWER
- UG/FO — UNDERGROUND FIBER OPTIC
- UG/T — UNDERGROUND TELEPHONE

N

DENISON PARKWAY EAST

CHEMUNG STREET

FORMER PEARL STREET

CLUTHRA LANE

EAST 1ST STREET

CONCRETE SIDEWALK

CURB

MINIMUM 2.5

NOTES:

1. SITE BOUNDARIES WERE OBTAINED BY GEOREFRENCEING DRAWING DEC EASEMENT MAP BY FAGAN ENGINEERS DATES APRIL 12, 2017 AND ARE CONSIDERED APPROXIMATE.
2. SURVEY INFORMATION OBTAINED BY USING A CARLSON GPS THAT HAS SUB CENTIMETER ACCURACY USING THE RTK NETWORK. THE GPS USED A NY CENTRAL DATUM.
3. COVER THICKNESS ARE BASED ON SURVEY AFTER COVER WAS PLACED  COMPACTED. ANY CHANGES TO COVER DUE TO REDEVELOPMENT ARE REQUIRED TO BE REFLECTED IN AN UPDATED SITE MANAGEMENT PLAN.
4. CRUSHED MASONRY SOURCE IS FROM DEMOLISHED BUILDING.
5. IMPORTED MATERIALS SOURCE INCLUDED ITEM #4 AND BANK RUN GRAVEL BOTH FROM GRIDLEY EXCAVATING, LLC IN CORNING NEW YORK AND APPROVED BY NYSDEC VIA EMAILS ON APRIL 10, 2018 AND AUGUST 2, 2018, RESPECTIVELY.
6. COVER THICKNESS IN FUTURE BUILDING AREAS VARIES. MINIMUM THICKNESS IS 2.5 FT. AREAS GREATER THAN 2.5 FT ARE SHOWN WITH CONTOURS AND ASSOCIATED THICKNESS IN FEET.

0 20 40 60 80

SCALE: 1:30

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |



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PROJECT/CLIENT

SITE MANAGEMENT PLAN

FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE

INSTITUTIONAL CONTROL BOUNDARIES

ISSUED FOR: FINAL

DESIGNED BY: ...
DRAWN BY: DRP
REVIEWED BY: ...

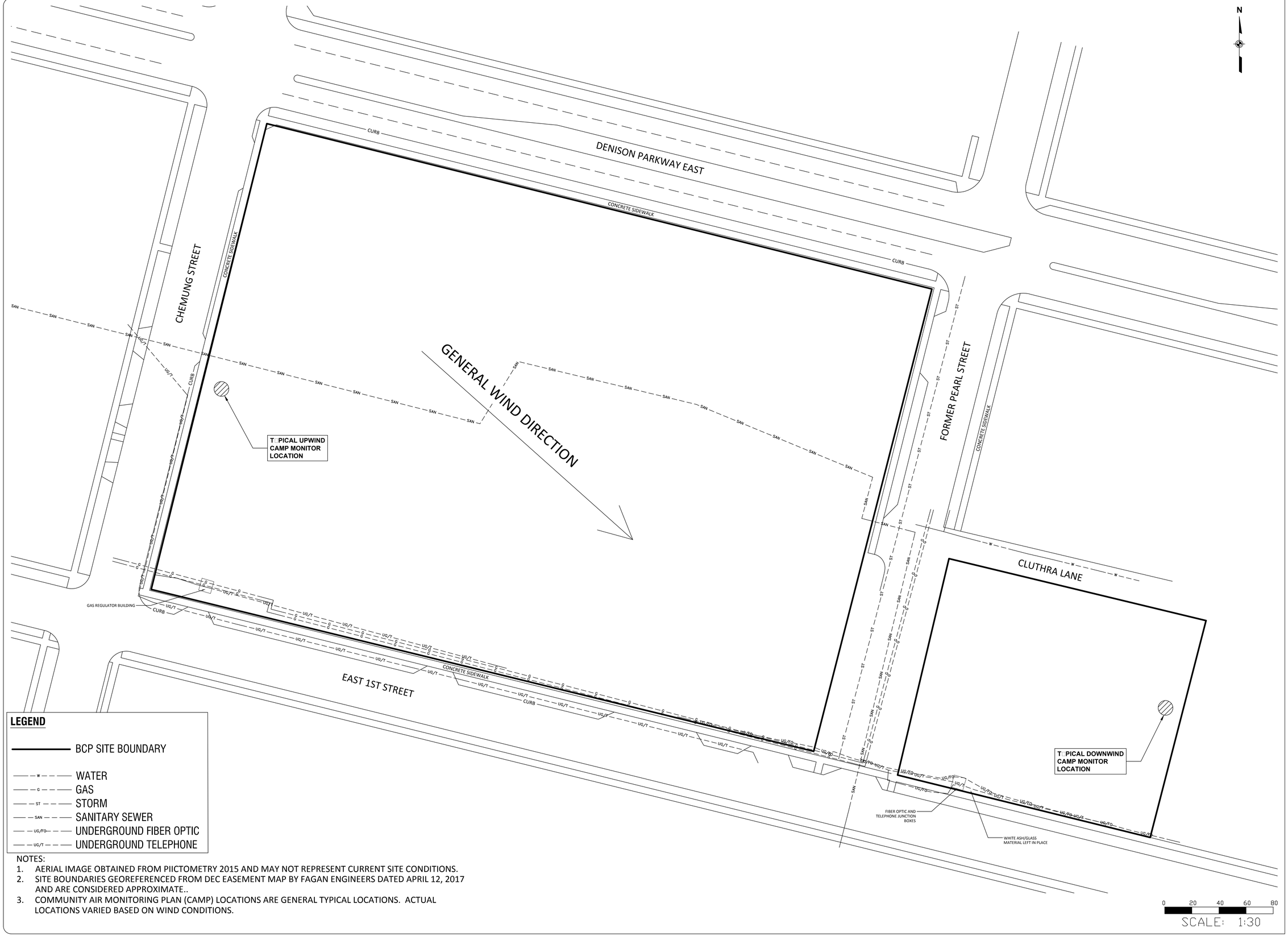
DATE: NOVEMBER 21, 2018

T:\Corning Hospital\2150606 - Phase II ESA\Drawings\GIS\MXD\Figure 03 - Cngfp.dwg

PROJECT/DRAWING NUMBER

2150606

FIGURE - 




**LEGEND**

- BCP SITE BOUNDARY
- WATER
- GAS
- STORM
- SANITARY SEWER
- UNDERGROUND FIBER OPTIC
- UNDERGROUND TELEPHONE

NOTES:

1. AERIAL IMAGE OBTAINED FROM PIICTOMETRY 2015 AND MAY NOT REPRESENT CURRENT SITE CONDITIONS.
2. SITE BOUNDARIES GEOREFERENCED FROM DEC EASEMENT MAP BY FAGAN ENGINEERS DATED APRIL 12, 2017 AND ARE CONSIDERED APPROXIMATE..
3. COMMUNITY AIR MONITORING PLAN (CAMP) LOCATIONS ARE GENERAL TYPICAL LOCATIONS. ACTUAL LOCATIONS VARIED BASED ON WIND CONDITIONS.

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |
| : | : | : | : |



STATE OF NEW YORK
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PROJECT/CLIENT

SITE MANAGEMENT PLAN

FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
#C851049

DRAWING TITLE

AIR MONITORING LOCATIONS
AS-BUILT

ISSUED FOR
FINAL

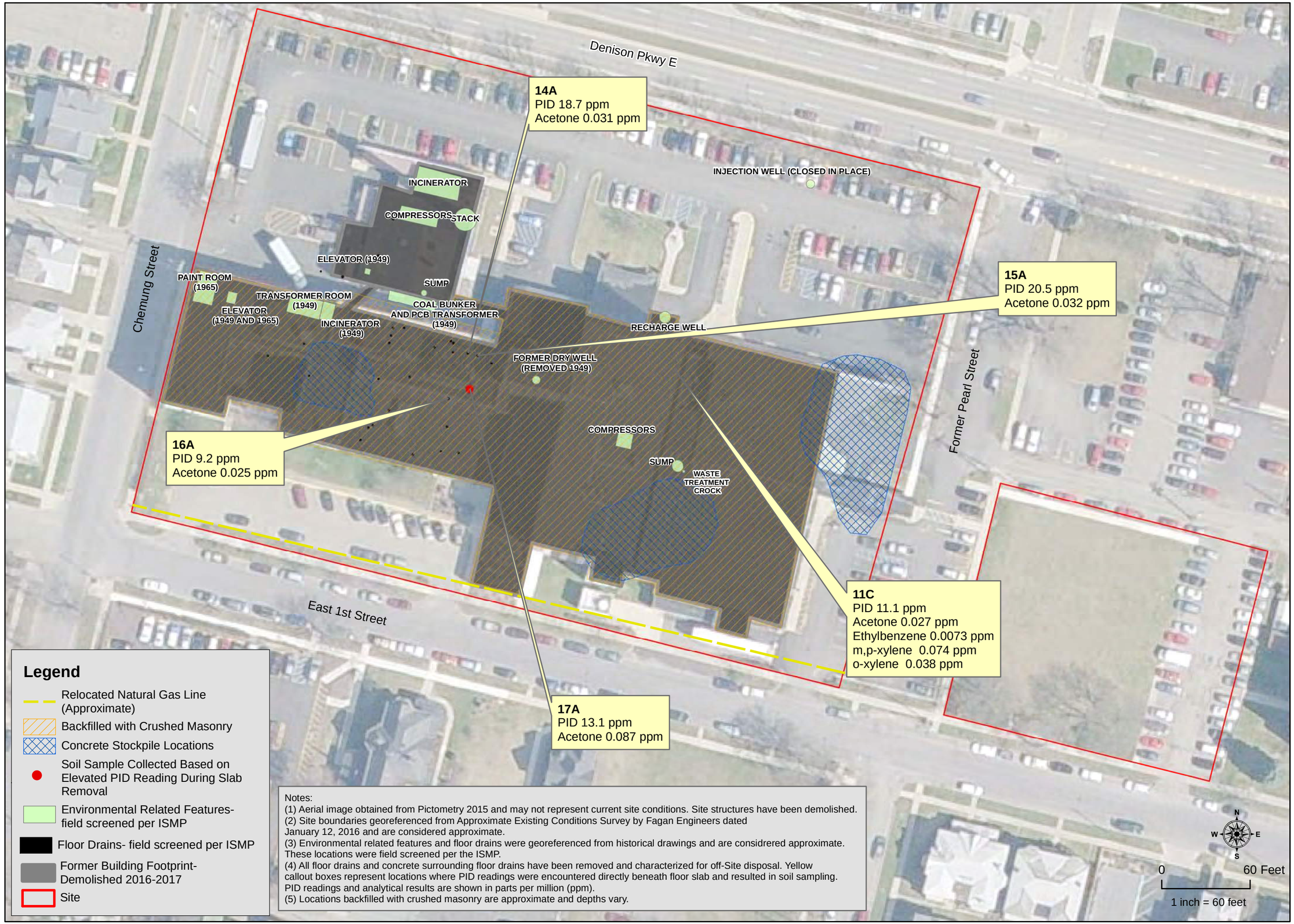
DESIGNED BY: ---
DRAWN BY: DRP
REVIEWED BY: ---

DATE: NOVEMBER 20, 2018
C:\Corning Hospital\2150606 - Phase II ESA\Drawing\GIS\MXD\Figure-8 Wind.dwg

PROJECT/DRAWING NUMBER

2150606

FIGURE - 8




## Legend

- Relocated Natural Gas Line (Approximate)
- Backfilled with Crushed Masonry
- Concrete Stockpile Locations
- Soil Sample Collected Based on Elevated PID Reading During Slab Removal
- Environmental Related Features- field screened per ISMP
- Floor Drains- field screened per ISMP
- Former Building Footprint- Demolished 2016-2017
- Site

Notes:
(1) Aerial image obtained from Pictometry 2015 and may not represent current site conditions. Site structures have been demolished.
(2) Site boundaries georeferenced from Approximate Existing Conditions Survey by Fagan Engineers dated January 12, 2016 and are considered approximate.
(3) Environmental related features and floor drains were georeferenced from historical drawings and are considrered approximate. These locations were field screened per the ISMP.
(4) All floor drains and concrete surrounding floor drains have been removed and characterized for off-Site disposal. Yellow callout boxes represent locations where PID readings were encountered directly beneath floor slab and resulted in soil sampling. PID readings and analytical results are shown in parts per million (ppm).
(5) Locations backfilled with crushed masonry are approximate and depths vary.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PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
C851049

DRAWING TITLE
INTERIM SITE MANAGEMENT PLAN ACTIVITIES

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: AA
REVIEWED BY: DPN
DATE: OCTOBER, 2018

PROJECT/DRAWING NUMBER
2150606
FIGURE 9A

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 9- ISMP Activities.mxd

C1A-C1D
CORN-HOSP-PH-CONF-1
(sidewall)

C3A-C3D
CORN-HOSP-PH-CONF-3
(sidewall)

C2A-C2D
CORN-HOSP-PH-CONF-2
(sidewall)

C4A-C4D
CORN-HOSP-PH-CONF-4
(bottom)

CORN-HOSP-PH-SUMP-CONF-1 (bottom)
CORN-HOSP-PH-SUMP-CONF-2 (sidewall)

CORN-HOSP-CB-1

C1A C1B C1C C1D
C2A C2B C2C C2D
C3A C3B C3C
C4A C4B C4C C4D

Former Powerhouse Building

Former Hospital Building

## Legend

- Confirmatory Sample Location
- Impacts Proximate Former Sump
- Approx. Area of Petroleum Impacts
- Former Building Footprint- Demolished 2016-2017

0 20 Feet
1 inch = 20 feet

N W E S

Notes:
(1) Aerial image obtained from Pictometry 2015 and may not represent current site conditions. Site structures have been demolished.
(2) Site boundaries georeferenced from Approximate Existing Conditions Survey by Fagan Engineers dated January 12, 2016 and are considered approximate.
(3) Confirmatory sample locations and areas of impacts located with a Carlson GPS with horizontal accuracy of 0.1 ft.

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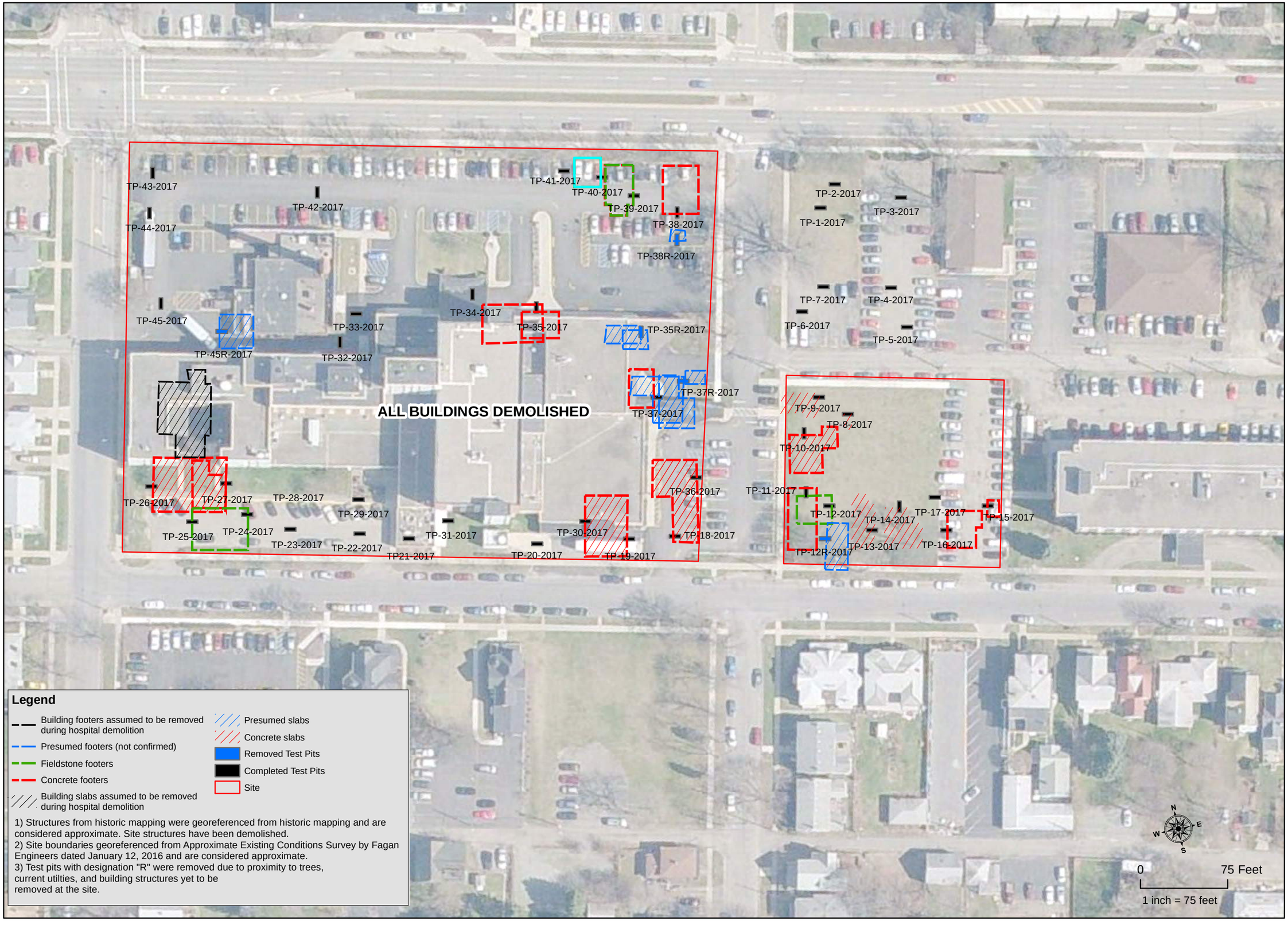
PROJECT/CLIENT
SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
C851049

DRAWING TITLE
INTERIM SITE MANAGEMENT PLAN ACTIVITIES
POWERHOUSE BUILDING

ISSUED FOR: FINAL
DESIGNED BY: DP
DRAWN BY: AA
REVIEWED BY: DP
DATE: OCTOBER, 2018
Intended to print as 11x17

PROJECT/DRAWING NUMBER
2150606
FIGURE 9B

Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 9A- ISMP activities Powerhouse.mxd




Document Path: I:\Corning Hospital\2150606 - Phase II ESA\Drawings\SMP\Figure 10- Foundation Test Pitting.mxd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PROJECT/CLIENT

SITE MANAGEMENT PLAN
FORMER CORNING HOSPITAL
AND RELATED PARCELS
CORNING, NEW YORK
C851049

DRAWING TITLE

FOUNDATION TEST PITTING

ISSUED FOR: FINAL
DESIGNED BY: DPN
DRAWN BY: A.Z.M.
REVIEWED BY: DPN
DATE: OCTOBER, 2018

PROJECT/DRAWING NUMBER

2150606

FIGURE10

# TABLES

Table 2
Remaining Contamination: Soil

Site Management Plan
Former Corning Hospital and Related Parcels
176 Denison Parkway East and 201 East First Street, Corning NY
NYSDEC BCP Site #C851049
LaBella Project # 2150606

REMAINING CONTAMINATION - 201 EAST 1ST STREET PARCEL

| Sample ID | NYSDEC Part 375-6.8(a) Unrestricted Use SCOs | NYSDEC Part 375-6.8(b) Restricted Residential SCOs | SB-39 | SB-58 | SB-61 | AG-SW-02 | AG-SW-04 | AG-SW-05 | AG-SW-06 |
|---|---|---|---|---|---|---|---|---|---|
| Location / Depth | | | 3-4 | 8-10 | 8.5-10 | 5.77 | 5.33 | 5.56 | 5.97 |
| Sample Type | | | Investigation | Investigation | Investigation | Confirmatation | Confirmatation | Confirmatation | Confirmatation |
| Sample Date | | | 19-Apr-16 | 25-Jul-16 | 25-Jul-16 | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 |
| **Metals** | | | | | | | | | |
| Arsenic | 13 | 16 | -- | 20.2 J | 17.7 J | 83.4 | -- | -- | 15 |
| Barium | 350 | 400 | -- | -- | -- | -- | -- | -- | |
| Cadmium | 2.5 | 4.3 | -- | -- | -- | 67.2 | -- | -- | |
| Chromium | 30 | 110 | -- | -- | -- | -- | -- | -- | |
| Copper | 50 | 270 | -- | -- | 577 J | 98 | -- | -- | |
| Lead | 63 | 400 | 225 J | 84.7 J | 956 J | 1870 | 229 | 145 | 160 |
| Mercury | 0.18 | 0.81 | 0.21 J | -- | 0.78 | 2.12 | 0.341 | 0.201 | 0.292 |
| Nickel | 30 | 310 | -- | -- | -- | -- | -- | -- | |
| Selenium | 3.9 | 180 | -- | -- | -- | 29.7 | -- | -- | |
| Silver | 2 | 180 | -- | -- | -- | -- | -- | -- | |
| Zinc | 109 | 10000 | 294 | -- | 469 J | 622 | 175 | 119 | 119 |
| **Pesticides** | | | | | | | | | |
| 4,4'-DDT | 0.0033 | 7.9 | -- | -- | -- | | | | |
| **SVOCs** | | | | | | | | | |
| Benzo(a)anthracene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| Benzo(k)fluoranthene | 0.8 | 1 | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- |
| **VOCs** | | | | | | | | | |
| Acetone | 0.05 | 100 | -- | -- | -- | | | | |
| **PCBs** | | | | | | | | | |
| ***Total PCBs*** | 0.1 | 1 | -- | -- | -- | | | | |

Notes:
- Concentrations reported in milligrams per kilogram (mg/kg) or parts per million (ppm')
- **Bold** font indicates the sample exceeds New York State Department of Environmental Conservation (NYSDEC) Part 375-6.8(a) Soil Cleanup Objectives (SCOs) for Unrestricted Use
- **Bold and red font** indicates the sample exceeds NYSDEC Part 376-6.8(b) SCOs for Restricted Residential Use for the given parameter
- "--" indicates not sampled or the concentration does not exceed applicable SCOs
- NA indicates Not Applicable
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- Blue font represents a change made in the DUSR
- ** indicates the concentration also exceeds USEPA Maximum Concentration of Contaminants
- P indicates the Relative Percent Difference between the results for the two columns exceeds

Table 2
Remaining Contamination: Soil

Site Management Plan
Former Corning Hospital and Related Parcels
176 Denison Parkway East and 201 East First Street, Corning NY
NYSDEC BCP Site #C851049
LaBella Project # 2150606

REMAINING CONTAMINATION - 201 EAST 1ST STREET PARCEL

| Sample ID | NYSDEC Part 375-6.8(a) Unrestricted Use SCOs | NYSDEC Part 375-6.8(b) Restricted Residential SCOs | SS-2 2-12 | SS-2 12-24 | COMP-01 | COMP-DUPE (COMP-01) | COMP-02 | COMP-03 | COMP-04 | COMP-05 |
|---|---|---|---|---|---|---|---|---|---|---|
| Location / Depth | | | Backfill - Reuse Request #4, Depth 2-7 ft. BGS | | Backfill - Reuse Request #4, Depth 2-7 ft. BGS | | | | | |
| Sample Type | | | Investigation | Investigation | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse |
| Sample Date | | | 20-Apr-16 | 20-Apr-16 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 |
| **Metals** | | | | | | | | | | |
| Arsenic | 13 | 16 | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | 350 | 400 | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 2.5 | 4.3 | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | 30 | 110 | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 50 | 270 | -- | **54.7** | -- | -- | -- | -- | -- | -- |
| Lead | 63 | 400 | **78.9** | **282** | **80** | -- | -- | **142** | **149** | -- |
| Mercury | 0.18 | 0.81 | **0.34** | **0.64** | **0.3** | **0.3** | **0.5** | **0.5** | **0.5** | -- |
| Nickel | 30 | 310 | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | 3.9 | 180 | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 2 | 180 | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 109 | 10000 | **157** | **301** | -- | -- | -- | **180** | **160** | -- |
| **Pesticides** | | | | | | | | | | |
| 4,4'-DDT | 0.0033 | 7.9 | -- | -- | -- | -- | **0.00602** | **0.0109** | **0.00371** | |
| **SVOCs** | | | | | | | | | | |
| Benzo(a)anthracene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 1 | 1 | **1.100** | -- | -- | -- | **1.2** | -- | -- | -- |
| Benzo(k)fluoranthene | 0.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- |
| **VOCs** | | | | | | | | | | |
| Acetone | 0.05 | 100 | -- | -- | -- | -- | -- | -- | -- | -- |
| **PCBs** | | | | | | | | | | |
| ***Total PCBs*** | 0.1 | 1 | -- | -- | -- | -- | 0.3 | 0.1 | -- | -- |

Notes:
- Concentrations reported in milligrams per kilogram (mg/kg) or parts per million (ppm')
- **Bold** font indicates the sample exceeds New York State Department of Environmental Conservation (NYSDEC) Part 375-6.8(a) Soil Cleanup Objectives (SCOs) for Unrestricted Use
- **Bold and red font** indicates the sample exceeds NYSDEC Part 376-6.8(b) SCOs for Restricted Residential Use for the given parameter
- "--" indicates not sampled or the concentration does not exceed applicable SCOs
- NA indicates Not Applicable
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- Blue font represents a change made in the DUSR
- ** indicates the concentration also exceeds USEPA Maximum Concentration of Contaminants
- P indicates the Relative Percent Difference between the results for the two columns exceeds

**Table 2**
**Remaining Contamination: Soil**

**Site Management Plan**
**Former Corning Hospital and Related Parcels**
**176 Denison Parkway East and 201 East First Street, Corning NY**
**NYSDEC BCP Site #C851049**
**LaBella Project # 2150606**

**REMAINING CONTAMINATION - 176 DENISON PARKWAY & 171 EAST FIRST STREET PARCELS**

| Sample ID | NYSDEC Part 375-6.8(a) Unrestricted Use SCOs | NYSDEC Part 375-6.8(b) Restricted Residential SCOs | TP-04 | TP-05 | SB-01 | SB-46 | SB-48 | 17A | CORN-HOSP-PH-SUMP-CONF-1 | CORN-HOSP-PH-SUMP-CONF-2 | Composite Duplicate (P2-Comp-01) | P4-COMP-01 | COMP-DUPE2 (P4-Comp-01) | P4-COMP-02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location / Depth | | | 2.5 | 5 | 3-4 | 2-8 | 2-6 | 5 | 20 | 19 | Backfill - Reuse Request #1, Depth 2.5-10.8 ft. BGS | | | |
| Sample Type | | | Investigation | Investigation | Investigation | Investigation | Investigation | ISMP | ISMP | ISMP | Reuse | Reuse | Reuse | Reuse |
| Sample Date | | | 8-May-15 | 8-May-15 | 27-Apr-15 | 19-Apr-16 | 19-Apr-16 | 30-Aug-16 | 30-Aug-17 | 30-Aug-17 | 15-Mar-18 | 15-Mar-18 | 15-Mar-18 | 15-Mar-18 |
| **Metals** | | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | -- | -- | **13.5** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | 350 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 2.5 | 4.3 | **2.52** J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | 30 | 110 | -- | -- | -- | **30.0** | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 50 | 270 | -- | -- | -- | -- | -- | -- | **60.3** | **82.3** | -- | -- | -- | -- |
| Lead | 63 | 400 | **273** J | **160** J | **246** | -- | -- | -- | -- | -- | **96.3** | **73.7** | **77** | **84.7** |
| Manganese | 1600 | 2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | 0.18 | 0.81 | **0.547** J | **0.425** J | **0.211** | **1.3 J** | **0.7 J** | -- | -- | -- | **0.22** | **0.19** | **0.18** | **0.18** |
| Nickel | 30 | 310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | 3.9 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 2 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 109 | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Pesticides** | | | | | | | | | | | | | | |
| 4,4'-DDT | 0.0033 | 7.9 | -- | -- | -- | **0.017** J | **0.0061 J** | -- | -- | -- | -- | -- | **0.00732** | -- |
| 4,4'-DDE | 0.0033 | 8.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **SVOCs** | | | | | | | | | | | | | | |
| Benzo(a)anthracene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(k)fluoranthene | 0.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **VOCs** | | | | | | | | | | | | | | |
| Acetone | 0.05 | 100 | -- | -- | -- | -- | -- | **0.087** | -- | -- | -- | -- | -- | -- |
| **PCBs** | | | | | | | | | | | | | | |
| ***Total PCBs*** | 0.1 | 1 | -- | -- | -- | **0.330** J | -- | -- | -- | -- | -- | **0.109** | -- | **0.231** |

Notes:
- Concentrations reported in milligrams per kilogram (mg/kg) or parts per million (ppm')
Conservation (NYSDEC) Part 375-6.8(a) Soil Cleanup Objectives (SCOs) for Unrestricted Use for the given parameter
- **Bold and red font** indicates the sample exceeds NYSDEC Part 376-6.8(b) SCOs for Restricted Residential Use for the given parameter
- "--" indicates not sampled or the concentration does not exceed applicable SCOs
- NA indicates Not Applicable
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- Blue font represents a change made in the DUSR
- ** indicates the concentration also exceeds USEPA Maximum Concentration of Contaminants for Toxicity Characteristics
- P indicates the Relative Percent Difference between the results for the two columns exceeds the mehod specified criteria.

**Table 2**
**Remaining Contamination: Soil**

**Site Management Plan**
**Former Corning Hospital and Related Parcels**
**176 Denison Parkway East and 201 East First Street, Corning NY**
**NYSDEC BCP Site #C851049**
**LaBella Project # 2150606**

**REMAINING CONTAMINATION - 176 DENISON PARKWAY & 171 EAST FIRST STREET PARCELS**

| Sample ID | NYSDEC Part 375-6.8(a) Unrestricted Use SCOs | NYSDEC Part 375-6.8(b) Restricted Residential SCOs | P1A-COMP-01 | P1A-COMP-DUPE (Duplicate of P1A-COMP-01) | P1A-COMP-02 | P1B-COMP-01 | P1B-COMP-02 | P7-Comp-01 | P7-Comp-Dupe (P7-Comp-01) | P7-Comp-02 | P7-Comp-03 | P7-Comp-Dupe2 (P7-Comp-03) | P7-Comp-04 | P7-Comp-05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location / Depth | | | Backfill - Reuse Request #2, Depth 2.5-10.8 ft. BGS | | | | | Backfill - Reuse Request #3, Depth 2-6 ft. BGS | | | | | | |
| Sample Type | | | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse |
| Sample Date | | | 2-Apr-18 | 2-Apr-18 | 2-Apr-18 | 2-Apr-18 | 2-Apr-18 | 18-Jun-18 | 18-Jun-18 | 18-Jun-18 | 18-Jun-18 | 18-Jun-18 | 18-Jun-18 | 18-Jun-18 |
| **Metals** | | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | -- | -- | -- | -- | -- | -- | **36.6** | -- | -- | -- | -- | -- |
| Barium | 350 | 400 | -- | -- | -- | -- | -- | -- | **557** | -- | -- | -- | -- | -- |
| Cadmium | 2.5 | 4.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | 30 | 110 | -- | -- | -- | -- | -- | -- | **44.1** | -- | -- | -- | -- | -- |
| Copper | 50 | 270 | **2500** | -- | -- | -- | -- | -- | **159** | -- | -- | -- | -- | -- |
| Lead | 63 | 400 | -- | -- | -- | -- | -- | **68.4** | **302** | **104** | **74.6** | **93.3** | -- | **84.6** |
| Manganese | 1600 | 2000 | -- | -- | -- | -- | -- | -- | **2230** | -- | -- | -- | -- | -- |
| Mercury | 0.18 | 0.81 | **0.204** | -- | **0.2** | **0.289** | **0.198** | **0.32** | **0.31** | **0.434** | **0.256** | **0.274** | **0.236** | **0.288** |
| Nickel | 30 | 310 | -- | -- | -- | -- | -- | -- | **63.2** | -- | -- | -- | -- | -- |
| Selenium | 3.9 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 2 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 109 | 10000 | -- | -- | -- | -- | -- | -- | **384** | -- | -- | -- | -- | -- |
| **Pesticides** | | | | | | | | | | | | | | |
| 4,4'-DDT | 0.0033 | 7.9 | **0.00495** | -- | -- | **0.0112** P | **0.0102** P | -- | -- | **0.00476** | **0.00789** P | **0.00805** P | -- | **0.00807** P |
| 4,4'-DDE | 0.0033 | 8.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **SVOCs** | | | | | | | | | | | | | | |
| Benzo(a)anthracene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 1 | 1 | -- | -- | **1** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(k)fluoranthene | 0.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | -- | -- | **0.58** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **VOCs** | | | | | | | | | | | | | | |
| Acetone | 0.05 | 100 | -- | -- | -- | **0.127** | -- | -- | -- | -- | -- | -- | -- | -- |
| **PCBs** | | | | | | | | | | | | | | |
| ***Total PCBs*** | 0.1 | 1 | **0.2** | **0.155** | **0.335** | -- | -- | -- | -- | 0.224 | -- | -- | -- | -- |

Notes:
- Concentrations reported in milligrams per kilogram (mg/kg) or parts per million (ppm')
Conservation (NYSDEC) Part 375-6.8(a) Soil Cleanup Objectives (SCOs) for Unrestricted Use for the given parameter
- **Bold and red font** indicates the sample exceeds NYSDEC Part 376-6.8(b) SCOs for Restricted Residential Use for the given parameter
- "--" indicates not sampled or the concentration does not exceed applicable SCOs
- NA indicates Not Applicable
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- Blue font represents a change made in the DUSR
- ** indicates the concentration also exceeds USEPA Maximum Concentration of Contaminants for Toxicity Characteristics
- P indicates the Relative Percent Difference between the results for the two columns exceeds the mehod specified criteria.

**Table 2**
**Remaining Contamination: Soil**

**Site Management Plan**
**Former Corning Hospital and Related Parcels**
**176 Denison Parkway East and 201 East First Street, Corning NY**
**NYSDEC BCP Site #C851049**
**LaBella Project # 2150606**

**REMAINING CONTAMINATION - 176 DENISON PARKWAY & 171 EAST FIRST STREET PARCELS**

| Sample ID | NYSDEC Part 375-6.8(a) Unrestricted Use SCOs | NYSDEC Part 375-6.8(b) Restricted Residential SCOs | FILL-COMP-01 | COMP-DUPE (FILL-COMP-01) | P11-02 | SS-2 2-12 | SS-2 12-24 | COMP-01 | COMP-DUPE (COMP-01) | COMP-02 | COMP-03 | COMP-04 | COMP-05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location / Depth | | | Area 2 Mining Test Pits, Depth 2-6 ft. BGS | | Backfill - Depth 0-2 ft. BGS | Backfill - Reuse Request #4, Depth 2-2.5 ft. BGS | | Backfill - Reuse Request #4, Depth 2-2.5 ft. BGS | | | | | |
| Sample Type | | | Remaining Below Cover | | Reuse | Investigation | Investigation | Reuse | Reuse | Reuse | Reuse | Reuse | Reuse |
| Sample Date | | | 14-Jun-18 | 14-Jun-18 | 25-May-18 | 20-Apr-16 | 20-Apr-16 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 | 11-Jul-18 |
| **Metals** | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | 350 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 2.5 | 4.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | 30 | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 50 | 270 | -- | **54** | -- | -- | **54.7** | -- | -- | -- | -- | -- | -- |
| Lead | 63 | 400 | **211** | **564** | -- | **78.9** | **282** | **80** | -- | -- | **142** | **149** | -- |
| Manganese | 1600 | 2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | 0.18 | 0.81 | **0.239** | **0.927** | -- | **0.34** | **0.64** | **0.3** | **0.3** | **0.5** | **0.5** | **0.5** | -- |
| Nickel | 30 | 310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | 3.9 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 2 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 109 | 10000 | **224** | **280** | -- | **157** | **301** | -- | -- | -- | **180** | **160** | -- |
| **Pesticides** | | | | | | | | | | | | | |
| 4,4'-DDT | 0.0033 | 7.9 | -- | -- | -- | -- | -- | -- | -- | **0.00602** | **0.0109** | **0.00371** | |
| 4,4'-DDE | 0.0033 | 8.9 | -- | **0.00954** J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **SVOCs** | | | | | | | | | | | | | |
| Benzo(a)anthracene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 1 | 1 | -- | -- | -- | **1.100** | -- | -- | -- | **1.2** | -- | -- | -- |
| Benzo(k)fluoranthene | 0.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **VOCs** | | | | | | | | | | | | | |
| Acetone | 0.05 | 100 | -- | -- | **0.16** | -- | -- | -- | -- | -- | -- | -- | -- |
| **PCBs** | | | | | | | | | | | | | |
| ***Total PCBs*** | 0.1 | 1 | -- | -- | -- | -- | -- | -- | -- | 0.3 | 0.1 | -- | -- |

Notes:
- Concentrations reported in milligrams per kilogram (mg/kg) or parts per million (ppm')
Conservation (NYSDEC) Part 375-6.8(a) Soil Cleanup Objectives (SCOs) for Unrestricted Use for the given parameter
- **Bold and red font** indicates the sample exceeds NYSDEC Part 376-6.8(b) SCOs for Restricted Residential Use for the given parameter
- "--" indicates not sampled or the concentration does not exceed applicable SCOs
- NA indicates Not Applicable
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- Blue font represents a change made in the DUSR
- ** indicates the concentration also exceeds USEPA Maximum Concentration of Contaminants for Toxicity Characteristics
- P indicates the Relative Percent Difference between the results for the two columns exceeds the mehod specified criteria.

**Table 3**
**Remaining Contamination: Groundwater**

**Site Management Plan**
**Former Corning Hospital and Related Parcels**
**176 Denison Parkway East and 201 East First Street, Corning NY**
**NYSDEC BCP Site #C851049**
**LaBella Project # 2150606**

| Sample ID | NYSDEC Part 703 Groundwater Quality Standards | Sump-1 | Sump1-East | | Sump1-West | | Recharge (Supply) Well | | MW-07 | | MW-09 | MW-10 | MW-11 | MW-13 | MW-19 | MW-20 | MW-21 | | MW-22 | MW-23 | MW-24 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Screened depth interval (feet bgs) | | NA | NA | | NA | | NA | | 8-18 | | 8-18 | 9-19 | 7-17 | 12-22 | 10-20 | 10-20 | 55-70 | | 30-40 | 10-20 | 15-25 | |
| n interval (feet above mean sea level) | | NA | NA | | NA | | NA | | 914.94-904.94 | | 912.07-907.07 | 910.47-905.47 | 912.68-907.68 | 928.36-918.36 | 913.58-903.58 | 914.73-904.73 | 869.48-854.48 | | 896.62-886.62 | 913.00-903.00 | 929.86-904.86 | |
| Sample Date | | 5-May-15 | 18-Apr-16 | 10-Aug-16 | 18-Apr-16 | 10-Aug-16 | 20-Apr-16 | 10-Aug-16 | 6-May-15 | 31-May-16 | 1-Jun-16 | 1-Jun-16 | 31-May-16 | 6-May-15 | 31-May-16 | 31-May-16 | 31-May-16 | 10-Aug-16 | 31-May-16 | 1-Jun-16 | 1-Jun-16 | 9-Aug-16 |
| **VOCs** | | | | | | | | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 5 | -- | -- | -- | -- | -- | -- | -- | 6.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Trichloroethene | 5 | 24.4 J | -- | -- | -- | -- | 29 J | 13 | 14.3 J | -- | -- | -- | -- | 10.0 J | -- | -- | -- | 15* | -- | -- | -- | 9.3 |
| **SVOCs** | | | | | | | | | | | | | | | | | | | | | | |
| Pentachlorophenol | 1 | -- | -- | -- | -- | 7.1 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | 0.002 | -- | -- | -- | 2.1 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 0.002 | -- | -- | -- | 2.6 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Bis(2-ethylhexyl)phthalate | 5 | -- | -- | 190 DJ | 28 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 0.002 | -- | -- | -- | 2.0 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeo(1,2,3-c,d)pyrene | 0.002 | -- | -- | -- | 1.1 J* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **METALS** | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | 3 | -- | 9.0 B | -- | 6.6 B* | -- | 11.3 B | -- | -- | 9.1 B | 10.5 B | 8.3 B | 8.6 B | -- | 9.3 B | 9.2 B | 6.5 B | -- | 8.6 B | 11.6 B | 11.5 B | -- |
| Iron | 300 | -- | 338 | -- | -- | -- | 305 | -- | -- | 318 | -- | -- | -- | -- | 1,230 | 561 | -- | -- | -- | -- | -- | -- |
| Magnesium | 35,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 49100 | -- | -- | -- | -- | 58100 | -- | -- |
| Manganese | 300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5,880 | 2,580 | -- | -- | 865 | 1,200 | -- | -- |
| Sodium | 20,000 | -- | -- | -- | -- | -- | 88800 | -- | -- | 212,000 | 190,000 | 213,000 | 188,000 | -- | 258,000 | 116,000 | 86,700 | -- | 207,000 | 452,000 | 236,000 | -- |

Notes:
Concentrations in micrograms per liter (ug/L) or parts per billion (ppb)
**Yellow highlight** indicates the sample exceeds New York State Department of Environmental Conservation (NYSDEC) Part 703 Groundwater Quality Standards for Class GA for the given paramete
J - Estimated value
B - Analyte detected in the associated Method Blank
Blue font represents a change made in the DUSR
*concentration was detected in the blind duplicate collected from this sample
"--" indicates not sampled or the concentration does not exceed applicable SCOs

**Former Corning Hospital and Related Parcels**
**BCP Site #C851049**
**Site Management Plan**
**Table 4**
**Groundwater Elevations**

| | | | | | | | | May 2015 | | May 2016 | | August 2016 | | October 2016 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grid Northing (USft) | Grid Easting (USft) | Elevation (USft) | SB ID | MW ID | Depth of Well (ft bgs) | Screened Interval (ft bgs) | Screened Interval (USft) | Static Water Level (ft bgs) | Static Water Level (USft) | Static Water Level (ft bgs) | Static Water Level (USft) | Static Water Level (ft bgs) | Static Water Level (USft) | Static Water Level (ft bgs) | Static Water Level (USft) |
| 780398.99 | 694487.98 | 924.69 | SB-01 | MW-01 | 16 | 11-16 | 908.69 - 913.69 | 15.45 | 909.24 | Dry | | Dry | | Dry | |
| 780366.09 | 694502.94 | 924.76 | SB-02 | MW-02 | 11 | 6-11 | 913.76 - 918.76 | Dry | | Dry | | Dry | | Dry | |
| 780411.91 | 694425.94 | 924.61 | SB-03 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780370.39 | 694196.17 | 923.92 | SB-04 | MW-03 | 17.5 | 7.5-17.5 | 906.42 - 916.42 | 15.71 | 908.21 | 16.24 | 907.68 | Could Not Locate | | Dry | |
| 780386.32 | 694239.68 | 923.83 | SB-05 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780439.08 | 694195.39 | 925.67 | SB-06 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780444.14 | 694176.18 | 925.86 | SB-07 | MW-04 | 19 | 9-19 | 906.86 - 916.86 | 17.65 | 908.21 | 18.08 | 907.78 | 18.65 | 907.21 | 17.36 | |
| 780068.79 | 694570.93 | 925.07 | SB-17 | MW-09 | 18 | 8-18 | 907.07 - 917.07 | 17.01 | 908.06 | 17.45 | 907.62 | Dry | | Dry | |
| 780102.43 | 694532.84 | 925.12 | SB-18 | - | | | - | - | - | | | | | | |
| 780080.16 | 694529.53 | 924.47 | SB-19 | MW-10 | 19 | 9-19 | 905.47 - 915.47 | 16.40 | 908.07 | 16.88 | 907.59 | 18.66 | 905.81 | 18.60 | 905.87 |
| 780113.86 | 694509.09 | 923.49 | SB-20 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780277.84 | 694224.78 | 923.05 | SB-21 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780367.84 | 694106.85 | 928.91 | SB-22 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780313.96 | 694198.70 | 924.68 | SB-23 | MW-11 | 17 | 7-17 | 907.68 - 917.68 | 16.51 | 908.17 | 16.96 | 907.72 | Dry | | Could Not Locate | |
| 780421.03 | 694132.39 | 926.47 | SB-24 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780208.20 | 694141.03 | 928.36 | SB-26 | MW-13 | 22 | 12-22 | 906.36 - 916.36 | 20.25 | 908.11 | 20.61 | 907.75 | Dry | | Could Not Locate | |
| 780350.30 | 694166.24 | 914.19 | SB-29 | - | - | - | - - - | - | - | - | - | - | - | | |
| - | - | - | SB-30 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780282.07 | 694219.65 | 922.94 | SB-31 | MW-07 | 18 | 8-18 | 904.94 - 914.94 | 14.87 | 908.07 | 15.22 | 907.72 | 16.42 | 906.52 | Could Not Locate | |
| 780502.69 | 694092.01 | 927.13 | SB-32 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780497.11 | 694158.79 | 926.59 | SB-33 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780452.66 | 694294.27 | 925.38 | SB-34 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780434.43 | 694376.50 | 925.11 | SB-35 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780180.67 | 694561.93 | 925.42 | SB-36 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780146.39 | 694649.50 | 925.32 | SB-37 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780104.15 | 694572.54 | 925.43 | SB-38 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780072.03 | 694617.81 | 925.34 | SB-39 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780334.53 | 694403.30 | 922.13 | SB-40 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780423.95 | 694335.86 | 924.81 | SB-41 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780424.05 | 694335.72 | 924.79 | SB-41 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780391.03 | 694279.22 | 924.58 | SB-42 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780413.57 | 694075.79 | 928.11 | SB-43 | - | - | - | - - - | - | - | - | - | - | - | | |
| - | - | - | SB-44 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780252.92 | 694293.93 | 910.76 | SB-45 | MW-14 | 5 | 0-5 | 905.76 - 910.76 | - | - | 3.01 | 907.75 | 5.14 | 905.62 | In building - no access | |
| 780291.70 | 694304.23 | 910.79 | SB-46 | MW-15 | 5 | 0-5 | 905.79 - 910.79 | - | - | 3.08 | 907.71 | 5.07 | 905.72 | In building - no access | |
| 780314.76 | 694310.48 | 910.76 | SB-47 | MW-16 | 1.5 | 0-1.5 | 909.26 - 910.76 | - | - | Dry | | Dry | | In building - no access | |
| 780231.83 | 694334.10 | 910.79 | SB-48 | MW-17 | 5 | 0-5 | 905.79 - 910.79 | - | - | 3.08 | 907.71 | 5.02 | 905.77 | In building - no access | |
| 780253.65 | 694312.97 | 910.78 | SB-49 | MW-18 | 5 | 0-5 | 905.78 - 910.78 | - | - | 3.19 | 907.59 | 5.09 | 905.69 | In building - no access | |
| 780240.26 | 694469.54 | 923.01 | SB-51 | MW-19 | 20 | 10-20 | 903.01 - 913.01 | - | - | 16.42 | 906.59 | 17.70 | 905.31 | Could not locate | |
| 780387.05 | 694499.67 | 924.05 | SB-50 | MW-20 | 20 | 10-20 | 904.05 - 914.05 | - | - | 16.48 | 907.57 | 18.20 | 905.85 | 18.36 | 905.69 |
| 780411.80 | 694408.97 | 924.00 | SB-52 | MW-21 | 70 | 55-70 | 854.00 - 869.00 | - | - | 16.46 | 907.54 | 18.62 | 905.38 | Could Not Locate | |
| 780166.26 | 694179.71 | 926.34 | SB-53 | MW-22 | 40 | 30-40 | 886.34 - 896.34 | - | - | 18.66 | 907.68 | 20.92 | 905.42 | Could Not Locate | |
| 780115.51 | 694418.22 | 922.44 | SB-54 | MW-23 | 20 | 10-20 | 902.44 - 912.44 | - | - | 14.90 | 907.54 | 17.01 | 905.43 | 16.68 | |
| 780246.28 | 694035.71 | 929.41 | SB-55 | MW-24 | 25 | 15-25 | 904.41 - 914.41 | - | - | 21.45 | 907.96 | 23.77 | 905.64 | 23.34 | 906.07 |
| 780086.49 | 694559.63 | 925.60 | SB-56 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780067.18 | 694547.90 | 924.71 | SB-57 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780060.72 | 694564.18 | 924.53 | SB-58 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780073.74 | 694573.87 | 925.29 | SB-59 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780056.00 | 694574.83 | 924.57 | SB-60 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780088.33 | 694573.45 | 925.57 | SB-61 | - | - | - | - - - | - | - | - | - | - | - | | |
| 780092.82 | 694550.81 | 925.50 | SB-62 | - | - | - | - - - | - | - | - | - | - | - | | |
| - | - | 907.85 | Sump elev. | - | - | - | - - - | - | - | - | - | - | - | | |

Notes:
static water levels and elevations measured from top of PVC casing
Horizontal datum: NAD83
Vertical datum: NAVD88
ft bgs = feet below ground surface
USft = feet above mean sea level
"-"indicates not applicable

## APPENDIX A – LIST OF SITE CONTACTS

| Name | Phone/Email Address |
|---|---|
| **Site Owner:**<br>Riedman Purcell CHI LLC and<br>Riedman Purcell CHII LLC<br>Attn: Jerry Watkins | 585-232-2600<br>jwatkins@riedman.com |
| **Remedial Parties:**<br>Corning Hospital<br>The Guthrie Clinic<br>Corning Properties, Inc.<br>Attn: Anita Kingsbauer | 570-887-4317,<br>kingsbauer_anita@guthrie.org |
| **Qualified Environmental Professional:**<br>LaBella Associates, D.P.C.<br>Daniel P. Noll, P.E. | 585-295-6611, dnoll@labellapc.com |
| **NYSDEC DER Project Manager:**<br>Timothy Schneider | 585-226-5480,<br>timothy.schneider@dec.ny.gov |
| **NYSDEC Regional HW Engineer**<br>Bernette Schilling | 585-226-5315,<br>bernette.schilling@dec.ny.gov |
| **NYSDEC Site Control**<br>Kelly A. Lewandowski, P.E. | 518-402-9547,<br>kelly.lewandowski@dec.ny.gov |
| **NYSDOH Project Manager:**<br>Mark Sergott, P.G. | 518-402-7860<br>beei@health.ny.gov |
| **Remedial Party Attorney:**<br>Harter Secrest & Emery LLP<br>Paul Sylvestri | 585-231-1194, psylvestri@hselaw.com |

## APPENDIX B – EXCAVATION WORK PLAN (EWP)

### 2-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the NYSDEC. Table 2-1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix A.

**Table 2-1: Notifications***

| | |
|---|---|
| NYSDEC Project Manager; Timothy Schneider | 585-226-5480, timothy.schneider@dec.ny.gov |
| NYSDEC Regional HW Engineer; Bernette Schilling | 585-226-5315, bernette.schilling@dec.ny.gov |
| NYSDEC Site Control Kelly A. Lewandowski, P.E. | 518-402-9547, kelly.lewandowski@dec.ny.gov |

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed or decommissioned below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix G of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

## 2-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done in areas of known or potentially contaminated material and will include all excavation and invasive work performed during development in those areas, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section 2-6 of this Appendix.

## 2-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

## 2-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation in areas of known or potentially contaminated material and load-out of all such excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities in areas of known or potentially contaminated material. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

## 2-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material from areas of known or potentially contaminated material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are to be determined by the contractor. The route will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport; (g) community input.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

## 2-6 MATERIALS DISPOSAL OFF-SITE

All material excavated from areas of known or potentially contaminated material and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill, excluding crushed concrete and clean backfill from building demolition, and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

## 2-7 MATERIALS REUSE ON-SITE

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

## 2-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

## 2-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the decision document. The existing cover system is comprised of a minimum of 24 inches of clean soil, gravel, or crushed recycled masonry, etc. The demarcation layer, consisting of orange mirafi fabric, or similar, will be replaced to provide a visual reference to the top of the remaining

contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

## 2-10 BACKFILL FROM OFF-SITE SOURCES

All fill materials or soil proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are 6NYCRR 375-6.8(b) Restricted Residential Use SCOs. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

## 2-11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

## 2-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

## 2-13 COMMUNITY AIR MONITORING PLAN

Air monitoring will be completed during subsurface work in areas of known or potentially contaminated material. Air sampling locations are to be determined in the field based on prevailing wind directions. A figure showing the location of air sampling stations based on generally prevailing wind conditions is shown in Figure 8. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

## 2-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site. Based on the known environmental conditions, the use of specific odor control methods on a routine basis is not anticipated to be necessary. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls,

including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

## 2-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved though the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

## 2-16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

# APPENDIX C
# RESPONSIBILITIES of
# OWNER and REMEDIAL PARTY

## Responsibilities

The owner is responsible for implementing the Site Management Plan ("SMP") for the Former Corning Hospital and Related Parcels site (the "site"), number C851049. The owners of the site parcels at the time of issuance of this SMP are:

- Riedman Purcell CHII LLC for176 Denison Parkway East and 171 East First Street and

- Riedman Purcell CHI LLC for 201 East First Street

These companies have a common address of 45 East Avenue, Rochester, NY 14604 and are collectively are referred to as the "owner".

Nothing on this page shall supersede the provisions of an Environmental Easement, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the site.

## Site Owner's Responsibilities:

1) The owner shall follow the provisions of the SMP as they relate to future construction and excavation at the site.

2) In accordance with a periodic time frame determined by the NYSDEC, the owner shall periodically certify, in writing, that all Institutional Controls set forth in a(n) Environmental Easement remain in place and continue to be complied with.

3) In the event the site is delisted, the owner remains bound by the Environmental Easement and shall submit, upon request by the NYSDEC, a written certification that the Environmental Easement is still in place and has been complied with.

4) The owner shall grant access to the site to the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.

5) The owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. In the event that damage to the remedial components or vandalism is evident, the owner shall notify the NYSDEC in accordance with the timeframes indicated in Section 1.3-Notifications.

6) In the event some action or inaction by the owner adversely impacts the site, the owner must notify the NYSDEC in accordance with the time frame indicated in Section 1.3-- Notifications and (ii) performance of necessary corrective actions.

7) The owner must notify the NYSDEC of any change in ownership of the site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the site property/ies. 6 NYCRR Part contains

notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. Notification requirements for a change in use are detailed in Section 2.4 of the SMP. A 60-Day Advance Notification Form and Instructions are found at http://www.dec.ny.gov/chemical/76250.html.

8) The owner will maintain the engineering controls.

9) Until such time as the NYSDEC deems the vapor mitigation system unnecessary, the owner shall operate any systems that are present (note, none are currently in place), pay for the utilities for the system's operation, and report any maintenance issues to the NYSDEC.

8) In accordance with the tenant notification law, within 15 days of receipt, the owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds NYSDOH or OSHA guidelines on the site, whether produced by the NYSDEC, or owner, to the tenants on the property. The owner must otherwise comply with the tenant and occupant notification provisions of Environmental Conservation Law Article 27, Title 24.

10) The owner shall report to the NYSDEC all activities required for remediation, operation, maintenance, monitoring, and reporting. Such reporting includes, but is not limited to, periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.

11) If the NYSDEC determines that an update of the SMP is necessary, the owner shall update the SMP and obtain final approval from the NYSDEC. Within 5 business days after NYSDEC approval, the owner shall submit a copy of the approved SMP to the owner(s).

12) The owner shall notify the NYSDEC of any changes in ownership and/or control and of any changes in the party/entity responsible for the operation, maintenance, and monitoring of and reporting with respect to any remedial system (Engineering Controls). The owner shall provide contact information for the new party/entity. Such activity constitutes a Change of Use pursuant to 375-1.11(d) and requires 60-days prior notice to the NYSDEC. A 60-Day Advance Notification Form and Instructions are found at http://www.dec.ny.gov/chemical/76250.html .

13) Prior to a change in use that impacts the remedial system or requirements and/or responsibilities for implementing the SMP, the owner shall submit to the NYSDEC for approval an amended SMP.

14) Any change in use, change in ownership, change in site classification (*e.g.*, delisting), reduction or expansion of remediation, and other significant changes related to the site may result in a change in responsibilities and, therefore, necessitate an update to the SMP and/or updated legal documents. The owner shall contact the Department to discuss the need to update such documents.

Future site owners are required to carry out the activities set forth above.

# APPENDIX D – ENVIRONMENTAL EASEMENT

HSE

Harter Secrest & Emery LLP

ATTORNEYS AND COUNSELORS

WWW.HSELAW.COM

November 10, 2017

**VIA CERTIFIED MAIL**
**RETURN RECEIPT REQUESTED**

City Clerk
City of Corning
500 Nasser Civic Center Plaza #1
Corning, NY 14830

County Manager
Steuben County
3 East Pulteney Square
Bath, NY 14810

**Re: Environmental Easement**

Dear Sir or Madam:

Enclosed please find a copy of an Environmental Easement granted to the New York State Department of Environmental Conservation ("DEC" or "department") by Corning Properties, Inc. concerning property located at 176 East Denison Parkway and 201 East First Street, City of Corning, Steuben County, and having Tax Map Numbers of 318.09-01-018.000 and 318.09-01-013.000, respectively, and also known as New York State Brownfield Cleanup Program Site No: C851049 (the "Site"). This Environmental Easement was filed in the Steuben County Clerk's Office on September 8, 2017 at Book 2670, Page 32.

The Environmental Easement restricts future use of the above-referenced property to Restricted Residential, Commercial, and Industrial uses. Any on-site activity must be done in accordance with the Environmental Easement and the Site Management Plan that is incorporated into the Environmental Easement. Department approval is also required prior to any groundwater use.

Article 71, Section 71-3607 of the New York State Environmental Conservation Law requires that:

1. Whenever the department is granted an environmental easement, it shall provide each affected local government with a copy of such easement and shall also provide a copy of any documents modifying or terminating such environmental easement.

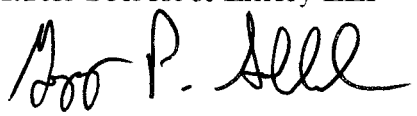
2. Whenever an affected local government receives an application for a building permit or any other application affecting land use or development of land that is subject to an environmental easement and that may relate to or impact such easement, the affected local government shall notify the department and refer

such application to the department. The department shall evaluate whether the application is consistent with the environmental easement and shall notify the affected local government of its determination in a timely fashion, considering the time frame for the local government's review of the application. The affected local government shall not approve the application until it receives approval from the department.

An electronic version of every environmental easement that has been accepted by the DEC is available to the public at: http://www.dec.ny.gov/chemical/36045.html. Please forward this notice to your building and/or planning departments, as applicable, to ensure your compliance with these provisions of New York State Environmental Conservation Law. If you have any questions or comments regarding this matter, please do not hesitate to contact me.

Very truly yours,

Harter Secrest & Emery LLP



Gregory P. Scholand
DIRECT DIAL: 716.844.3714
EMAIL: GSCHOLAND@HSELAW.COM

Enclosure

# STEUBEN COUNTY – STATE OF NEW YORK
JUDITH M. HUNTER, COUNTY CLERK
3 EAST PULTENEY SQUARE, BATH, NEW YORK 14810

## COUNTY CLERK'S RECORDING PAGE
***THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH***

BOOK/PAGE: 2670 / 32

Receipt#: 20170030003
Clerk: DMN
Rec Date: 09/08/2017 10:11:58 AM
Doc Grp: DEE
Descrip: EASEMENTS
Num Pgs: 11
Rec'd Frm: HARTER SECREST & EMERY LLP

Party1: CORNING PROPERTIES INC
Party2: NYS PEOPLE
Town: CORNING CITY

Recording:

| | |
|---|---|
| Cover Page | 5.00 |
| Recording Fee | 70.00 |
| Cultural Ed | 14.25 |
| Records Management - Coun | 1.00 |
| Records Management - Stat | 4.75 |
| TP584 | 5.00 |
| Sub Total: | 100.00 |
| Transfer Tax | |
| Transfer Tax - State | 0.00 |
| Sub Total: | 0.00 |
| Total: | 100.00 |

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 449
Transfer Tax
Consideration: 0.00

Total: 0.00

Record and Return To:

HARTER SECREST & EMERY
1600 BAUSCH & LOMB PL
ROCEHSTER NY 14604-7051

WARNING***
I hereby certify that the within and foregoing was recorded in the Steuben County Clerk's Office, State of New York. This sheet constitutes the Clerks endorsement required by Section 319 of the Real Property Law of the State of New York.

Judith M. Hunter
Steuben County Clerk

## ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

**THIS INDENTURE** made this 21st day of August, 2017 between Owner(s) Corning Properties, Inc., having an office at 1 Guthrie Drive, Corning, New York 14830, County of Steuben, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

**WHEREAS,** the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

**WHEREAS,** the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

**WHEREAS,** the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

**WHEREAS,** Grantor, is the owner of real property located at the address of 176 East Denison Parkway in the City of Corning, County of Steuben and State of New York, known and designated on the tax map of the County Clerk of Steuben as tax map parcel numbers: Section 318.09 Block 01 Lot 018.00, being the same as that property conveyed to Grantor by deed dated February 23, 2016 and recorded in the Steuben County Clerk's Office in Liber and Page 2580/158. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 4.054 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 12, 2017 prepared by Daniel L. Walter, L.L.S. of Fagan Engineers & Land Surveyors PC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Parcel "A" in Schedule A; and

**WHEREAS,** Grantor, is the owner of real property located at the address of 201 East First Street in the City of Corning, County of Steuben and State of New York, known and designated on the tax map of the County Clerk of Steuben as tax map parcel numbers: Section 318.09 Block 01 Lot 013, being the same as that property conveyed to Grantor by deed dated February 23, 2016

and recorded in the Steuben County Clerk's Office in Liber and Page 2580/158. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.717 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 12, 2017 prepared by Daniel L. Walter, L.L.S. of Fagan Engineers & Land Surveyors PC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Parcel "B" in Schedule A; and

**WHEREAS**, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE**, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C851049-06-15 as amended January 29, 2016, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

**Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)**

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without

necessary water quality treatment as determined by the NYSDOH or the Steuben County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

**This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.**

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: C851049
Office of General Counsel
NYSDEC

625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

**Remainder of Page Intentionally Left Blank**

**IN WITNESS WHEREOF,** Grantor has caused this instrument to be signed in its name.

Corning Properties, Inc.:

By: Garrett Hoover

Print Name: Garrett Hoover

Title: President Date: 7-28-17

**Grantor's Acknowledgment**

STATE OF NEW YORK )
) ss:
COUNTY OF Steuben )

On the 28th day of July, in the year 2017, before me, the undersigned, personally appeared Garrett Hoover, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (~~are~~) subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/her/their capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

NOTARY PU... OF NEW YORK
QUA... COUNTY
... 1, 2018

**THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK**, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

**Grantee's Acknowledgment**

STATE OF NEW YORK )
) ss:
COUNTY OF ALBANY )

On the 21ST day of August, in the year 2017 before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

**David J. Chiusano**
**Notary Public, State of New York**
**No. 01CH5032146**
**Qualified in Schenectady County**
**Commission Expires August 22, 2018**

## SCHEDULE "A" PROPERTY DESCRIPTION

ENVIRONMENTAL EASEMENT AREA DESCRIPTION:

PARCEL "A"

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF CORNING, COUNTY OF STEUBEN AND STATE OF NEW YORK, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT A DRILL HOLE IN CONCRETE MARKING THE INTERSECTION OF THE SOUTHERLY RIGHT OF WAY LINE OF DENISON PARKWAY EAST WITH THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET; THENCE

1. S 76° 01' 35" E, ALONG THE SOUTHERLY RIGHT OF WAY LINE OF DENISON PARKWAY EAST, A DISTANCE OF 504.65 FEET TO A POINT; THENCE

2. S 13° 58' 25" W, A DISTANCE OF 350.00 FEET TO A POINT LYING ON THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET; THENCE

3. N 76° 01' 35" W, A DISTANCE OF 504.65 FEET TO A POINT LYING AT RIGHT OF WAY LINE AT THE INTERSECTION OF EAST FIRST STREET, AND CHEMUNG STREET; THENCE

4. N 13° 58' 25" E, A DISTANCE 165.00 FEET ALONG THE EASTERLY RIGHT OF WAY OF CHEMUNG STREET TO A POINT; THENCE

5. N 13° 58' 25" E ALONG THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET A DISTANCE OF 20.00 FEET TO A POINT; THENCE

6. N 13° 58' 25" E, ALONG THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET A DISTANCE OF 165.00 FEET TO A POINT AND THE PLACE OF BEGINNING AND CONTAINING 4.054 ACRES.

PARCEL "B"

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF CORNING, COUNTY OF STEUBEN AND STATE OF NEW YORK, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT AN IRON PIN SET ON THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET. THE POINT BEING 567.65 FEET FROM THE INTERSECTION OF CHEMUNG STREET AND EAST FIRST STREET MEASURED ALONG THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET; THENCE

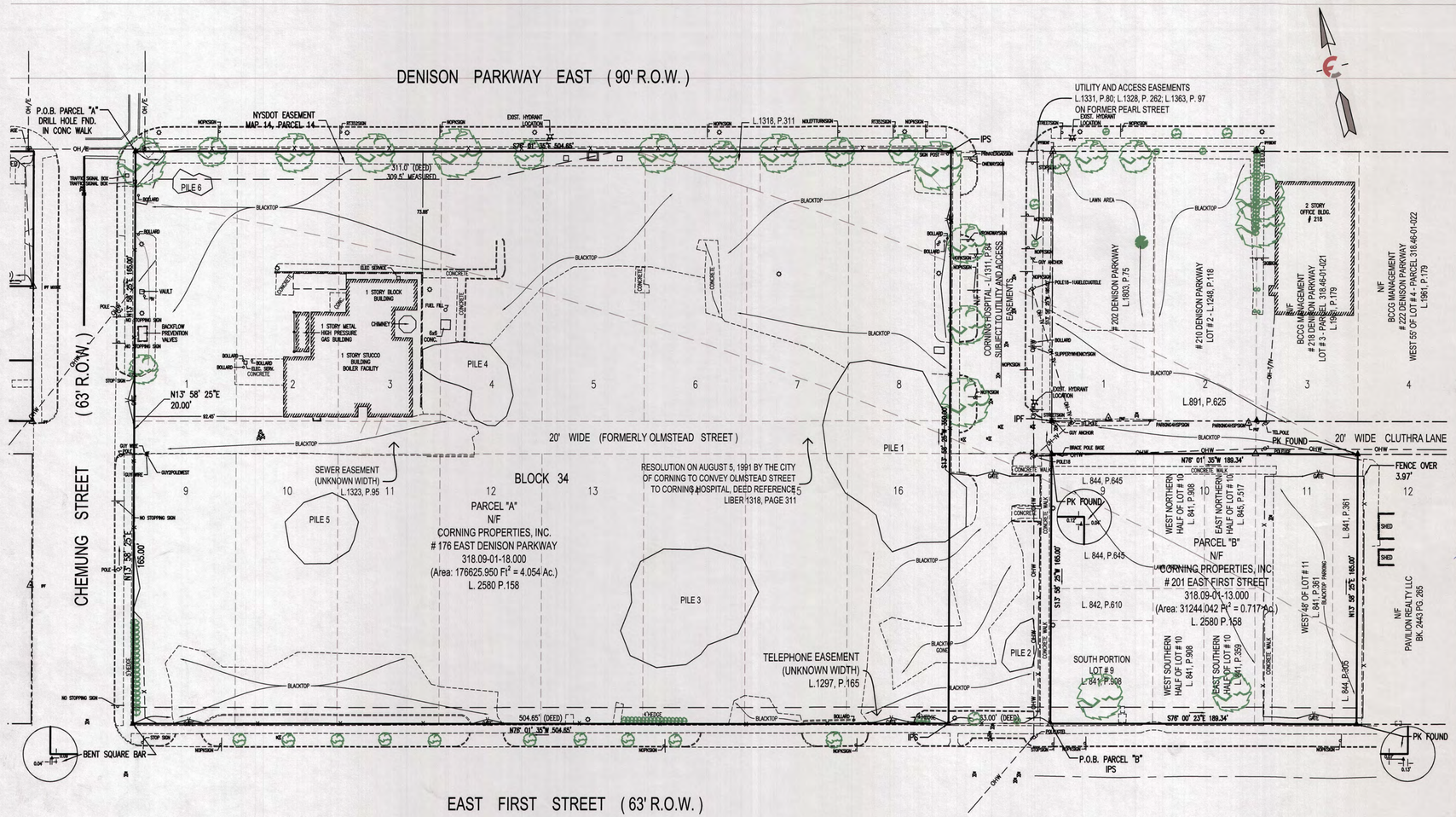
1. S 76° 00' 23" E ALONG THE NORTHERLY RIGHT OF WAY LINE OF EAST CHEMUNG STREET A DISTANCE OF 189.34 FEET TO A POINT; THENCE

2. N 13° 58' 25" E, A DISTANCE OF 165.00 FEET TO A PK NAIL FOUND LYING ON THE SOUTHERLY RIGHT OF WAY LINE OF CLUTHRA LANE; THENCE

3. N 76° 01' 35" W ALONG THE SOUTHERLY RIGHT OF WAY OF CLUTHRA LANE, A DISTANCE OF 189.34 FEET TO A POINT; THENCE

4. S 13° 58 25" W, A DISTANCE OF 165.00 FEET TO AN IRON PIN SET AND THE PLACE OF BEGINNING AND CONTAINING 0.717 ACRES.

"THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV".




ENVIRONMENTAL EASEMENT AREA DESCRIPTION:

PARCEL "A"

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF CORNING, COUNTY OF STEUBEN AND STATE OF NEW YORK, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT A DRILL HOLE IN CONCRETE MARKING THE INTERSECTION OF THE SOUTHERLY RIGHT OF WAY LINE OF DENISON PARKWAY EAST WITH THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET; THENCE

1. S 76° 01' 35" E, ALONG THE SOUTHERLY RIGHT OF WAY LINE OF DENISON PARKWAY EAST, A DISTANCE OF 504.65 FEET TO A POINT; THENCE
2. S 13° 58' 25" W, A DISTANCE OF 350.00 FEET TO A POINT LYING ON THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET; THENCE
3. N 76° 01' 35" W, A DISTANCE OF 504.65 FEET TO A POINT LYING AT RIGHT OF WAY LINE AT THE INTERSECTION OF EAST FIRST STREET, AND CHEMUNG STREET; THENCE
4. N 13° 58' 25" E, A DISTANCE 165.00 FEET ALONG THE EASTERLY RIGHT OF WAY OF CHEMUNG STREET TO A POINT; THENCE
5. N 13° 58' 25" E ALONG THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET A DISTANCE OF 20.00 FEET TO A POINT; THENCE
6. N 13° 58' 25" E, ALONG THE EASTERLY RIGHT OF WAY LINE OF CHEMUNG STREET A DISTANCE OF 165.00 FEET TO A POINT AND THE PLACE OF BEGINNING AND CONTAINING 4.054 ACRES.

PARCEL "B"

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF CORNING, COUNTY OF STEUBEN AND STATE OF NEW YORK, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT AN IRON PIN SET ON THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET. THE POINT BEING 567.65 FEET FROM THE INTERSECTION OF CHEMUNG STREET AND EAST FIRST STREET MEASURED ALONG THE NORTHERLY RIGHT OF WAY LINE OF EAST FIRST STREET; THENCE

1. S 76° 00' 23" E ALONG THE NORTHERLY RIGHT OF WAY LINE OF EAST CHEMUNG STREET A DISTANCE OF 189.34 FEET TO A POINT; THENCE
2. N 13° 58' 25" E, A DISTANCE OF 165.00 FEET TO A PK NAIL FOUND LYING ON THE SOUTHERLY RIGHT OF WAY LINE OF CLUTHRA LANE; THENCE
3. N 76° 01' 35" W ALONG THE SOUTHERLY RIGHT OF WAY OF CLUTHRA LANE, A DISTANCE OF 189.34 FEET TO A POINT; THENCE
4. S 13° 58 25" W, A DISTANCE OF 165.00 FEET TO AN IRON PIN SET AND THE PLACE OF BEGINNING AND CONTAINING 0.717 ACRES.

LEGEND

- IRON PIN FOUND
- DEED LINE
- ADJACENT PROPERTY LINES
- FORMER LOT LINES
- FORMER RAILROAD ROW
- SETBACK LINE
- FENCE LINE
- EASEMENT LINE
- OVERHEAD WIRE
- ELECTRIC LINE
- UNDERGROUND TELEPHONE
- GAS LINE
- STORM SEWER
- SANITARY SEWER
- WATER VALVE
- GAS VALVE
- CATCH BASIN
- STORM MANHOLE
- SANITARY MANHOLE
- LIGHT POLE
- UTILITY POLE
- EDGE OF ROAD
- TREE

CERTIFICATIONS ON THIS BOUNDARY SURVEY MAP SIGNIFY THAT THE MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC. THE CERTIFICATION IS LIMITED TO PERSONS FOR WHOM THE BOUNDARY SURVEY MAP IS PREPARED, TO THE TITLE COMPANY, TO THE GOVERNMENTAL AGENCY, AND TO THE LENDING INSTITUTION LISTED ON THIS BOUNDARY SURVEY MAP.

SURVEY FIELD WORK COMPLETED ON MAY 1, 2017

PILES OF CRUSHED BRICK AND CONCRETE WERE ONSITE AT THE TIME OF SURVEY

NOTE:

SUBJECT TO EASEMENTS AND RIGHT-OF-WAYS OF RECORD AND OR INFACT WHETHER SHOWN OR NOT

THE UNDERGROUND UTILITIES SHOWN ARE BASED ON AVAILABLE FIELD LOCATIONS AND OR EXISTING RECORD INFORMATION PROVIDED BY THE OWNER AND OTHERS. THE LOCATION AND EXTENT OF ALL UTILITIES MUST BE CONSIDERED APPROXIMATE AND INCOMPLETE.

NO EASEMENTS WERE PROVIDED IN THE ABSTRACTS OF TITLE OR TITLE COMMITMENT RELATED TO THE NATURAL GAS FACILITIES LOCATED ON THE CORNING HOSPITAL PROPERTY. THE EXTENT AND IMPACT OF THE NATURAL GAS FACILITIES ON THE RIGHTS AND TITLE OF THE PROPERTY OF THE CORNING HOSPITAL ARE UNKNOWN.

0 12 24 Meters

0 40' 80'

PLAN REFERENCES:
BEARINGS ARE BASED ON NAD 83 NEW YORK STATE PLANE COORDINATES, CENTRAL ZONE, US FOOT AS ESTABLISHED BY GPS OBSERVATION.

Note :
Utility information has been plotted from available sources and their locations and size should be considered approximate only. The contractor is responsible for determining exact utility locations, sizes, and elevations prior to commencing construction. If uncharted or misplotted utilities are encountered, the contractor is required to notify the owner immediately.

New York State law requires excavators to contact the one-call notification system prior to digging to prevent damage to buried facilities.
IT'S THE LAW!
Call three days before you dig!
1-800-962-7962
Dig Safely New York
(non-members must be contacted separately)

**PRELIMINARY PRINT**



| No. | Rev. Date | Revision Description |
|---|---|---|
| 1. | | |

If It A Violation Of The New York Education Law, Article 145 Section 7209, For Any Person, Unless He Is Acting Under The Direction Of A Licensed Professional Engineer Or Land Surveyor To Alter An Item In Any Way. If An Item Bearing The Seal Of An Engineer Or Land Surveyor Is Altered, The Altering Engineer Or Land Surveyor Shall Affix To The Item His Seal And The Notation "Altered By" Followed By His Signature And The Date Of Such Alteration, And A Specific Description Of The Alteration.

STATE OF NEW YORK — DANIEL L. WALTER — No. 049923-1 — LICENSED LAND SURVEYOR

# OLD CORNING HOSPITAL
## ENVIRONMENTAL EASEMENT SURVEY
176 DENISON PARKWAY, CITY OF CORNING, STEUBEN COUNTY, NEW YORK

FAGAN ENGINEERS & LAND SURVEYORS PC
113 East Chemung Place
Elmira N.Y. 14904
Phone (607) 734-2165
Fax (607) 734-2169
www.FaganEngineers.com

| | |
|---|---|
| Scale: | 1" = 40' 11x17 Prints are 1/2 Size |
| Date: | April 12, 2017 |
| Design By: | - |
| Drawn By: | C.E.L. |
| Checked By: | D.L.W. |
| Project No.: | 2016.005 |
| Drawing Name: | 16005-alta.dwg |

**DEC EASEMENT MAP**

**1**

# APPENDIX E – FIELD LOGS

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-01**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 924.685 (USft)
START DATE: 4/27/2015 END DATE 4/27/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | 2.5' | Brown coarse SAND and fine to medium GRAVEL, moist, no odors | 0 | |
| | | | 3.5' | Black ASH (fill) and SAND, some fine to medium GRAVEL, moist, no odors | | |
| 4 | 4-8 | 5% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 5% | 8' | …coarse GRAVEL 8-12' | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | <5% | 12' | Brown coarse SAND and fine to medium GRAVEL, wet, no odors | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 30% | 16' | Brown coarse SAND and medium to coarse GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-01, 5' screen |
| | | | 16 | 20 | 12 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-01**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-02**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 924.76 (USft) DATUM:
START DATE: 4/27/2015 END DATE 4/27/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 25% | | Brown/grey coarse SAND and GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | no recovery | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10.6 | 50% | 8' | Brown fine SAND (possible tank fill), moist, no odors | 0 | |
| 10 | 10.6-11.6 | 50% | 10' | Brown coarse SAND and SILT, some medium to coarse GRAVEL, moist, no odors | 0 | |
| 12 | | | | Refusal at 11.6' | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-02, 5' screen (DRY) |
| | | | 11 | 11.6 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-02**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-03**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 924.611 (USft)
START DATE: 4/27/2015 END DATE 4/27/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| | | | 1.5' | Light brown coarse SAND and medium to coarse GRAVEL, moist, no odors | | |
| 2 | | | | | 0 | |
| | | | 3' | Black ASH and CINDERS (fill), moist, no odors | | |
| 4 | 4-8 | 5% | | | 0 | |
| 6 | | | 6' | Light brown fine SAND, trace fine to medium GRAVEL, moist, no odors | 0 | |
| 8 | 8-12 | 5% | | | 0 | |
| 10 | | | | | 0 | |
| | | | 10.5' | Brown/grey fine SAND and medium to coarse GRAVEL, moist, no odors | | |
| 12 | | | | Refusal at 11.2' | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 11.2 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-03**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** SB-04
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 932.915 (USft)
START DATE: 4/27/2015 END DATE 4/27/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | 1.5' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Brown coarse SAND some medium to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | 2.5'<br>3' | Brown fine SAND and SILT, trace fine GRAVEL, moist, no odors | 0 | |
| 4 | 4-8 | 60% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 50% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 50% | 12' | Brown coarse SAND and medium GRAVEL, moist, no odors | 0 | |
| 14 | | | | Brown coarse SAND and medium GRAVEL, wet, no odors | 0 | |
| 16 | | | | Refusal at 16' | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 16 | 14 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-05**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 932.915 (USft)
START DATE: 4/27/2015 END DATE 4/27/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | 2' | Light brown SAND and SILT, some fine to medium GRAVEL, moist, no odors | 0 | |
| | | | 2.5' | Black/ dark brown coarse SAND, some fine to medium GRAVEL, moist, no odors | | |
| 4 | 4-8 | 60% | 4' | Grey medium GRAVEL, moist, no odors | 0 | |
| | | | 5' | Brown SANDY SILT, trace fine GRAVEL, moist, no odors | | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 40% | | | 0 | |
| 10 | | | 10' | …grey rock fragments | 0 | |
| 12 | 12-16 | 40% | | | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 5% | 16' | Brown medium to coarse GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | 20-24 | <5% | 20' | Brown coarse SAND and medium GRAVEL,wet, no odors | 0 | |
| 22 | | | | | 0 | |
| 24 | | | | End at 24' | 0 | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-03, 10' screen |
| | | | 17.5 | 24 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-05**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-06**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 925.665 (USft) DATUM:
START DATE: 4/27/2015 END DATE 4/27/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | 1' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Brown SAND and fine to medium GRAVEL, moist, no odors | 0 | |
| 2 | | | 3.5' | Brown SAND and SILT, trace fine GRAVEL, moist, no odors | 0 | |
| 4 | 4-8 | 50% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 25% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 30% | 12' | Brown coarse SAND and coarse GRAVEL, moist, no odors | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 30% | | …wet | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-06**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** SB-07
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 925.855 (USft)
START DATE: 4/27/2015 END DATE 4/27/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | 2' | Brown SAND some medium to coarse GRAVEL, moist, no odors | 0 | |
| 4 | 4-8 | 5% | 4' | Brown SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 15% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 10% | | | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 30% | 16' | …wet | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-04, 10' screen |
| | | | 19 | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** SB-07

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-08**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.847 (USft)
START DATE: 4/28/2015 END DATE: 4/28/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | 1' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Grey medium to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | 4' | Black/brown SAND and ASH (fill), moist, no odors | 0 | |
| | | | 5' | Brown coarse SAND, some medium GRAVEL, moist, no odors | | |
| 6 | | | | | 0 | |
| | | | | | 0 | |
| 8 | | | | Refusal at 8' | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 8 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-08**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-08A**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.745 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | 1.5' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Dark brown coarse SAND, some medium to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | 4' | Brown coarse SAND some medium GRAVEL, moist, no odors | 0 | |
| | | | 5' | Brown/grey coarse SAND and fine to coarse GRAVEL, moist, no odors | | |
| 6 | | | | | 0 | |
| 8 | 8-10.4 | 50% | | | 0 | |
| 10 | | | | | 0 | |
| | | | | Refusal at 10.4' | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10.4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-09**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.194 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | 2' | Brown/grey SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 4 | 4-8 | 20% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10.4 | 20% | | | 0 | |
| 10 | | | | | 0 | |
| | | | | Refusal at 10.4' | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10.4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-09**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-10**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.194 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| | | | 1.5' | Brown/grey SAND and medium to coarse GRAVEL, moist, no odors | | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 40% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10.4 | 50% | | | 0 | |
| 10 | | | | Refusal at 10.8' | 0 | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10.8 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-10**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-11**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.632 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | | Brown SAND and fine to medium GRAVEL, moist, no odors | 0 | |
| 2 | | | 2' | Brown SANDY SILT, trace fine GRAVEL, moist, no odors | 0 | |
| 4 | 4-8 | 40% | 4' | Brown SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10.4 | 50% | | | 0 | |
| 10 | | | | | 0 | |
| | | | | Refusal at 11.1 | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 11.1 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-11**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-12**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.753 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| | | | 3.5' | Brown coarse SAND, trace medium GRAVEL, moist, no odrs | | |
| 4 | 4-8 | 50% | 4' | Brown coarse SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| | | | | | 0 | |
| 8 | 8-10.4 | 50% | | | | |
| | | | 9' | …grey rock fragments | | |
| 10 | | | | | 0 | |
| | | | | Refusal at 10.3' | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10.3 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-12**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-13**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 931.484 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 30% | 1' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Brown/grey coarse SAND and coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 50% | | Refusal at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 8 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-13A**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 931.404 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 30% | 1' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Brown/grey coarse SAND and coarse GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 50% | 8.5' | Brown medium GRAVEL and SAND, moist, no odors | 0 | |
| 10 | | | 11' | …wet<br>Brown coarse SAND, some medium GRAVEL, moist, no odors | 0 | |
| 12 | 12-13.7 | 50% | 13.5' | …grey rock fragments | 0 | |
| 14 | | | | Refusal at 13.7' | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 13.7 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-13A**

LABELLA Associates, P.C.

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**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-14**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.56 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| | | | 1' | Brown SAND some medium GRAVEL, moist, no odors | | |
| 2 | | | | | 0 | |
| | | | 2.5' | Brown SANDY SILT, trace fine to medium GRAVEL, moist, no odors | | |
| 4 | 4-8 | <5% | | …brick (fill) | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10 | 50% | | | 0 | |
| | | | 10' | …grey rock fragments | 0 | |
| 10 | | | | Refusal at 10' | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-14**

LABELLA Associates, P.C.

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**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-14A**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 132 Denison Parkway East
GROUND SURFACE ELEVATION 930.454 (USft) DATUM:
START DATE: 4/28/2015 END DATE: 4/28/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | 1' | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors<br>Dark brown SAND and SILT, some medium GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | <5% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-10 | 50% | 7' | Brown coarse SAND some coarse GRAVEL, moist, no odors | 0 | |
| 10 | | | 10' | Refusal at 10' | 0 | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 10 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-14A**

LABELLA Associates, P.C.

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**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-15**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 210 Denison Parkway East
GROUND SURFACE ELEVATION 925.545 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Grey/black ASPHALT and fine to coarse GRAVEL, moist, no odors | 0 | |
| | | | 1' | Black SANDY SILT, trace fine GRAVEL, moist, no odors | | |
| 2 | | | 2' | …trace GLASS and BRICK (fill) | 0 | |
| | | | 3.5' | Brown fine SAND trace fine GRAVEL, moist, no odors | | |
| 4 | 4-8 | 90% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 80% | 8' | Brown SAND and medium GRAVEL, moist, no odors | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-14.7 | 80% | | | 0 | |
| | | | 13' | Light brown/grey SAND and fine to medium GRAVEL, moist, no odors | | |
| 14 | | | | | 0 | |
| | | | | Refusal at 14.7' | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 14.7 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-15**

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-16**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 202 Denison Parkway East
GROUND SURFACE ELEVATION 925.825 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 20% | | Brown SAND and SILT, trace vegetation, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| | | | 3' | Brown fine SAND trace fine GRAVEL, moist, no odors | | |
| 4 | 4-8 | 60% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 40% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 30% | 12' | Brown coarse SAND and medium GRAVEL, moist, no odors | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 30% | 16' | Brown fine to medium GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-08, 10' screen |
| | | | 19 | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-16**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-17**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 201 East First Street
GROUND SURFACE ELEVATION 925.065 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Brown SAND and SILT, trace vegetation, moist, no odors | 0 | |
| 2 | | | 2' | Brown coarse SAND and SILT, trace coarse GRAVEL, moist, no odors | 0 | |
| | | | 3' | ...Trace glass, some white ash, moist, no odors | | |
| | | | 3.5' | Brown SILT and SAND, trace fine GRAVEL, moist, no odors | | |
| 4 | 4-8 | 40% | | | 0 | |
| | | | 5' | Black ASH and CINDERS, trace GLASS (fill), moist, no odors | | |
| 6 | | | | | 0 | |
| | | | 7.5' | Brown SILT and SAND, some medium to coarse GRAVEL, moist, no odors | 0 | |
| 8 | 8-12 | 60% | | | | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 40% | | | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 40% | 16' | Brown medium to coarse GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-09, 10' screen |
| | | | 18 | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-17**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-18**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 201 East First Street
GROUND SURFACE ELEVATION 925.122 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 50% | | Brown SAND and SILT, trace vegetation, moist, no odors | 0 | |
| | | | 1' | Brown SANDY SILT, trace fine GRAVEL, moist, no odors | | |
| 2 | 2-4 | 50% | 2' | …grey rock fragments | 0 | Hit refusal at 2', redrill to 8' |
| | | | 3' | …trace brick (fill) | | |
| | | | 3.5' | Brown coarse SAND some fine to coarse GRAVEL, moist, no odors | | |
| 4 | 4-8 | 50% | | | 0 | |
| 6 | | | | | 0 | |
| | | | | | 0 | |
| 8 | | | | Refusal at 8' | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 8 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-18**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-19**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 201 East First Street
GROUND SURFACE ELEVATION 924.465 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 50% | | Brown SAND and SILT, trace vegetation, moist, no odors | | |
| | | | 1' | Black ASH and CINDERS (fill), moist, slight petroleum odor | 138 | |
| 2 | | | | | 20.8 | |
| | | | 3' | Brown/black SAND and SILT, trace fine GRAVEL, moist, slight petroleum odor | 18 | |
| 4 | 4-8 | 60% | 4' | Brown SILTY SAND, trace fine GRAVEL, moist, no odor | | |
| | | | 5' | …grey rock fragments | 0.5 | |
| 6 | | | 6' | Brown SILTY SAND, trace fine GRAVEL, moist, no odors | | |
| | | | | | 0.5 | |
| 8 | 8-12 | 60% | | | | |
| | | | | | 2 | |
| 10 | | | | | 2.5 | |
| | | | 11' | Brown SILTY SAND trace fine GRAVEL, moist, no odors | 0.3 | |
| 12 | 12-15.3 | 40% | | | | |
| 14 | | | | | 0.3 | |
| | 15.3-20 | 60% | | | | |
| 16 | | | | | 0 | |
| | | | 17' | Brown SAND and medium GRAVEL, moist, no odors | | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-10, 10' screen |
| | | | 19 | 20 | 17 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-19**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-20**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: Pearl Street (former)
GROUND SURFACE ELEVATION 923.486 (USft) DATUM:
START DATE: 4/29/2015 END DATE: 4/29/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Grey ASPHALT and coarse GRAVEL, moist, no odors | 0 | |
| | | | 1' | Brown SAND and SILT, some coarse GRAVEL, moist, no odors | | |
| 2 | | | | | 0 | |
| | | | 3' | Brown SAND and SILT trace medium GRAVEL, moist, no odors | | |
| 4 | 4-8 | 10% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 50% | | | 0 | |
| 10 | | | 10' | Brown SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 12 | 12-13.7 | 40% | | | 0 | |
| | | | | | 0 | |
| 14 | | | | Refusal at 13.7' | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 13.7 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-21**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East (interior)
GROUND SURFACE ELEVATION 923.051 (USft) DATUM:
START DATE: 4/30/2015 END DATE: 4/30/2015

TYPE OF DRILL RIG: Manual
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 60% | 0.5' | Grey coarse GRAVEL, moist, no odors<br>Brown SAND and SILT, some medium GRAVEL, moist, no odors | 0 | |
| 2 | 2-4 | 60% | | | 0 | |
| 4 | 4-8 | 100% | 4' | Brown SAND and SILT trace fine GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-9 | NA | | | 0 | macrocore liner stuck, cannot retrieve soil core |
| 10 | | | | Refusal at 9' | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 9 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-21**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-22**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 928.907 (USft) DATUM:
START DATE: 4/30/2015 END DATE: 4/30/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 30% | | Brown SAND and SILT, some medium GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | | | 0 | |
| 6 | | | 5' | Black ASH and CINDERS (fill) some SAND, trace white ASH, moist, no odors | 0 | |
| 8 | 8-12 | 40% | 8' | Brown SAND and SILT, some medium to coarse GRAVEL, moist, no odors | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 70% | | | 0 | |
| 14 | | | 14' | …grey rock fragments | 0 | |
| 16 | 16-20 | 40% | 16' | Brown SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | 20-24 | 50% | | …wet | 0 | |
| 22 | | | | | 0 | |
| 24 | | | | End at 24' | 0 | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 24 | 19 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-22**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-23**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 924.675 (USft) DATUM:
START DATE: 4/30/2015 END DATE: 4/30/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 60% | | Black ASPHALT, moist, no odors | 0 | |
| | | | 0.5' | Brown SANDY SILT, trace medium GRAVEL, moist, no odors | | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 90% | 4' | Brown SANDY SILT, trace fine GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 60% | | | 0 | |
| 10 | | | | | 0 | |
| | | | 11.5' | …grey rock fragments | | |
| 12 | 12-16 | 30% | | | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 40% | 16' | Brown fine SAND some medium GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-11, 10' screen |
| | | | 17 | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-23**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** SB-24
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 926.467 (USft)
START DATE: 4/30/2015 END DATE: 4/30/2015

DATUM:

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 30% | 1' | Black ASPHALT, moist, no odors<br>Brown SANDY SILT trace fine GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 70% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 40% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 0% | | | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 40% | 16' | Brown SAND and GRAVEL, wet, no odors | 0 | |
| 18 | | | | | 0 | |
| 20 | | | | End at 20' | 0 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** SB-24

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-25**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 144 East First Street
GROUND SURFACE ELEVATION 928.925 (USft) DATUM:
START DATE: 5/1/2015 END DATE: 5/1/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 30% | | Brown SAND and SILT, trace wood, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 70% | 4' | Brown SAND and medium to coarse GRAVEL, moist, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 40% | | | 0 | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 0% | | | | |
| 14 | | | | | | |
| 16 | 16-20 | 0% | | | | |
| 18 | | | | | | |
| 20 | 20-24 | 10% | | Brown GRAVEL, wet | 0 | |
| 22 | | | | | 0 | |
| 24 | | | | End at 24' | 0 | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-12, 10' screen |
| | | | 22 | 24 | 20 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-25**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-26**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Env. LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 928.36 (USft) DATUM:
START DATE: 5/1/2015 END DATE: 5/1/2015

TYPE OF DRILL RIG: Geoprobe 54LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | | Brown SAND and SILT, trace BRICK (fill), moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | 8-12 | 60% | | | 0 | |
| | | | 9' | Brown SAND and medium to coarse GRAVEL, moist, no odors | | |
| 10 | | | | | 0 | |
| 12 | 12-16 | 50% | 16' | Brown medium GRAVEL and SAND, wet, no odors | 0 | |
| 14 | | | | | 0 | |
| 16 | 16-20 | 50% | | | 0 | |
| 18 | | | | | 0 | |
| 20 | 20-24 | 50% | | | 0 | |
| 22 | | | 22' | Brown fine SAND, wet, no odors | 0 | |
| 24 | | | | End at 24' | 0 | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-13, 10' screen |
| | | | 22 | 24 | 16 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-26**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-29**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: TREC Environmental
DRILLER: C. Britton
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East (interior)
GROUND SURFACE ELEVATION 914.186 (USft) DATUM:
START DATE: 5/5/2015 END DATE: 5/5/2015

TYPE OF DRILL RIG: Geoprobe 420M
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 40% | | Concrete floor slab<br>Brown SAND and SILT, trace medium GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 30% | | | 0 | |
| 6 | | | | | 0 | |
| | | | | …wet | | |
| 8 | 8-12 | 60% | 8' | Brown coarse SAND some fine GRAVEL, wet, no odors | 0 | |
| 10 | | | 9.5' | Brown medium GRAVEL trace coarse SAND, wet, no odors | 0 | |
| 12 | | | | End at 12' | 0 | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 12 | 7 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-30**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: TREC Environmental
DRILLER: C. Britton
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East (interior)
GROUND SURFACE ELEVATION NA DATUM:
START DATE: 5/5/2015 END DATE: 5/5/2015

TYPE OF DRILL RIG: Geoprobe 420M
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-4 | 0% | | Concrete floor slab | 0 | |
| 2 | | | | | 0 | |
| 4 | 4-8 | 50% | 4' | Brown SAND and medium to coarse GRAVEL, wet, no odors | 0 | |
| 6 | | | | | 0 | |
| 8 | | | | End at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 8 | 4 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-30**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING: SB-31**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: TREC Environmental
DRILLER: C. Britton
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East (interior)
GROUND SURFACE ELEVATION 922.94 (USft) DATUM:
START DATE: 5/5/2015 END DATE: 5/5/2015

TYPE OF DRILL RIG: Geoprobe 420M
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 10% | | Concrete floor slab | 0 | |
| | | | 1.5' | Brown SAND some fine to medium GRAVEL, moist, no odors | | |
| 2 | 2-6 | 70% | | | 0 | |
| 4 | | | | | 0 | |
| | | | | Brown SANDY SILT trace fine GRAVEL, moist, no odors | | |
| 6 | 6-10 | 95% | 6' | | 0 | |
| 8 | | | | | 0 | |
| 10 | 10-14 | 60% | | | 0 | |
| 12 | | | 12' | Brown medium GRAVEL and SAND, wet, no odors | 0 | |
| 14 | 14-18 | 0% | | | 0 | |
| 16 | | | | | 0 | |
| | | | | | 0 | |
| 18 | | | | End at 18' | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW-07, 10' screen |
| | | | 18 | 18 | 12 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: SB-31**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-32**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: NYEG
DRILLER: B. Guyette
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 927.125 (USft)
START DATE: 5/5/2015 END DATE: 5/5/2015

DATUM:

TYPE OF DRILL RIG: Rotary drill rig
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: split spoon

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 10% | 1.5' | Black ASPHALT, moist, no odors<br>Brown/grey SAND and GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | | | | End at 4' | 0 | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-32**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-33**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: NYEG
DRILLER: B. Guyette
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 926.585(USft)
START DATE: 5/5/2015 END DATE: 5/5/2015

DATUM:

TYPE OF DRILL RIG: Rotary drill rig
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: split spoon

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 10% | 1.5' | Black ASPHALT, moist, no odors<br>Brown/grey SAND and GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | | | | End at 4' | 0 | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-34**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: NYEG
DRILLER: B. Guyette
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 925.376(USft) DATUM:
START DATE: 5/5/2015 END DATE: 5/5/2015

TYPE OF DRILL RIG: Rotary drill rig
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: split spoon

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 10% | 1.5' | Black ASPHALT, moist, no odors<br>Brown/grey SAND and GRAVEL, moist, no odors | 0 | |
| 2 | | | | | 0 | |
| 4 | | | | End at 4' | 0 | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**BORING:** **SB-35**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: NYEG
DRILLER: B. Guyette
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway East
GROUND SURFACE ELEVATION 925.106(USft) DATUM:
START DATE: 5/5/2015 END DATE: 5/5/2015

TYPE OF DRILL RIG: Rotary drill rig
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: split spoon

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2 | 10% | | Black ASPHALT, moist, no odors | 0 | |
| | | | 1.5' | Brown/grey SAND and GRAVEL, moist, no odors | | |
| 2 | | | 2' | Black/grey ASH and CINDERS (fill) | 0 | |
| | | | | | 0 | |
| 4 | | | | End at 4' | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 4 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-35**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-36
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 201 E. 1st St
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | 0 | Background Ppbrae = ~0.06-0.08 ppm |
| | | 0-4' 60% | | Cmf s.a and s.r GRAVEL and some dry cmf brown SAND | | |
| 2 | | | | | 0.085 | |
| | | | 3' | | | |
| 4 | | | 4' | Dry brown SILT, trace cmf SAND | 0.109 | |
| | | 4'-9' 95% | 5' | Dry brown SILT, trace cmf SAND and f GRAVEL | 0.151 | |
| 6 | | | | Dry cmf concrete and GRAVEL | 0.086 | |
| | | | 7' | | | |
| 8 | SB-36 @ 9'-12' | | | Moist brown mf SAND | 0.086 | |
| | | | 9' | | | |
| 10 | | 9'-14' 35% | 10' | Brown moist SILT, trace f GRAVEL | 0.082 | |
| 12 | | | | Moist brown and grey SAND, some cmf s.a. GRAVEL; concrete at 13' | 0.127 | |
| | | | 13' | | | |
| 14 | | | 14' | Moist brown mf SAND, trace m GRAVEL, no odors | 0.112 | |
| | | 14'-20' 40% | 15' | Moist cmf GRAVEL and some cmf brown SAND | 0.07 | |
| 16 | | | | | | |
| 18 | | | | Wet cm GRAVEL and little brown cmf SAND, no odors | 0.067 | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 15 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** SB-36

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-37
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 201 E. 1st St
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | 0 | Background Ppbrae = ~0.08 ppm |
| | | 0-4' 60% | | | | |
| 2 | | | | Dry cmf GRAVEL and some brown dry cmf SAND, little silt at 4', trace white ash | 0.101 | |
| 4 | | | 4' | | | |
| | | 4'-9' 60% | 5' | Dry brown/orange cmf SAND and cmf GRAVEL, no odors | 0.13 | |
| 6 | | | 6' | Dry white cm SAND and cmf GRAVEL, no odors | 0.114 | |
| 8 | | | | Moist brown mf SAND, no odors | 0.114 | |
| | | | 9' | | | |
| 10 | | 9'-14' 60% | | | | |
| 12 | | | | Saturated brown cmf SAND and cmf GRAVEL< trace SILT, no odors | 0.141 | |
| 14 | | | 14' | | | |
| | | 14'-20' 45% | | | | |
| 16 | | | | Wet, saturated, brown cmf SNAD and s.a. GRAVEL | 0.14 | |
| | | | 17' | | | |
| 18 | SB-37 @ 18-19' | | | Wet grey SAND and cmf GRAVEL, no odors, trace white ash | 0.345 | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 9 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-38
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 201 E. 1st St
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | 0-4' 80% | 0.5' | Topsoil | 0 | Background Ppbrae = ~0.08 ppm |
| 2 | | | | Dry brown cmf silty SAND and cmf s.a GRAVEL, no odors, some black staining @ 2' | 0.141 | |
| 4 | | | 4.5' | | | |
| 6 | | 4'-9' 80% | 6' | Dry crushed concrete/cinders | 0.184 | |
| 8 | | | | Black staining @ 6', no odors, moist brown silty SAND | 0.152 | |
| 10 | | 9'-14' 40% | 9.5' 10' | | | |
| 12 | SB-38 @ 12'-14' | | 13' | Moist brown silty SAND and little f GRAVEL, trace ash @ 13' | 0.145 | |
| 14 | | 14'-20' 70% | 14.5' | Moist silty SAND, brown with some black staining, no odors | 0.152 | |
| 16 | | | | Moist brown cmf SAND and sm s.a GRAVEL | 0.392 | |
| 18 | | | 18' | | | |
| | | | 19' | As above, little ash, no odor | 0.348 | |
| 20 | | | | Wet cmf GRAVEL and some brown SAND, trace orange SAND | 0.18 | |
| | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 19 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-39
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 201 E. 1st St
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | 0 | Background Ppbrae = ~0.08 ppm |
| | | 0-4' 40% | | Moist brown silty SAND and some cmf GRAVEL, no odors | | |
| 2 | | | | | 0.135 | |
| | SB-39 @ 3'-4' | | 3' | | | |
| 4 | | | 4' | Ash, some black silty SAND, some vf brick, no odors | 0.134 | |
| | | 4'-9' 80% | 5' | Crushed concrete, dry | | |
| 6 | | | | Moist silty SAND, black, no odors, trace vf GRAVEL, trace ash | 0.197 | |
| 8 | | | 8' | | | |
| | | | 9' | Moist brown silty SAND, no odors | 0.141 | |
| 10 | | 9'-14' 50% | 10' | Cmf GRAVEL, no odors, trace cm brown SAND | 1.21 | |
| 12 | | | | Moist brown silty SAND and some cmf GRAVEL, no odors | 0.369 | |
| | | | 13' | | | |
| 14 | | | 14' | Cinders and concrete | 0.167 | |
| | | 14'-20' 90% | | | | |
| 16 | | | | Dry cmf brown SAND and cmf s.a and s.r GRAVEL | 0.21 | |
| 18 | | | 18' | | | |
| | | | | Wet cmf GRAVEL and some brown cmf SAND | | |
| 20 | | | | | 0.205 | |
| | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 18 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-40
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles
BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016
DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore
DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | 0 | Background Ppbrae = ~0.08 ppm |
| | | 0-4' 50% | | Dry brown mf SAND and some cmf GRAVEL | 0.435 | |
| 2 | SB-40 @ 2.5'-3.5' | | 2' | | | |
| | | | 3.5' | Dry mf black SAND, some ash | 0.174 | |
| 4 | | | 4' | Moist brown dense silty SAND, no odors | 0.154 | |
| | | 4'-9' 50% | | | | |
| 6 | | | | As above and some cmf GRAVEL | 0.203 | |
| 8 | | | | | | |
| | | | 9' | | | |
| 10 | | 9'-14' 60% | 10' | Moist cmf GRAVEL and some brown SAND, no odors | 0.467 | |
| | | | | Wet cmf GRAVEL and brown SAND, no odors | 0.213 | |
| 12 | | | 12' | | | |
| | | | | Dry mf brown SAND and some cmf GRAVEL, concrete @ 13' | 0.253 | |
| 14 | | | 14' | | | |
| | | 14'-20' 80% | | | | |
| 16 | | | | | | |
| | | | | Saturated wet brown cmf GRAVEL and some cmf SAND | 0.103 | |
| 18 | | | | | | |
| 20 | | | | | | |
| | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 14 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-41**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | 0 | |
| | | 0-4' 50% | | | | |
| 2 | | | | Dry brown cmf SAND and some cmf GRAVEL, black sand @ 2.5-3', no odors | 0.64 | |
| | | | 3.5' | | | |
| 4 | | | 4' | Dry brown mf SAND | 0.434 | |
| | | 4'-9' 100% | | Dark brown moist cmf SAND, trace cmf GRAVEL, no odors | 0.054 | |
| 6 | | | 5.5' | | | |
| 8 | | | | Moist densely packed brown clayey SILT, no odors | 0.043 | |
| 10 | | 9'-14' 40% | 10' | | | |
| 12 | | | | Moist brown cmf SAND and cmf GRAVEL, trace SILT, no odors | 0.047 | |
| 14 | SB-41 @ 14'-15' | | 14' | | | |
| | | 14'-20' 60% | | | | |
| 16 | | | | Brown SILT and some cmf SAND, some cmf GRAVEL, concrete @ 19', no odors | 0.032 | |
| 18 | | | | | | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | NA | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-42
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | 0 | |
| | | 0-4' 50% | | | | |
| 2 | | | | Moist dark brown mf SAND, trace SILT, no odors | 0.073 | |
| 4 | | | 4.5' | | | |
| | SB-42 @ 3'-9' MS/MSD Blind Dupe | 4'-9' 100% | | | | |
| 6 | | | | Moist densely packed brown clayey SILT, no odors | 0.065 | |
| 8 | | | 8.5' | | | |
| | | | 9' | Black moist silty SAND, no odors | 0.043 | |
| 10 | | 9'-14' 40% | | | | |
| 12 | | | | Dry brown cmf SAND, some cmf s.a. GRAVEL, no odors | 0.088 | |
| 14 | | | 14' | | | |
| | | 14'-20' 60% | | Dry brown cmf SAND and some cmf GRAVEL | 0.003 | |
| 16 | | | 16' | | | |
| | | | 17' | Concrete | 0 | |
| 18 | | | | Wet brown cmf SAND and some cmf GRAVEL | 0 | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 17 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-43
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | 0 | |
| | | 0-4' 70% | | Black dry cmf SAND and some cmf GRAVEL, trace brick | 0 | |
| 2 | | | 2.5' | | | |
| | | | | Dry brown cmf SAND and some cmf GRAVEL/concrete, no odors | 0.005 | |
| 4 | | | 4' | | | |
| | | 4'-9' 50% | | Moist to wet brown silty SAND, dense, some black staining @ 4', no odors | 0 | |
| 6 | | | | | | |
| 8 | | | | | | |
| | | | 9' | | | |
| 10 | | 9'-14' 30% | 10' | Wet as above | 0 | |
| | | | | Wet brown silty SAND and some mf black GRAVEL, no odors | 0 | |
| 12 | | | | | | |
| | | | 13' | | | |
| 14 | | | 14' | Concrete | 0 | |
| | | 14'-20' 40% | | | | |
| 16 | SB-43 @ 16'-17' | | | Wet cm brown SAND and some cmf GRAVEL, no odors | 0.055 | |
| 18 | | | | | | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 9 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-44
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | 0 | |
| | | 0-4' 40% | | Dry cmf brown SAND and some cmf GRAVEL | 0 | |
| 2 | | | | | | |
| | | | 3' | Dry dark brown silty SAND, no odors | 0 | |
| 4 | | | 4' | | | |
| | | | 4.5' | Moist dark brown with some black staining silty SAND | 0.35 | |
| | | 4'-9' 100% | | | | |
| 6 | | | | | | |
| 8 | | | | Brown to red densely packed silty SANd, moist, no odors, trace cm GRAVEL | 0.062 | |
| 10 | SB-44 @ 10'-11' | 9'-14' 30% | 10' | | | |
| | | | 11' | Ash black, trace c GRAVEL, and black mf dry SAND | 0.192 | |
| 12 | | | | Wet cmf GRAVEL and some cmf brown sAND, no odors, concrete @ 14' | 0.233 | |
| 14 | | | 14' | | | |
| | | | 14.5' | Moist brown silty SAND | 0.103 | |
| | | 14'-20' 50% | | | | |
| 16 | | | | Dry mf vf GRAVEL and brown mf SAND, no odors | 0.515 | |
| | | | 17' | | | |
| 18 | | | | Wet cmf GRAVEL and cmf brown SANd, no odors | 0.094 | |
| 20 | | | | | | |
| | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 11 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-45/MW-14**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: R. Yarger
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway E (interior)
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | | 10" concrete core | 0 | |
| | | 0-4' 5% | | Wet @ 0-8' | | |
| 2 | Not enough sample volume | | | Brown medium-coarse GRAVEL and coarse wet SAND | 0 | |
| 4 | | 4'-8' 5% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | | | | End at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW installed to 5-ft. bgs wth 5-ft. screen |
| | | | 5 | 8 | 0.5 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-46/MW-15**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: R. Yarger
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway E (interior)
GROUND SURFACE ELEVATION DATUM:
START DATE: 4/19/2016 END DATE: 4/19/2016

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | | 10" concrete core | 0 | |
| | | 0-4' 5% | | Wet @ 0-8' | | |
| 2 | SB-46 @ 0-8' | | | Brown medium-coarse GRAVEL and coarse wet SAND | 0 | |
| | | | | | 0 | |
| 4 | | 4'-8' 5% | | | 0 | |
| 6 | | | | | 0 | |
| | | | | | 0 | |
| 8 | | | | End at 8' | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW installed to 5-ft. bgs wth 5-ft. screen |
| | | | 5 | 8 | 0.5 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-47/MW-16**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: R. Yarger
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway E (interior)
GROUND SURFACE ELEVATION DATUM:
START DATE: 4/19/2016 END DATE: 4/19/2016

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | 0-1.5' | | No recovery<br>Refusal at 1.5' | 0 | |
| 2 | | | | | 0 | |
| 4 | | | | | 0 | |
| 6 | | | | | 0 | |
| 8 | | | | End at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | 1.5' screen; apparent rebar |
| | | | 1.5 | 8 | 0.5 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-48/MW-17**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: R. Yarger
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway E (interior)
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | 0-4' 5% | | Dark black/grey coarse SAND and med-coarse GRAVEL | 0 | |
| 2 | SB-48 @ 0-6' | | | | 0 | |
| 4 | | 4'-6' 5% | | As above, wet Refusal @ 6' | 0 | |
| 6 | | | | | 0 | |
| 8 | | | | End at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW installed to 5-ft. bgs wth 5-ft. screen |
| | | | 5 | 8 | 0.5 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-49/MW-18**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: R. Yarger
LABELLA REPRESENTATIVE: A. Aquilina

BORING LOCATION: 176 Denison Parkway E (interior)
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | 0-4' 5% | | Brown medium-coarse GRAVEL and coarse SAND, wet | 0 | |
| 2 | SB-46 @ 0-8' | | | | 0 | |
| 4 | | 4'-8' 5% | | | 0 | |
| 6 | | | | | 0 | |
| 8 | | | | End at 8' | 0 | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | MW installed to 5-ft. bgs wth 5-ft. screen |
| | | | 5 | 8 | 0.5 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING:** **SB-49/MW-18**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-50**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: M. Winderl Jr.
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 4/19/2016 END DATE: 4/19/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | 0 | |
| | | 0-4' 40% | | | | |
| 2 | | | | Dry brown mf SAND and little cmf GRAVEL, no odors | 0.431 | |
| 4 | | | 4' | | | |
| | | 4'-8' 80% | 4.5' | As above | 0.054 | |
| 6 | | | | Dry brown mf SAND, no odors | 0.1 | |
| 8 | | | 8' | | | |
| | | 8'-12' 30% | | | | |
| 10 | | | | Cmf brown moist SAND and cmf GRAVEL, trace white/clear glass @ 13' , no odors | 0.017 | |
| 12 | | | 12' | | | |
| | | 12'-16' 10% | | | | |
| 14 | | | | Wet cmf brown SAND, trace SILT, some cmf s.a GRAVEL, no odors | 0.083 | |
| 16 | | | 16' | | | |
| | | 16'-20' 20% | | | | |
| 18 | | | | Saturated wet cm s.r GRAVEL and some cm brown SAND, no odors | 0 | |
| 20 | | | | Ended boring at 20' | | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| | | | NA | 20 | 12 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-52/MW-21**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: Nothnagle
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 5/2/2016 END DATE: 5/2/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 54 | | 55-60' 40% | 55' | wet cm brown SAND | 0.172 | |
| 56 | | | 57' | s.r cm GRAVEL and little brown wet cmf SAND, no odors | 0.117 | |
| 58 | | | 60' | wet cm brown SAND and little f GRAVEL, no odors | 0.13 | |
| 60 | | 60-65' 40% | 61' | cmf s.r and s.a GRAVEL, little wet cm brown SAND, no odors | 0.164 | |
| 62 | Sample at 62'-67' | | 65' | wet brown cm SAND and some f GRAVEL | 0.214 | |
| 64 | | | 65.5' | cmf GRAVEL and little wet brown cm SAND, no odors | 0.207 | |
| 66 | | | 67.5' | wet cmf brown SAND and some cmf GRAVEL | 0.205 | |
| 68 | | | | | | |
| 70 | | | | Ended at 70' | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | 15' screen |
| | | | 70 | 70 | 20 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** **SB-53/MW-22**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: Nothnagle
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 5/3/2016 END DATE: 5/3/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-5' | brown moist cmf SAND and s.r GRAVEL, no odors | 0.725 | |
| 2 | | | | | | |
| 4 | | | 5-10' | As above | 0.6 | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | 10-15' | cmf s.r GRAVEL and little brown moist cmf SAND, no odors | 1.319 | |
| 12 | | | | | | |
| 14 | | | 15-20' | As above, groundwater at 18' | 0.835 | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | 20-25' | As above and trace SAND | 0.774 | |
| 25 | | | 25-30' | As above | 0.776 | |
| 35 | | | 35-40' | As above | 0.83 | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | 10' screen |
| | | | 40 | 40 | 18 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-54/MW-23
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: Nothnagle
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 5/4/2016 END DATE: 5/4/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-1' | Dey brown cmf SAND and some cmf GRAVEL, no odors | 2.135 | |
| | | | 1-5' | Moist black organics, cmf SAND and some cmf GRAVEL, no odors | 2.135 | |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | 6-10' | Brown moist cmf silty SAND and little cmf GRAVEL, trace cm brick | 1.637 | |
| 8 | | | | | | |
| 10 | | | 10-15' | Moist brown SILT, trace black silty SAND, little cmf GRAVEL, no odors, wet @ 13' | 1.02 | |
| 12 | | | | | | |
| 14 | | | | | | |
| | | | 15-20' | Trace cm brick and concrete, wet cmf brown SAND, trace SILT, trace black SAND, some cmf GRAVEL, no odors | 1.435 | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 25 | | | | | | |
| 35 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | 10' screen |
| | | | 20 | 20 | 13 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**BORING:** SB-55/MW-24
SHEET 1 OF 1
**JOB:** 2150606
CHKD BY: DPN

CONTRACTOR: LaBella LLC
DRILLER: Nothnagle
LABELLA REPRESENTATIVE: D. Miles

BORING LOCATION: 176 Denison Parkway E
GROUND SURFACE ELEVATION
START DATE: 5/3/2016 END DATE: 5/3/2016

DATUM:

TYPE OF DRILL RIG: Geoprobe
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Macrocore

DRIVE SAMPLER TYPE: Direct push
INSIDE DIAMETER: 2"
OTHER:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-4' | Brown cmf dry SAND, little cmf GRAVEL | | |
| 2 | | | | | | |
| 4 | | | 4-5' | Dark brown/black dry cmf SAND, little cmf GRAVEL, no odors | 3.405 | |
| | | | 5-10' | As above | 1.18 | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | 10-13' | As above and cmf GRAVEL | 1.21 | |
| 12 | | | | | | |
| | | | 13-15' | Cmf s.r GRAVEL and little brown cmf SAND, trace cm brick and concrete, no odors | 1.83 | |
| 14 | | | | | | |
| | | | 15-20' | As above | 1.18 | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | 20-25' | wet cm s.r GRAVEL, trace brown cmf SAND | 2.335 | |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | 10' screen |
| | | | 25 | 25 | 20 | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, D.P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**

Phase II Environmental Site Assessment

Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-56**

SHEET 1 OF 1

**JOB:** **2150606**

CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 10:15 TO 10:30
DATUM: NA
WEATHER: 85, humid

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | SB-56 grab sample taken at 5'-6' | 0' - 5' / 60% | 0-2" | 2" topsoil | 0 | |
| 2.5 | | | 2"-4' | silty SAND | | |
| 5 | | 5' - 10' / 50% | 4'-9' | White ash, fill matieral, cinder and clear glass and silty SAND | | |
| 7.5 | | | | | | |
| 10 | | 10' - 15' / 60% | 9'-10' | SILT with trace clay | | |
| 12.5 | | | | | | |
| 15 | | 15' - 20' / 60% | 10'-20' | silty SAND with trace gravel | | |
| 17.5 | | | | | | |
| 20 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | |
|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED |
| | | | | | |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

and = 35 - 50%
some = 20 - 35%
little = 10 - 20%
trace = 1 - 10%

C = Coarse
M = Medium
F = Fine
VF = Very Fine

BGS = Below Ground Surface
NA = Not Applicable
A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-56**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-57**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 10:35 TO 10:50
DATUM: NA
WEATHER: 85, humid

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-7" | topsoil | | |
| | | | 7'-2' | sandy SILT mixed with trace gravel | | |
| 2.5 | SB-57 grab sample taken @ 2'-3' | 0' - 5' / 60% | 2'-3' | Light and fluffy fly ash mixed with sandy SILT | | |
| 5 | | | | | | |
| | | | 3'-9.25' | Medium brown SILT with some clay | | |
| 7.5 | | 5' - 10' / 70% | | | | |
| | | | 9.25'-10' | Medium brown SILT with some clay mixed with gravel | | |
| 10 | | | 10'-11.6' | Darker brown sandy SILT mixed with C gravel. | 0 | |
| 12.5 | | 10' - 15' / 60% | 11.6'-15.0' | Sandy SILT and multicolored angular to subangular stones. | | |
| 15 | | | 15'-15.7' | Medium brown sandy SILT | | |
| 17.5 | | 15' - 18.3' / 60% | 15.7'-18.3' | Mostly stones with little sandy SILT | | |
| 20 | | | 18.3'-20' | Packed sandy SILT with trace stones emplaced | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | |
|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED |
| | | | | | |

NOTES:

GENERAL NOTES
1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

and = 35 - 50%
some = 20 - 35%
little = 10 - 20%
trace = 1 - 10%
C = Coarse
M = Medium
F = Fine
VF = Very Fine
BGS = Below Ground Surface
NA = Not Applicable
A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-57**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-58**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 11:00 TO 11:50
DATUM: NA
WEATHER: 85, humid

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-1.25' | Light brown SILT with some rouned stones and some .5" x.5" shards of blue and orange glass | 1 | |
| 2.5 | SB-58 VOC + grab samples taken | 0' - 1' / 20% | 1.25'-5' | NO DATA | | Refer to RI-TP-8 log for 1.25-6' |
| 5 | | | 5'-6.6' | Greyish brown SAND mixed with fill and 1" x 1" shards of clear glass and fill | | Fill noted down to 8' |
| | | | 6.6'-7.1' | SILT with traces of clay | | |
| 7.5 | SB-58 8'-10' grab sample taken | 5' - 10' / 50% | 7.1'-10' | Sandy SILT mixed with 1" x 1" rounded stones | | |
| 10 | | | 10'-10.3' | Loose sandy SILT and 1" x 1" rounded stones | | |
| | | | 10.3'-11.6' | Compacted medium brown SILT and sand with glass shards | | |
| | | | 11.6'-12.2' | SAND and some fill | | |
| 12.5 | | 10' - 15' / 77% | | | 0 | |
| | | | 12.2'-15' | Compacted SILT with rounded stones | | |
| 15 | | | 15'-16.5' | Medium brown sandy SILT. Moist. Trace glass. | | |
| | | | 16.5'-17' | 2" x 2" white/grey stones | | |
| | | | 17'-17.5' | Wet SILT with little clay | | |
| 17.5 | | 15' - 18.3' / 55% | | | | |
| | | | 17.5'-20' | Sandy SILT mixed with 1" x 1" stones. | | |
| 20 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | |
|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED |
| 7/25/2016 | 11:55 | 55 min | | | |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

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some = 20 - 35%
little = 10 - 20%
trace = 1 - 10%

C = Coarse
M = Medium
F = Fine
VF = Very Fine

BGS = Below Ground Surface
NA = Not Applicable
A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-58**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-59**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 12:30 TO 13:20
DATUM: NA
WEATHER: 85, humid

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | SB-59 (1.9'-2.4') taken | 0' - 5' / 53% | 0-1.9' | Topsoil with trace .5" x .5" rounded stones | 0 | |
| | | | 1.9'-2.4' | White - light orange fill | | |
| 2.5 | | | 2.4'-2.9' | Dry dark brown sandy SILT | | |
| | | | 2.9'-5.0' | Greyish white SILT with some 1" x 1" rounded stones | | |
| 5 | | 5' - 10' / 74% | 5.0'-5.25' | More greyish white SILT with some 1" x 1" rounded stones | | |
| 7.5 | | | 5.25'-10' | Medium brown compacted SILT with trace clay. Moist. | | |
| 10 | | 10' - 15' / 32% | 10'-10.8' | Greyish brown sandy SILT with rounded stones | | |
| | | | 10.8'-12.3' | Dark brown and red compacted SILT with trace clay. | | |
| 12.5 | | | 12.3'-15' | Greyish white sandy SILT and some flat stones. | | |
| 15 | | 15' - 18.3' /60% | 15'-17' | Dark brown and grey sandy SILT. Loose. | | |
| 17.5 | | | 17'-18.25' | Reddish brown SILT with trace clay and 1" x 1" stones. | | |
| | | | 18.25'-20' | Greyish white SILT with some 1" x 1" rounded stones | | |
| 20 | | | | | | |

WATER LEVEL DATA

| DATE | TIME | ELASPED TIME | DEPTH (FT) BOTTOM OF CASING | DEPTH (FT) BOTTOM OF BORING | DEPTH (FT) GROUNDWATER ENCOUNTERED |
|---|---|---|---|---|---|
| 7/25/2016 | 12:35 | 50min | | | |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

and = 35 - 50%
some = 20 - 35%
little = 10 - 20%
trace = 1 - 10%

C = Coarse
M = Medium
F = Fine
VF = Very Fine

BGS = Below Ground Surface
NA = Not Applicable
A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-59**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling
Client: Corning Hospital

**BORING:** **SB-60**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 13:30 TO 14:00
WEATHER: Humid, thunderstorms

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | SB-60 (1.3'2.7') taken | 0' - 5' / 45% | 0-1.3' | Topsoil with trace fragments of plastic | | |
| 2.5 | | | 1.3'-5.0' | Sandy SILT with 1" x 1" rounded stones. Material appears to be native with trace amount of fill,. | | |
| 5 | SB-60 (5'-6') taken | 5' - 10' / 80% | 5'-9' | Unifrom compacted dark red-brown SILT mixed with clay with some rounded stones. | 0 | |
| 7.5 | | | | | | |
| 10 | | | 9'-10' | Loose sandy SILT with 1.5" x 1" rounded stones. | | |
| 12.5 | | 10' - 15' / 60% | 10'-12.5' | Greyish white sandy SILT with 1" x 1" rounded stones. | | |
| | | | 12.5'-15' | Dark brown - dark red SILT with clay and 1" x 1" stones. | | |
| 15 | SB-60 (15'-16.1') VOC taken | 15' - 18.3' /45% | 15'-16.1' | Medium brown sandy SILT with .5" x .5" rounded stones | 5 | |
| 17.5 | | | 16.1'-17.2' | Greyish white sandy SILT with 1" x 1" rounded stones. | 0 | |
| | | | 17.2'-20' | Compacted sandy SILT with some 1" x 1" stones. | | |
| 20 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | |
|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED |
| 7/25/2016 | 12:35 | 50min | | | |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

and = 35 - 50%
some = 20 - 35%
little = 10 - 20%
trace = 1 - 10%

C = Coarse
M = Medium
F = Fine
VF = Very Fine

BGS = Below Ground Surface
NA = Not Applicable
A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-60**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-61**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 15:00 TO 15:30
WEATHER: Humid, thunderstorms

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | SB-61 (8.5'-10') taken | 0' - 5' / 50% | 0-2' | Loose topsoil with 1" x 1" rounded stones grading into sandy SILT | 0 | |
| 2.5 | | | 2'-5' | Sandy SILT with 1" x 1" rounded stones and fragments of glacial erratics | | |
| 5 | | 5' - 10' / 60% | 5'-6' | Loose grey- brown sandy SILT and some 1" x 1" stones | | |
| 7.5 | | | 6'-8.5' | 1" x 1" dark brown compacted clay | | |
| 10 | | | 8.5'-10' | Fill material | | |
| 12.5 | | 10' - 15' / 70% | 10'-13.5' | Dark grey sandy SILT with 1" x 1" rounded stones | | |
| 15 | | | 13.5'-15' | A mix of small (.5" x .5") and larger (1" x 1") stones | | |
| 17.5 | | 15' - 18.3' /45% | 15'-20' | AA with sandy SILT | | |
| 20 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | | NOTES: |
|---|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED | |
| 7/25/2016 | 15:30 | 30 min | | | | |

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

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little = 10 - 20%
trace = 1 - 10%

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A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-61**

LABELLA Associates, D.P.C.
300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST BORING LOG**
Phase II Environmental Site Assessment
Geoprobe® Overburden Soil Sampling

Client: Corning Hospital

**BORING:** **SB-62**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY:

CONTRACTOR: LaBella Environmental, LLC
DRILLER: M. Pepe
LABELLA REPRESENTATIVE: A. Martino, D. Noll

BORING LOCATION: Former Corning Hospital
GROUND SURFACE ELEVATION: NA
START DATE: 7/25/2016

TIME: 15:30 TO 16:00
WEATHER: 80, steady rain

TYPE OF DRILL RIG: Geoprobe® 54 LT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

| DEPTH (FT) | SAMPLE DATA: SAMPLE NO. AND DEPTH | SAMPLE DATA: SAMPLE RUN/RECOVERY | SAMPLE DATA: STRATA CHANGE | VISUAL MATERIALS CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0-2.5' | Topsoil grading into sandy SILT | | |
| 2.5 | SB-62 (2.5'-3.0') taken | 0' - 5' / 40% | 2.5'-5.8' | Fill material | | |
| 5 | SB-62 (5.5'-6.5') taken | | | | | |
| 7.5 | | 5' - 10' / 70% | 5.8'-10' | Compacted SILT with some medium brown clay | | |
| 10 | | | 10'-11.5' | Dark grey sandy SILT | 0 | |
| 12.5 | | 10' - 15' / 100% | 11.5'-12.5' | Medium brown compacted SILT | | |
| | | | 12.5'-15' | 1" x 1" rounded stones with some silt | | |
| 15 | | | | | | |
| 17.5 | | 15' - 18.3' /45% | 15'-20' | AA with dark brown silt | | |
| 20 | | | | | | |

| WATER LEVEL DATA | | | DEPTH (FT) | | |
|---|---|---|---|---|---|
| DATE | TIME | ELASPED TIME | BOTTOM OF CASING | BOTTOM OF BORING | GROUNDWATER ENCOUNTERED |
| 7/25/2016 | 16:00 | 30 min | | | |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) ABBREVIATIONS:

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trace = 1 - 10%

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A = Angular
R = Rounded
SA= Subangular
SR = Subrounded

**BORING:** **SB-62**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-01**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Asphalt 0-4"<br>Brown SAND and SILT, trace vegetation, moist, no odor | | |
| | | | 1.5 | …glass bottle | | Fill 1.5' |
| 2 | | | | | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 7' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 7 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-02**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Asphalt 0-4"<br>Brown SAND and SILT, trace vegetation, moist, no odor | | |
| 2 | | | 2.5' | ASH and CINDERS trace metal (wire), ceramic cups | 0 | |
| 4 | | | | | | Fill 2.5-6' |
| 6 | | | 6' | Native soils- brown SAND and SILT, moist, no odors | | |
| 8 | | | | End at 7' | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 7 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-02**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-03**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Asphalt 0-4"<br>Brown SAND and SILT, trace vegetation, moist, no odor | | |
| 2 | | | 2' | …white ASH | | Fill 2-3.5' |
| | | | 3' | …trace WOOD | 0 | |
| 4 | | | 3.5' | Native soils- brown SAND and SILT, moist, no odors | | |
| | | | | End at 5' | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 5 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-03**

LABELLA Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-04**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Asphalt 0-4"<br>Brown SAND and SILT, trace vegetation, moist, no odor | | |
| | | | 1' | Black ASH and CINDERS, moist, no odor | | |
| 2 | | | 2' | …wood, brick pavers, metal | 0 | Fill 1-4' |
| 4 | | | 4' | Concrete (apparent building foundation) | | |
| | | | | Refusal at 4' | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 4 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-04**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-05**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | | Asphalt 0-4" | | |
| | | | 0.3' | Brown SAND and SILT, moist, no odor | | |
| | | | 1' | Black ASH and CINDERS, moist, no odor | | |
| 2 | | | | | | Fill 1-5' |
| | | | 3' | …ceramic, brick, concrete, wood | 0 | |
| 4 | | | | | | |
| | | | 5' | Native soils- brown SAND and SILT, moist, no odor | | |
| 6 | | | | End at 5' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 5 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-05**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-06**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Brown SAND and SILT, moist, no odor | | |
| | | | 1' | …some glass (1-3'), rope, concrete | | |
| 2 | | | | | | |
| | | | 3' | …some white ash (3-4') | 0 | Fill 1-6' |
| 4 | | | | …trace brick (4-6') | | |
| 6 | | | | | | |
| | | | | End at 7' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 7 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-06**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York
Phase II Environmental Site Assessment

**TEST PIT: TP-07**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR J. Heerkens
LABELLA REPRESENTATIVE: A. Aquilina

LOCATION 176 Denison Parkway East
GROUND SURFACE ELEVATION NA
START DATE: 5/8/2015 END DATE: 5/8/2015

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.3' | Brown SAND and SILT, moist, no odor | | |
| 2 | | | 2.5' | Black ASH and CINDERS, some brick and concrete, moist, no odors …glass pieces, glass bottles, ceramic cups, fuze box, clay jug, wire (2.5-8') | 0 | Fill 2.5-8' |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | End at 9' | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 9 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: TP-07**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-1**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR Rob Yarger
LABELLA REPRESENTATIVE: D. Miles

LOCATION 176 Denison Parkway East, anomoly A
GROUND SURFACE ELEVATION NA
START DATE: 4/18/2016 END DATE: 4/18/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Asphalt | | |
| | | | 1' | L brown moist SAND and cmf s.r GRAVEL<br>Injection well located @ 1' bgs, filled with dirt, concrete around well | | |
| 2 | | | | | | |
| | | | 3' | Dark brown moist SAND and cmf s.r and s.a GRAVEL, trace c glass and c brick | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 4' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 4 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-1**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-2**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR Rob Yarger
LABELLA REPRESENTATIVE: D. Miles

LOCATION 201 E 1st St, anomoly B
GROUND SURFACE ELEVATION NA
START DATE: 4/18/2016 END DATE: 4/18/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil<br>Moist brown cmf SAND and some cmf GRAVEL, little m brick, trace asphalt<br>2 pipes encased in concrete @ 1.5' bgs; another pipe @ 3' bgs (metal) at E side of excavation<br>lots of asphalt/fill material- possible island and pipes redirected inward and filled<br>4" of slab concrete at 1.5' bgs on east side (foundation)<br>No odors | 0 | |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | End at 7' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 7 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-2**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-3**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR Rob Yarger
LABELLA REPRESENTATIVE: D. Miles

LOCATION 201 E 1st St, anomoly C
GROUND SURFACE ELEVATION NA
START DATE: 4/18/2016 END DATE: 4/18/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil<br>Moist cmf brown SAND and cmf s.r GRAVEL throughout<br>Rebar @ 2' bgs from N side<br>Trace brick<br>Concrete slab @ 5' bgs No odors | 0 | |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | End at 5' | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 5 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-3**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-4**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| | | | 1.5' | … with brick, cinders, black ash | | |
| 2 | | | 2' | brown sandy SILT | | |
| | | | | | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 3' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 3 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-4**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-5**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| | | | 1.5' | … with brick, cinders, black ash | | |
| 2 | | | 2' | brown sandy SILT | | |
| | | | | | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 3' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 3 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-5**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-6**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| | | | 1.5' | trace glass | | |
| 2 | | | 2' | brown sandy SILT | | |
| | | | | | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 3' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 3 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-6**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-7**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| | | | 1.5' | trace glass | | |
| 2 | | | 2' | brown sandy SILT | | |
| | | | | | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 3' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 3 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-7**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-8**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| | | | 1.5' | 2-3" asphalt layer | | |
| 2 | | | 2' | glass, ash, brick, fire brick | | |
| | | | 3' | glass - types include pyrex bottles, blue glass, orange, red, clear, cloudy, trace foundry type SAND | 0 | |
| 4 | | | | | | |
| 6 | | | | End at 6' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 6 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-8**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-9**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| 2 | | | | | | |
| | | | 3' | concrete footer on east and west sides | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 4' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 4 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-9**

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT:** **RI-TP-10**
SHEET 1 OF 1
**JOB:** **2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl Jr
LABELLA REPRESENTATIVE: D. Noll

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | | | 0.5' | Topsoil | | |
| | | | 1' | dry brown sandy SILT | | |
| 2 | | | | | | |
| | | | 2.5' | slight trace ash/SAND | 0 | |
| 4 | | | | | | |
| 6 | | | | | | |
| | | | | End at 3.5' | | |
| 8 | | | | | | |
| 10 | | | | | | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 3.5 | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT:** **RI-TP-10**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-1**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2" | | | Topsoil | 0 | |
| | 2"-12" | | | Brown cmf dry SAND and some s.a and s.r cm GRAVEL | 0 | |
| 2 | 12"-24" | | | As above, and some f. GRAVEL, no odors | 0 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-1**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-2**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2" | | | Topsoil | 0.003 | |
| | 2"-12" | | | Dry brown cmf SAND and some s.r cm GRAVEL | 0.036 | |
| 2 | 12"-24" | | | As above, but black SAND and little dry orange/brown SILT, no odors. Some cm brick at 2'. Rebar sticking through North end of TP. | 0.098 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-2**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-3**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 201 E 1st St
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE: SAMPLE DEPTH | SAMPLE: SAMPLE NO. AND RECOVERY | SAMPLE: STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2" | | | Topsoil | 0 | |
| | 2"-12" | | | Asphalt layer at south and parts of east and west end at 1', 2 pipes at west side, no odors, brown dry SAND, some s.r. cmf GRAVEL | 0.088 | |
| 2 | 12"-24" | | | ~1' chunk of green glass under asphalt, white ash, c. brick, trace cinders; dry brown cmf SAND and some cm s.r/s.a GRAVEL, no odors | 0.111 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-3**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-4**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 176 Denison Parkway E
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| 0 | 0-2" | | | Topsoil | 0.224 | |
| | 2"-12" | | | Moist brown cmf SAND, organics, little mf GRAVEL, no odors | 0.285 | |
| 2 | 12"-24" | | | Moist cmf brown SAND, some cmf GRAVEL, no odors | 0.124 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-4**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-5**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 176 Denison Parkway E
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE | | | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | | | |
| 0 | 0-2" | | | Topsoil | 0.171 | |
| | 2"-12" | | | Dry brown cmf SAND, some cmf GRAVEL, some roots and organics, no odors | 0.112 | |
| 2 | 12"-24" | | | Dry brown cmf SAND and some cmf GRAVEL, trace SILT, no odors | 0.140 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-5**

LABELLA Associates, P.C.

**300 STATE STREET, ROCHESTER, NY**
**ENVIRONMENTAL ENGINEERING CONSULTANTS**

**PROJECT**
Corning Hospital and Associated Parcels
Corning, New York

**TEST PIT: SS-6**
SHEET 1 OF 1
**JOB: 2150606**
CHKD BY: DPN

CONTRACTOR: LaBella Environmental LLC
OPERATOR M. Winderl
LABELLA REPRESENTATIVE: D. Miles

LOCATION 176 Denison Parkway E
GROUND SURFACE ELEVATION NA
START DATE: 4/20/2016 END DATE: 4/20/2016

DATUM:

| DEPTH | SAMPLE | | | VISUAL CLASSIFICATION | PID FIELD SCREEN (PPM) | REMARKS |
|---|---|---|---|---|---|---|
| | SAMPLE DEPTH | SAMPLE NO. AND RECOVERY | STRATA CHANGE | | | |
| 0 | 0-2" | | | Topsoil | 0.175 | |
| | 2"-12" | | | Dry mf brown SAND, little mf GRAVEL, no odors | 0.121 | |
| 2 | 12"-24" | | | Dry mf brown SAND, trace l. brown SILT, some cmf s.r and s.a GRAVEL, no odors | 0.044 | |

| DEPTH (FT) | |
|---|---|
| BOTTOM OF TEST PIT | GROUNDWATER ENCOUNTERED |
| 2' | NA |

NOTES:

GENERAL NOTES

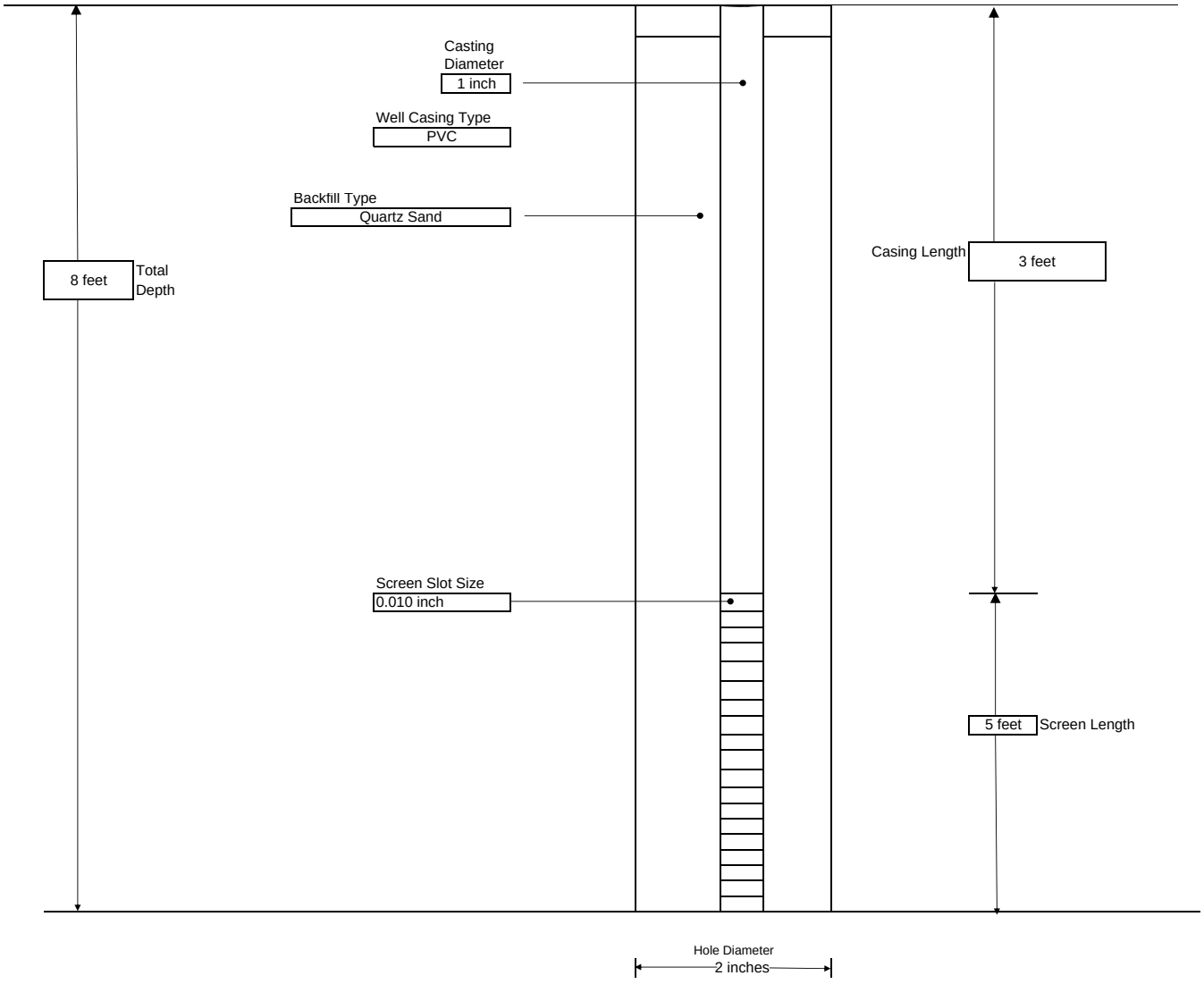
1) STRATIFICATION LINES REPRESENT APPROXMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**TEST PIT: SS-6**

| | | |
|---|---|---|
| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | **PROJECT**<br>Corning Hospital<br>Corning, New York | **MONITORING WELL: MW-14**<br>**SHEET** 1 OF 1<br>**JOB #** 2150606 |

| | | | |
|---|---|---|---|
| CONTRACTOR: | LaBella Env. LLC | BORING LOCATION: | SB-45 |
| DRILLER: | M. Winderl Jr | GROUND SURFACE ELEVATION: | |
| LABELLA REPRESENTATIVE: | A. Aquilina | START DATE: 4/19/2016 | END DATE: 4/19/2016 |

| | |
|---|---|
| TYPE OF DRILL RIG: | Geoprobe 54LT |
| AUGER SIZE AND TYPE: | NA |
| OVERBURDEN SAMPLING METHOD: | macrocore |
| ROCK DRILLING METHOD: | NA |

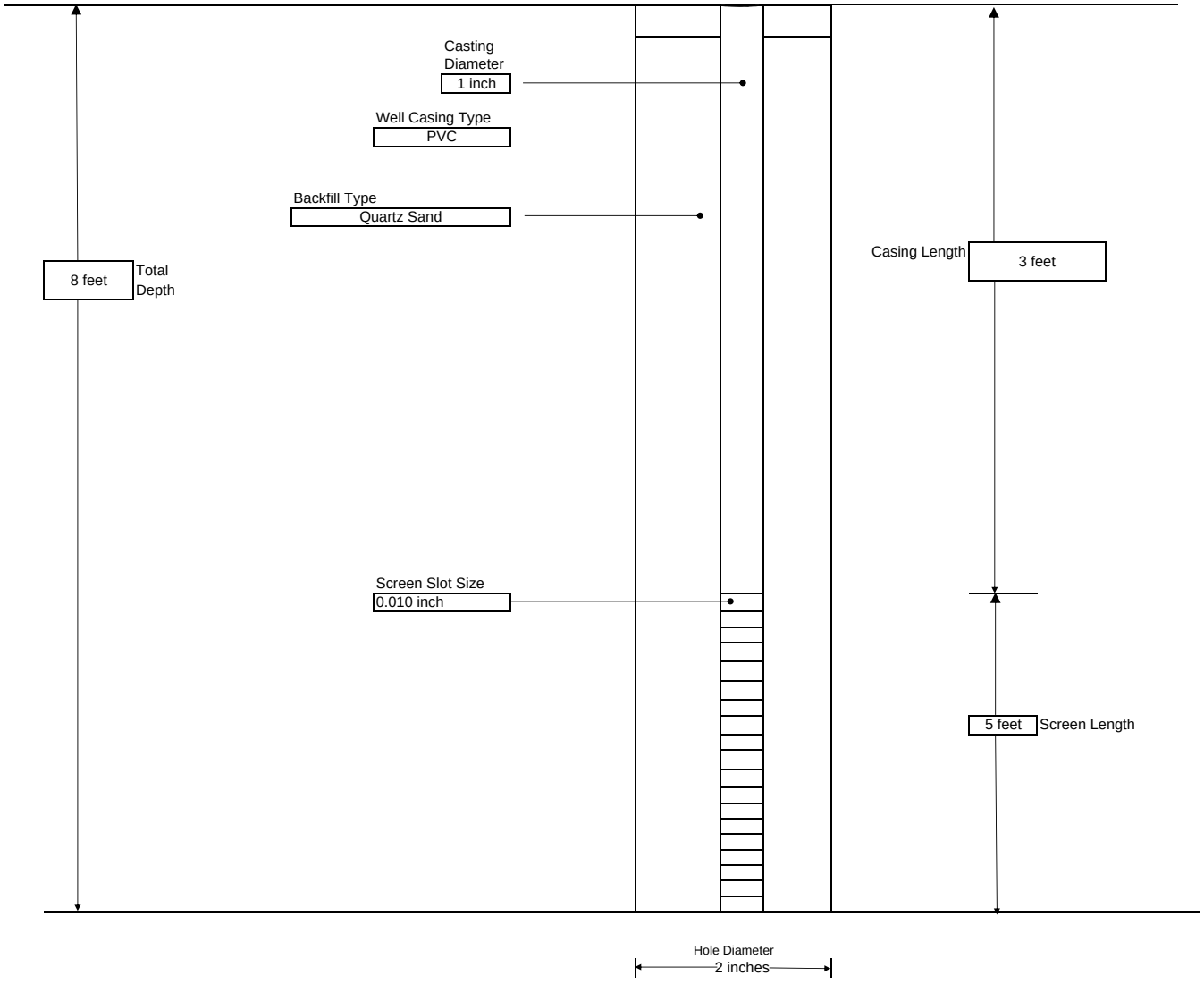



NOTE: NOT TO SCALE

| | | |
|---|---|---|
| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | **PROJECT**<br>Corning Hospital<br>Corning, New York | **MONITORING WELL: MW-15**<br>**SHEET** 1 OF 1<br>**JOB #** 2150606 |

| | | | |
|---|---|---|---|
| CONTRACTOR: | LaBella Env. LLC | BORING LOCATION: | SB-46 |
| DRILLER: | M. Winderl Jr | GROUND SURFACE ELEVATION: | |
| LABELLA REPRESENTATIVE: | A. Aquilina | START DATE: 4/19/2016 | END DATE: 4/19/2016 |

| | |
|---|---|
| TYPE OF DRILL RIG: | Geoprobe 54LT |
| AUGER SIZE AND TYPE: | NA |
| OVERBURDEN SAMPLING METHOD: | macrocore |
| ROCK DRILLING METHOD: | NA |

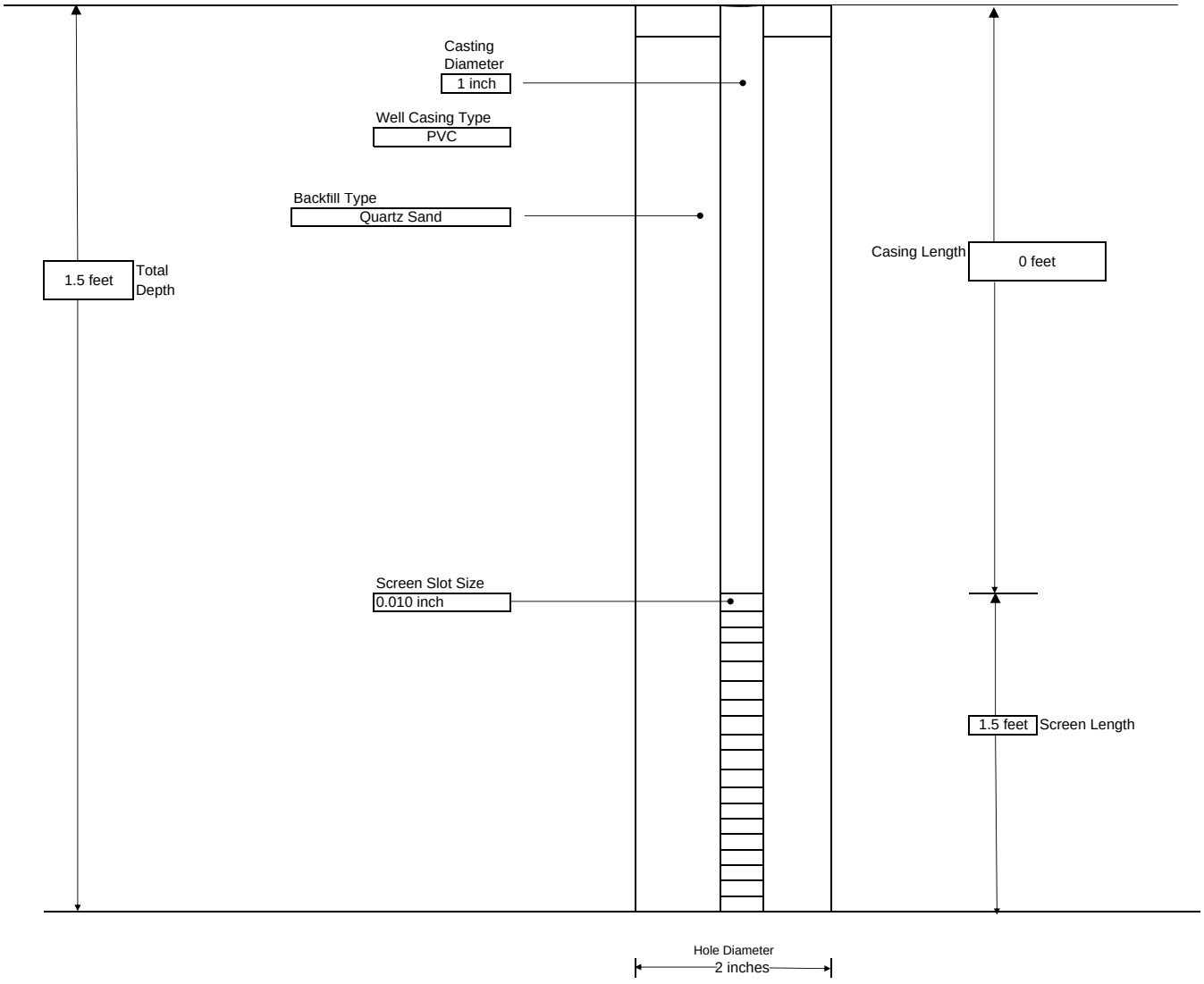



NOTE: NOT TO SCALE

| | | |
|---|---|---|
| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | **PROJECT**<br>Corning Hospital<br>Corning, New York | **MONITORING WELL: MW-16**<br>**SHEET** 1 OF 1<br>**JOB #** 2150606 |

| | | | |
|---|---|---|---|
| CONTRACTOR: | LaBella Env. LLC | BORING LOCATION: | SB-47 |
| DRILLER: | M. Winderl Jr | GROUND SURFACE ELEVATION: | |
| LABELLA REPRESENTATIVE: | A. Aquilina | START DATE: 4/19/2016 | END DATE: 4/19/2016 |

| | |
|---|---|
| TYPE OF DRILL RIG: | Geoprobe 54LT |
| AUGER SIZE AND TYPE: | NA |
| OVERBURDEN SAMPLING METHOD: | macrocore |
| ROCK DRILLING METHOD: | NA |

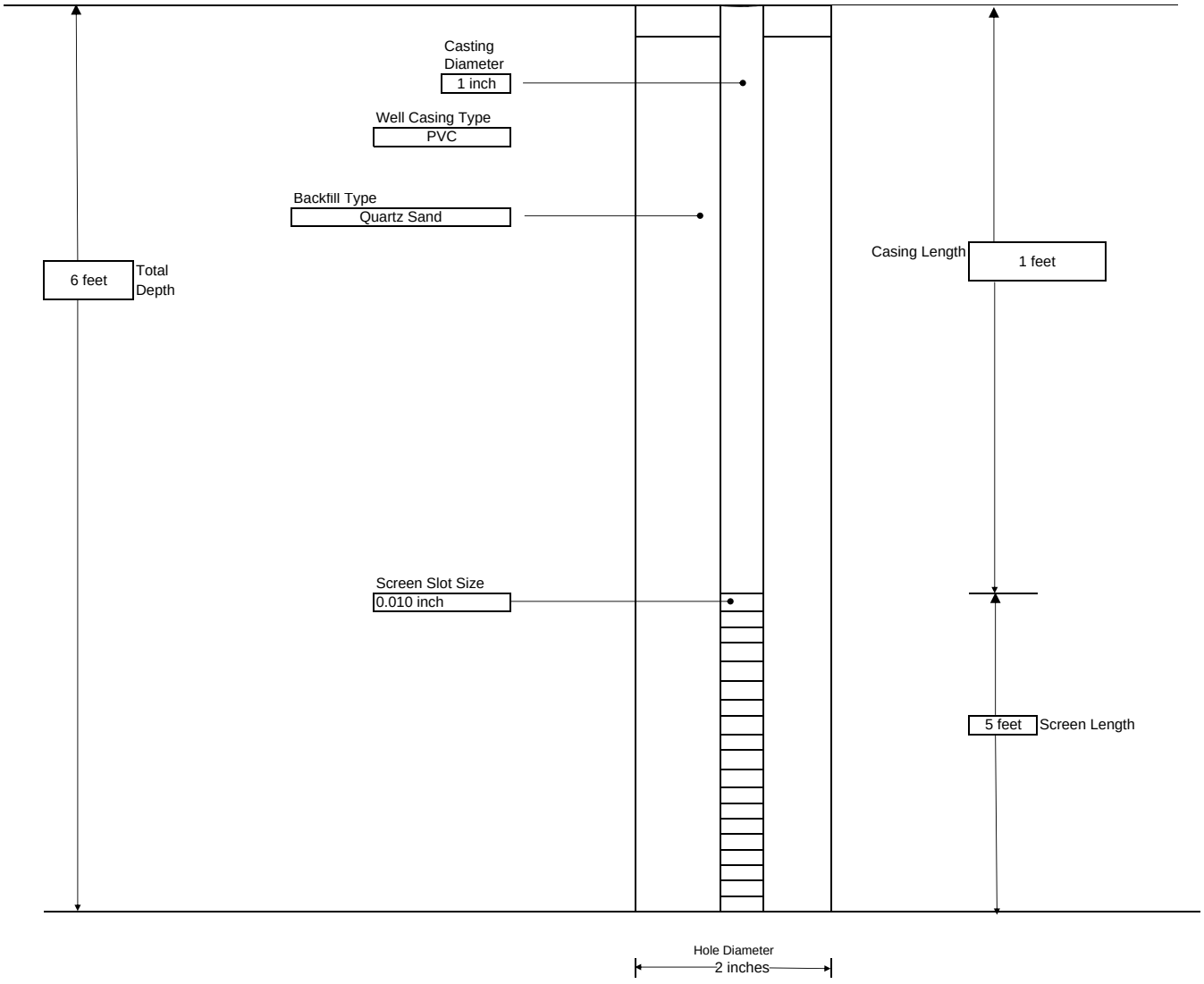



NOTE: NOT TO SCALE

| | | |
|---|---|---|
| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | **PROJECT**<br>Corning Hospital<br>Corning, New York | **MONITORING WELL: MW-17**<br>**SHEET** 1 OF 1<br>**JOB #** 2150606 |

| | | | |
|---|---|---|---|
| CONTRACTOR: | LaBella Env. LLC | BORING LOCATION: | SB-48 |
| DRILLER: | M. Winderl Jr | GROUND SURFACE ELEVATION: | |
| LABELLA REPRESENTATIVE: | A. Aquilina | START DATE: 4/19/2016 | END DATE: 4/19/2016 |

| | |
|---|---|
| TYPE OF DRILL RIG: | Geoprobe 54LT |
| AUGER SIZE AND TYPE: | NA |
| OVERBURDEN SAMPLING METHOD: | macrocore |
| ROCK DRILLING METHOD: | NA |




NOTE: NOT TO SCALE

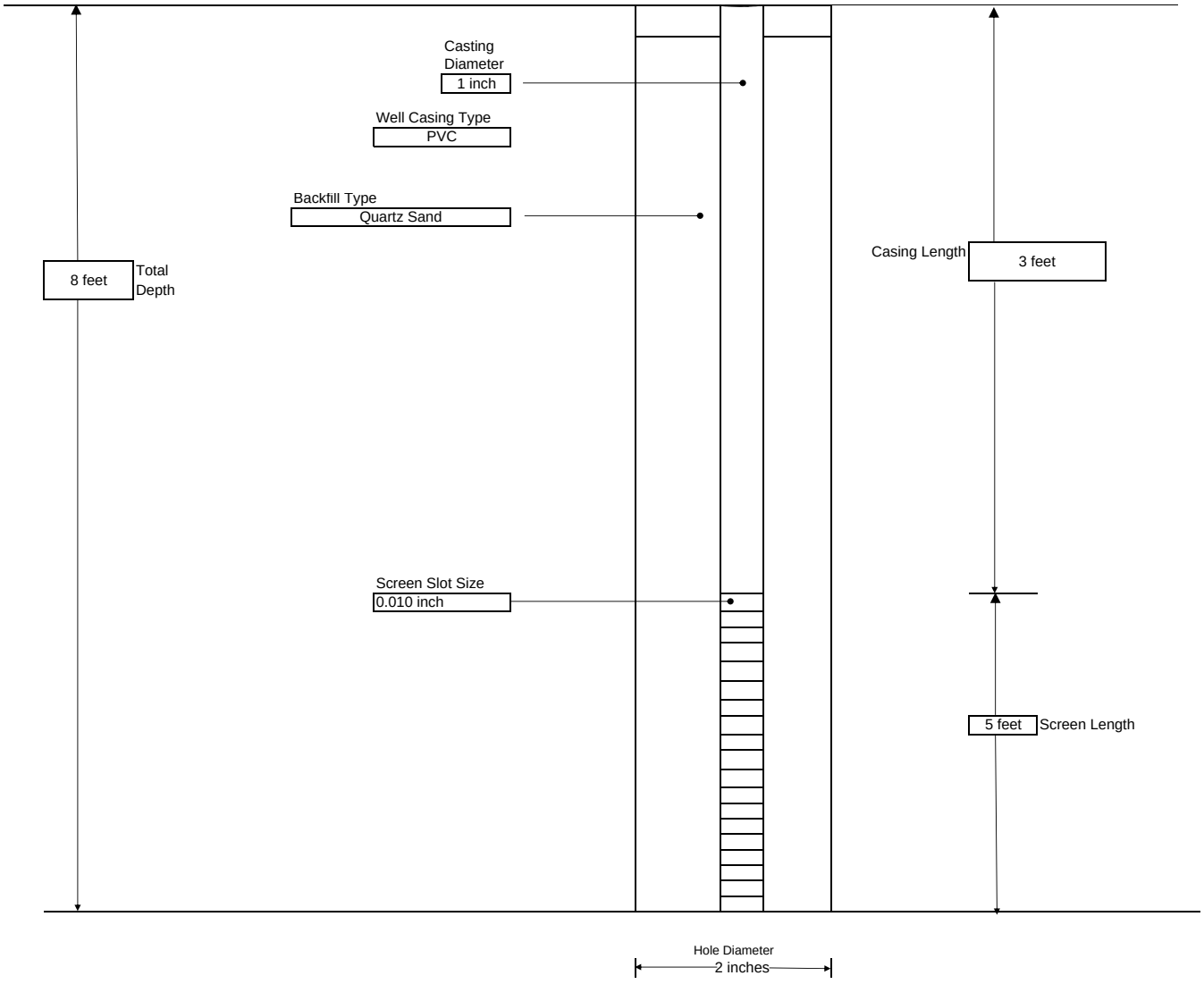
LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

**PROJECT**
Corning Hospital
Corning, New York

**MONITORING WELL: MW-18**
**SHEET** 1 OF 1
**JOB #** 2150606

| | | | | | |
|---|---|---|---|---|---|
| CONTRACTOR: | LaBella Env. LLC | BORING LOCATION: | SB-49 | | |
| DRILLER: | M. Winderl Jr | GROUND SURFACE ELEVATION: | | | |
| LABELLA REPRESENTATIVE: | A. Aquilina | START DATE: | 4/19/2016 | END DATE: | 4/19/2016 |

| | |
|---|---|
| TYPE OF DRILL RIG: | Geoprobe 54LT |
| AUGER SIZE AND TYPE: | NA |
| OVERBURDEN SAMPLING METHOD: | macrocore |
| ROCK DRILLING METHOD: | NA |



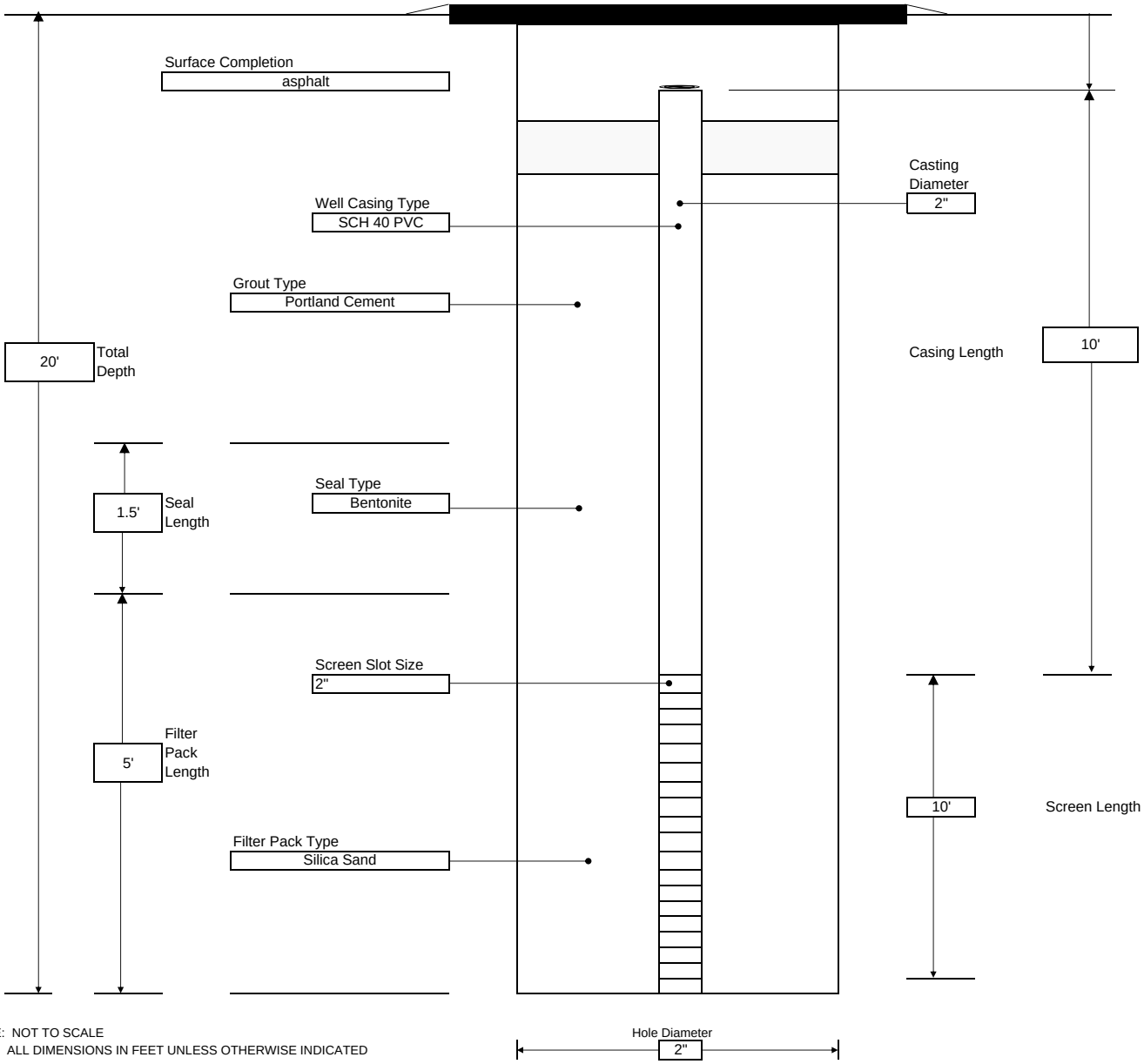

NOTE: NOT TO SCALE

| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | PROJECT<br>Corning Hospital<br>Corning, New York<br>BCP Site #C828101 | BORING: MW-19<br>SHEET 1 OF 1<br>JOB # 2150606<br>CHKD. BYD Noll |
|---|---|---|

CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles
BORING LOCATION: SB-51
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:
TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 4/20/2016 | 800 | 12' | 10' | 0.57' from lid to top of riser |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | PROJECT<br>Corning Hospital<br>Corning, New York<br>BCP Site #C828101 | BORING: MW-20<br>SHEET 1 OF 1<br>JOB # 2150606<br>CHKD. BYD Noll |
|---|---|---|

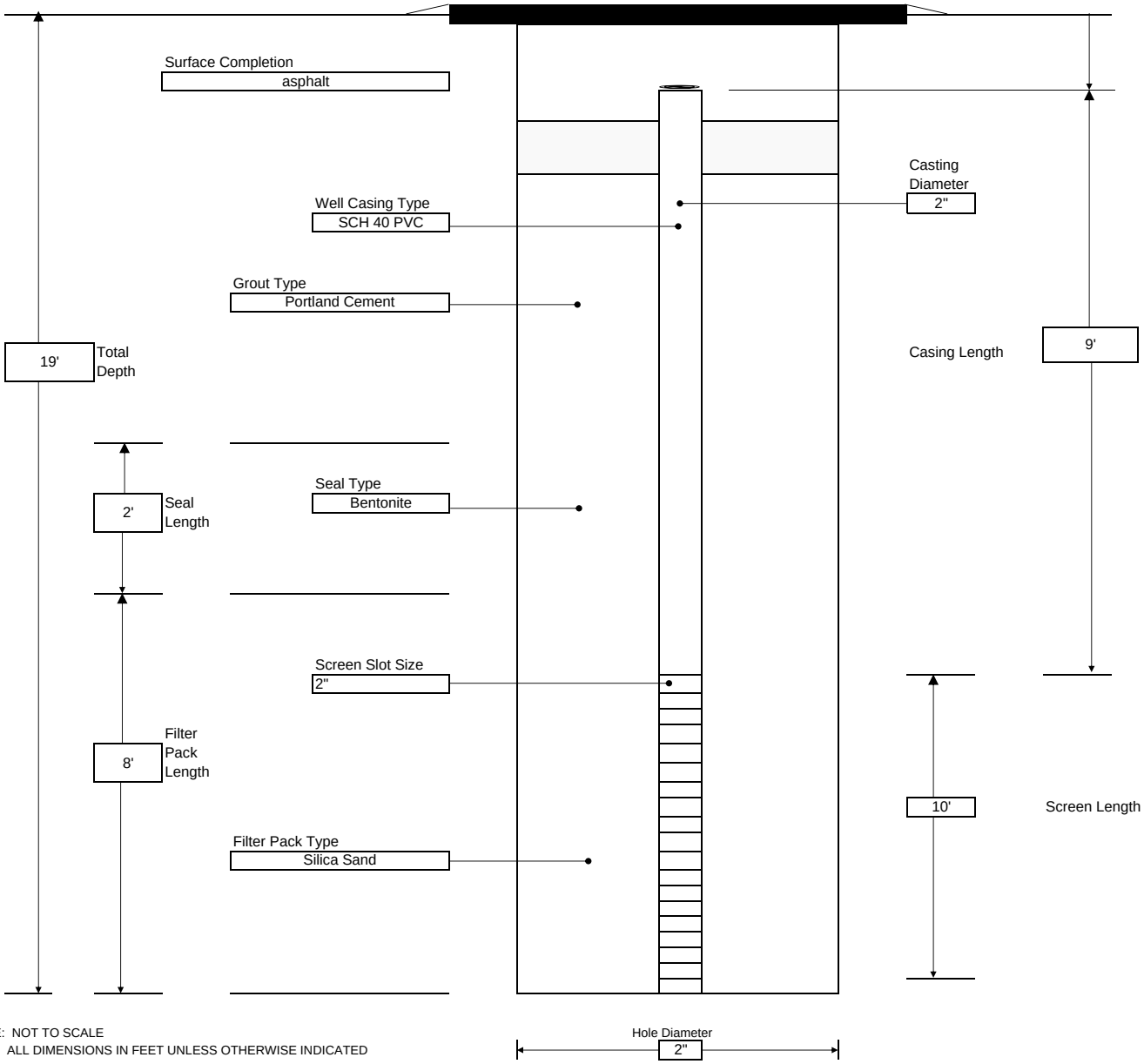
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles

BORING LOCATION: SB-50
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 4/20/2016 | 1400 | 18' | 10' | 0.68' from lid to top of riser |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
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| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | PROJECT<br>Corning Hospital<br>Corning, New York<br>BCP Site #C828101 | BORING: MW-21<br>SHEET 1 OF 1<br>JOB # 2150606<br>CHKD. BYD Noll |
|---|---|---|

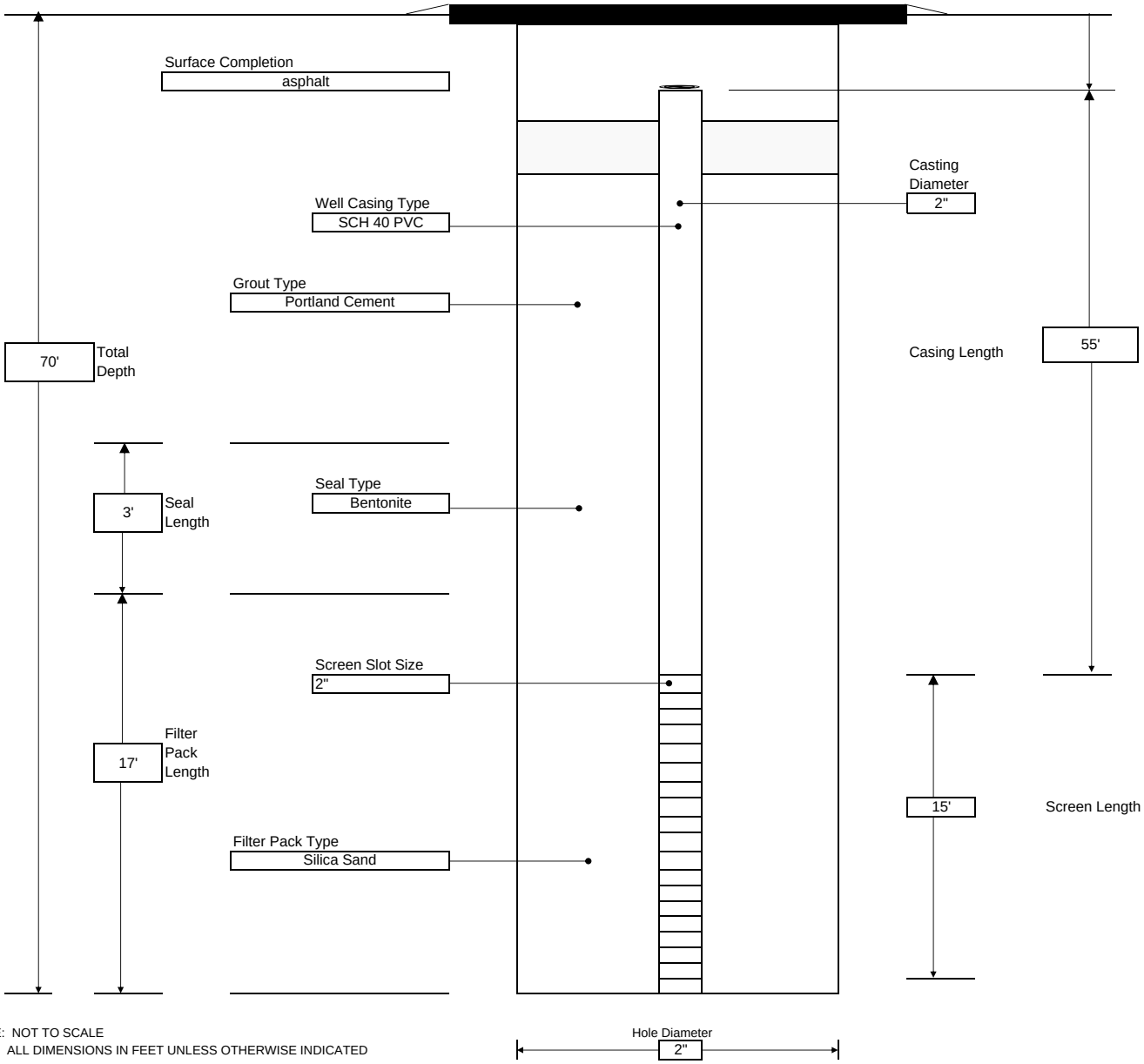
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles

BORING LOCATION: SB-52
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 5/2/2016 | 1245 | 20' | 15' | 0.48' from lid to top of riser |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
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LABELLA Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Corning Hospital
Corning, New York
BCP Site #C828101

BORING: MW-22
SHEET 1 OF 1
JOB # 2150606
CHKD. BYD Noll

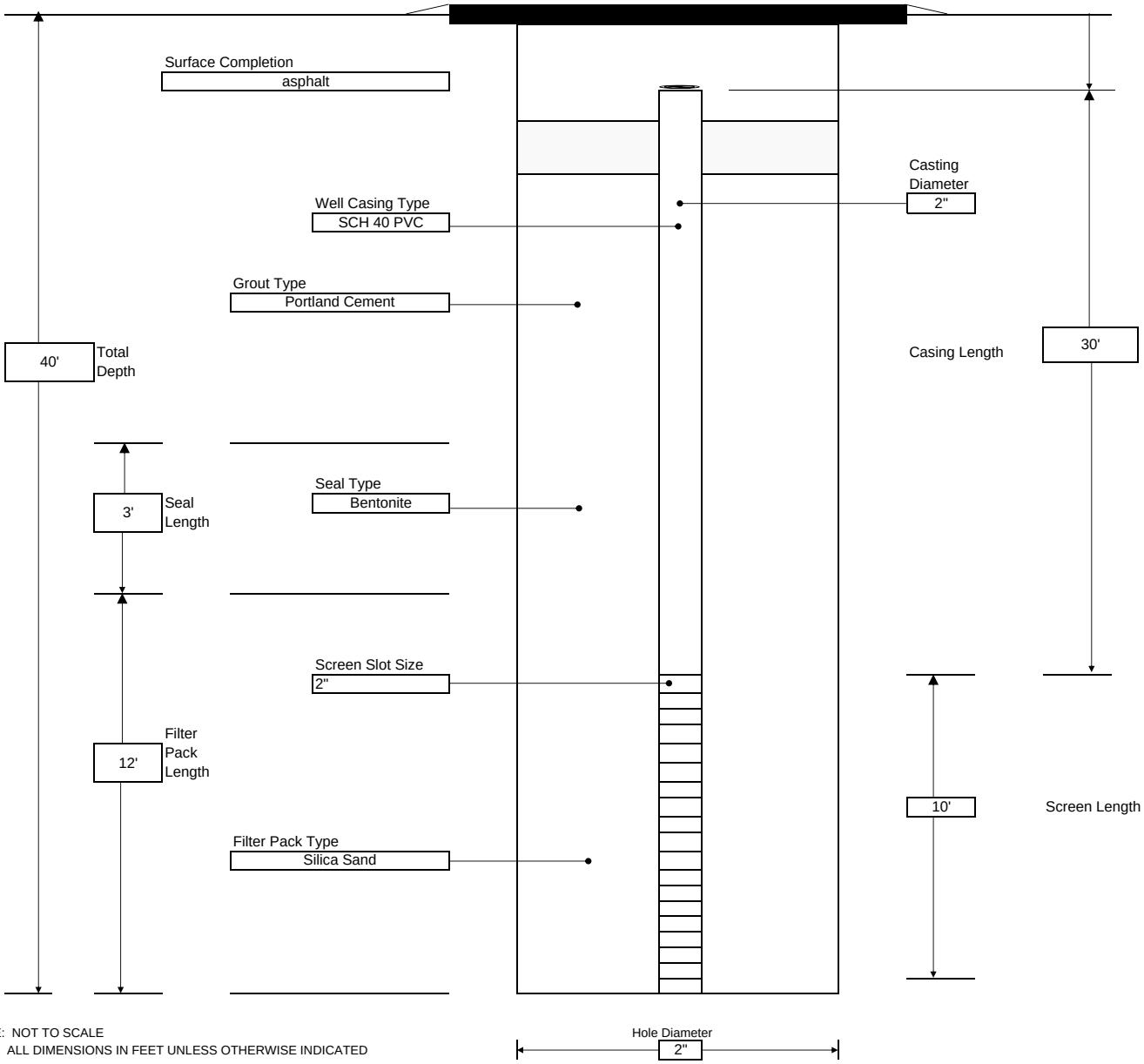
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles

BORING LOCATION: SB-53
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 5/3/2016 | 1500 | 18' | 10' | |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

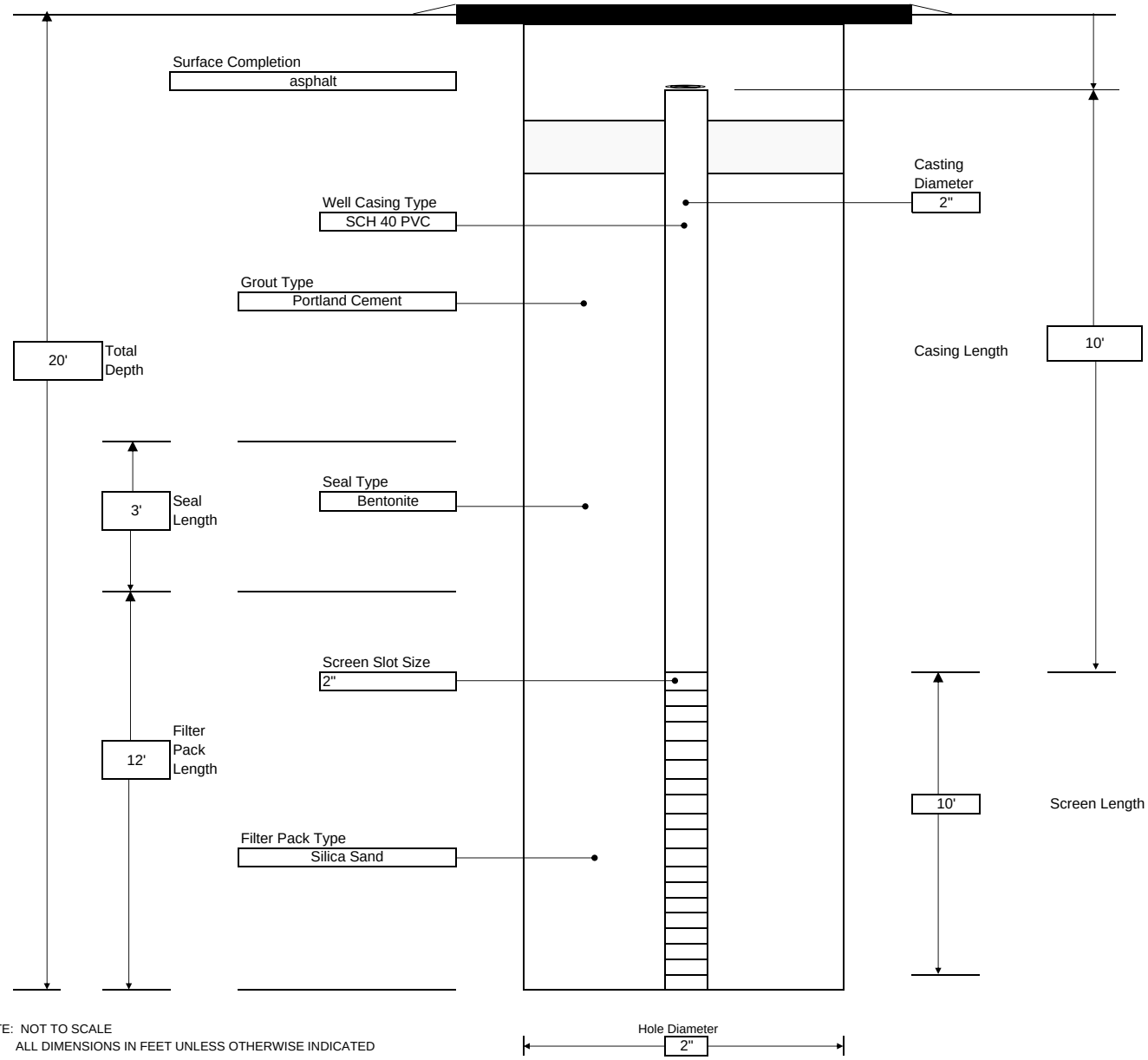
GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | PROJECT<br>Corning Hospital<br>Corning, New York<br>BCP Site #C828101 | BORING: MW-23<br>SHEET 1 OF 1<br>JOB # 2150606<br>CHKD. BYD Noll |
|---|---|---|

CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles
BORING LOCATION: SB-54
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:
TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 5/4/2016 | 1015 | 13' | 10' | |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

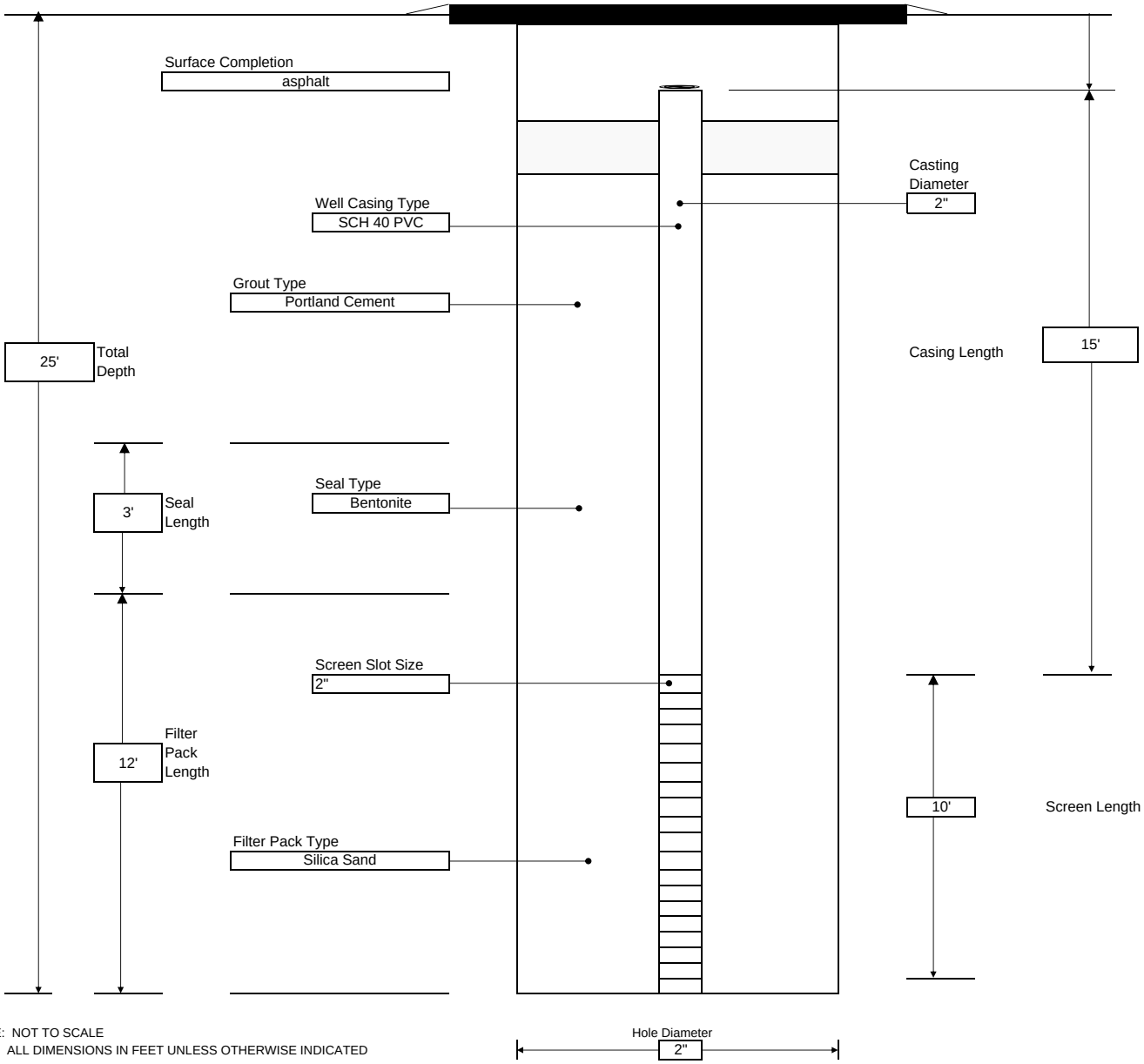
GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

| LABELLA Associates, P.C.<br>300 STATE STREET, ROCHESTER, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | PROJECT<br>Corning Hospital<br>Corning, New York<br>BCP Site #C828101 | BORING: MW-24<br>SHEET 1 OF 1<br>JOB # 2150606<br>CHKD. BYD Noll |
|---|---|---|

CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Danielle Miles
BORING LOCATION: SB-55
GROUND SURFACE ELEVATION: DATUM:
START DATE: END DATE:
TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
ROCK DRILLING METHOD:

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 5/3/2016 | 1130 | 20' | 10' | |
| | | | | |
| | | | | |




NOTE: NOT TO SCALE
ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

# APPENDIX F – QUALITY CONTROL PLAN

# Quality Control (QC) Program

## Location:

Corning Hospital and Related Parcels
176 Denison Parkway East and 201 East First Street
Corning, New York

## Prepared For:

Corning Hospital
1 Guthrie Drive
Corning, NY 14830

and

The Guthrie Clinic
1 Guthrie Square
Sayre, PA 18840

LaBella Project No. 2150606

August 2018

300 State Street, Suite 201 | Rochester, NY 14614 | p 585-454-6110 | f 585-454-3066
www.labellapc.com

# Table of Contents

*Table of Contents (continued)*

**Page**

## 1.0 Introduction

LaBella's Quality Control (QC) Program is an integral part of its approach to environmental investigations. By maintaining a rigorous QC program, our firm is able to provide accurate and reliable data. QC also provides safe working conditions for all on-Site workers.

The QC program contains procedures which allow for the proper collection and evaluation of data and documents that QC procedures have been followed during field investigations. The QC program presents the methodology and measurement procedures used in collecting quality field data. This methodology includes the proper use of equipment, documentation of sample collection, and sample handling procedures.

Procedures used in the firm's QC program are compatible with federal, state, and local regulations, as well as, appropriate professional and technical standards.

This QC program has been organized into the following areas:

- QC Objectives and Checks
- Field Equipment, Handling, and Calibration
- Sampling Techniques
- Sample Handling and Packaging

It should be noted that project-specific work plans (e.g., Remedial Investigation Work Plans) may have project specific details that will differ from the procedures in this QC program. In such cases, the project-specific work plan should be followed (subsequent to regulatory approval).

## 2.0 Quality Control Objectives

The United States Environmental Protection Agency (EPA) has identified five general levels of analytical data quality as being potentially applicable to site investigations conducted under CERCLA. These levels are summarized below:

- **Level I** - Field screening. This level is characterized by the use of portable instruments, which can provide real-time data to assist in the optimization of sampling point locations and for health and safety support. Data can be generated regarding the presence or absence of certain contaminants (especially volatiles) at sampling locations.
- **Level II** - Field analysis. This level is characterized by the use of portable analytical instruments, which can be used on site or in mobile laboratories stationed near a site (close-support labs). Depending upon the types of contaminants, sample matrix, and personnel skills, qualitative and quantitative data can be obtained.
- **Level III** - Laboratory analysis using methods other than the Contract Laboratory Program (CLP) Routine Analytical Services (RAS). This level is used primarily in support of engineering studies using standard EPA-approved procedures. Some procedures may be equivalent to CLP RAS, without the CLP requirements for documentation.

- **Level IV** - CLP Routine Analytical Services. This level is characterized by rigorous QC protocols and documentation and provides qualitative and quantitative analytical data. Some regions have obtained similar support via their own regional laboratories, university laboratories, or other commercial laboratories.
- **Level V** - Non-standard methods. Analyses, which may require method modification and/or development. CLP Special Analytical Services (SAS) are considered Level V.

Unless stated otherwise, all data will be generated in accordance with Level IV. When CLP methodology is not available, federal and state approved methods will be utilized. Level III will be utilized, as necessary, for non-CLP RAS work which may include ignitability, corrosivity, reactivity, EP toxicity, and other state approved parameters for characterization. Level I will be used throughout the RI for health and safety monitoring activities.

All measurements will be made to provide that analytical results are representative of the media and conditions measured. Unless otherwise specified, all data will be calculated and reported in units consistent with other organizations reporting similar data to allow comparability of data bases among organizations. Data will be reported in micrograms per liter (µg/L) and milligrams (mg)/L for aqueous samples, and µg/ kilogram (kg) and mg/kg (dry weight) for soils, or otherwise as applicable.

The characteristics of major importance for the assessment of generated data are accuracy, precision, completeness, representativeness, and comparability. Application of these characteristics to specific projects is addressed later in this document. The characteristics are defined below.

## 2.1 Accuracy

Accuracy is the degree of agreement of a measurement or average of measurements with an accepted reference or "true" value and is a measure of bias in the system.

## 2.2 Precision

Precision is the degree of mutual agreement among individual measurements of a given parameter.

## 2.3 Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under correct normal conditions.

## 2.4 Representativeness

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition

Careful choice and use of appropriate methods in the field will ensure that samples are representative. This is relatively easy with water or air samples since these components are homogeneously dispersed. In soil and sediment, contaminants are unlikely to be evenly distributed, and thus it is important for the sampler and analyst to exercise good judgment when removing a

sample.

### 2.5 Comparability

Comparability expresses the confidence with which one data set can be compared to another. The data sets may be inter- or intra- laboratory.

## 3.0 Measurement of Data Quality

### 3.1 Accuracy

Accuracy of a particular analysis is measured by assessing its performance with "known" samples. These "knowns" take the form of EPA standard reference materials, or laboratory prepared solutions of target analytes spiked into a pure water or sample matrix. In the case of gas chromatography (GC) or GC/MS (mass spectrometry) analyses, solutions of surrogate compounds are used. These solutions can be spiked into every sample and are designed to mimic the behavior of target analytes without interfering with their determination.

In each case the recovery of the analyte is measured as a percentage, correcting for analytes known to be present in the original sample if necessary, as in the case of a matrix spike analysis. For EPA supplied known solutions, this recovery is compared to the published data that accompany the solution.

For the firm's prepared solutions, the recovery is compared to EPA-developed data or the firm's historical data as available. For surrogate compounds, recoveries are compared to EPA CLP acceptable recovery tables.

If recoveries do not meet required criteria, then the analytical data for the batch (or, in the case of surrogate compounds, for the individual sample) are considered potentially inaccurate. The analyst or his supervisor must initiate an investigation of the cause of the problem and take corrective action. This can include recalibration of the instrument, reanalysis of the QC sample, reanalysis of the samples in the batch, or flagging the data as suspect if the problems cannot be resolved. For highly contaminated samples, recovery of the matrix spike may depend on sample homogeneity. As a rule, analyses are not corrected for recovery of matrix spike or surrogate compounds.

### 3.2 Precision

Precision of a particular analysis is measured by assessing its performance with duplicate or replicate samples. Duplicate samples are pairs of samples taken in the field and transported to the laboratory as distinct samples. Their identity as duplicates is typically not known to the laboratory. For most purposes, precision is determined by the analysis of replicate pairs (i.e., two samples prepared at the laboratory from one original sample). Often in replicate analysis the sample chosen for replication does not contain target analytes so that quantitation of precision is impossible. For EPA CLP analyses, replicate pairs of spiked samples, known as matrix spike/matrix spike duplicate samples, are used for precision studies. This has the advantage that two real positive values for a target analyte can be compared.

Precision is calculated in terms of Relative Percent Difference (RPD).

- Where $X_1$ and $X_2$ represent the individual values found for the target analyte in the two replicate analyses or in the matrix spike/matrix spike duplicate analyses.
- RPDs must be compared to the method RPD for the analysis. The analyst or his supervisor must investigate the cause of RPDs outside stated acceptance limits. This may include a visual inspection of the sample for non-homogeneity, analysis of check samples, etc. Follow-up action may include sample reanalysis or flagging of the data as suspect if problems cannot be resolved.
- During the data review and validation process, field duplicate RPDs are assessed as a measure of the total variability of both field sampling and laboratory analysis.

### 3.3 Completeness

Completeness for each parameter is calculated as follows:

- The firm's target value for completeness for all parameters is 100%. A completeness value of 95% will be considered acceptable. Incomplete results will be reported to the site managers. In planning the field sample collection, the site manager will plan to collect field duplicates from identified critical areas. This procedure should assure 100% completeness for these areas.

### 3.4 Representativeness

The characteristic of representativeness is not quantifiable. Subjective factors to be taken into account are as follows:

- The degree of homogeneity of a site;
- The degree of homogeneity of a sample taken from one point in a site; and
- The available information on which a sampling plan is based.

To maximize representativeness of results, sampling techniques and sample locations will be carefully chosen so that they provide laboratory samples representative of the site and the specific area. Within the laboratory, precautions are taken to extract from the sample bottle an aliquot representative of the whole sample. This includes premixing the sample and discarding pebbles from soil samples.

## 4.0 Quality Control Targets

Target values for detection limit, percent spike recovery and percent "true" value of known check standards, and RPD of duplicates/replicates are included in the QCP, Analytical Procedures. Note that tabulated values are not always attainable. Instances may arise where high sample concentrations, non-homogeneity of samples, or matrix interferences preclude achievement of target detection limits or other quality control criteria. In such instances, the firm will report reasons for deviations from these detection limits or noncompliance with quality control criteria.

## 5.0 Management of Waste

Purpose:

The purposes of these guidelines are to ensure the proper holding, storage, transportation, and disposal of materials that may contain hazardous wastes. Investigation-derived waste (IDW) included the following:

- Drill cuttings, discarded soil samples, drilling mud solids, and used sample containers;
- Well development and purge waters and discarded groundwater samples;
- Decontamination waters and associated solids;
- Soiled disposable personal protective equipment (PPE);
- Used disposable sampling equipment;
- Used plastic sheeting and aluminum foil;
- Other equipment or materials that either contain or have been in contact with potentially-impacted environmental media.
- Because these materials may contain regulated chemical constituents, they must be managed as a solid waste. This management may be terminated if characterization analytical results indicate the absence of these constituents.

The above is a common list of materials but not all may be relevant to the work completed as part of the Site Management Plan implementation

Procedure:

1. Contain all investigation-derived wastes in Department of Transportation (DOT)-approved 55-gallon drums, roll-off boxes, or other containers suitable for the wastes.
2. Containerize wastes from separate locations in separate containers (i.e. do not combine wastes from several locations in a single container, unless it is a container used specifically for transfer purposes, or unless specific permission to do so has been provided by the LaBella Project Manager.
3. To the extent practicable, separate solids from liquids. Place solids within separate containers.
4. Transfer all waste containers to a staging area. Access to this area will be controlled. Waste containers must be transferred to the staging area as soon as practicable after the generating activity is complete.
5. Pending transfer, all containers will be covered and secured when not immediately attended,
6. Label all containers with regard to contents, origin, and date of generation. Use indelible ink for all labeling.
7. Collect samples for waste characterization purposes, use boring/well sample analytical data for characterization.
8. For wastes determined to be hazardous in character, be aware on accumulation time

limitations. Coordinate the disposal of these wastes with the Owner and NYSDEC.

9. Dispose of wastes as follows;

   - Soil, water, and other environmental media for which testing results are within NYSDEC reuse criteria may be spread on-site (pending NYSDEC approval) or otherwise treated as a non-waste material.
   - Soils, water, and other environmental media in which organic compounds are detected or metals are present above NYSDEC reuse criteria will be disposed as industrial waste or hazardous waste, as appropriate. Alternate disposition must be consistent with applicable State and Federal laws.
   - Personal protective equipment, disposable bailers, and similar equipment may be disposed as municipal waste, unless waste characterization results mandate disposal as industrial wastes

10. If waste is determined to be listed hazardous waste, it must be handled as hazardous waste as described above, unless a contained-in determination is accepted by the NYSDEC.

## 6.0 Decontamination

Sampling methods and equipment have been chosen to minimize decontamination requirements and to prevent the possibility of cross-contamination. Decontamination of equipment will be performed between discrete sampling locations. Equipment used to collect samples between composite sample locations will not require decontamination between collection of samples.

Non-disposable equipment will be decontaminated between each sampling event. The sampler will be cleaned prior to each use, by one of the following procedures:

- Initially cleaned of all foreign matter;
- Sanitized with a steam cleaner;

OR

- Initially cleaned of all foreign matter;
- Scrubbed with brushes in alconox solution;
- Triple rinsed; and
- Allowed to air dry.

## 7.0 Sample Containers

The containers required for sampling activities are pre-washed and ordered directly from a laboratory, which has the containers prepared in accordance with USEPA bottle washing procedures. The following tables detail sample volumes, containers, preservation and holding time for typical analytes.

**Table 11-1**
**Water Samples**

| Type of Analysis | Type and Size of Container | Number of Containers and Sample Volume (per sample) | Preservation | Maximum Holding Time |
|---|---|---|---|---|
| VOCs | 40-ml glass vial with Teflon-backed septum | Two (2); fill completely, no air space | Cool to 4° C (ice in cooler), Hydrochloric acid to pH <2 | 7 days |
| Semivolatile Organic Compounds (SVOCs) | 1,000-ml amber glass jar | One (1); fill completely | Cool to 4° C (ice in cooler) | 7/40 days |
| Pesticides | 1,000-ml amber glass jar | One (1); fill completely | Cool to 4° C (ice in cooler) | 7/40 days |
| Polychlorinated biphenyls (PCBs) | 1,000-ml amber glass jar | One (1); fill completely | Cool to 4° C (ice in cooler) | 7/40 days |
| Metals | 500-ml polyethylene | One (1); fill completely | Cool to 4° C (Nitric acid to pH <2 | 6 months |

*Holding time is based on verified time of sample collection.

*Note: All sample bottles will be prepared in accordance with USEPA bottle washing procedures.*

## TABLE 11-2
## Soil Samples

| Type of Analysis | Type and Size of Container | Number of Containers and Sample Volume (per sample) | Preservation | Maximum Holding Time |
|---|---|---|---|---|
| VOCs, SVOCs, PCBs, and Pesticides | 8-oz, glass jar with Teflon-lined cap | One (1), fill as completely as possible | Cool to 4° C (ice in cooler) | 7 days |
| VOCs by USEPA Method 5035 (if specified in work plan) Closed-system Purge and Trap Method | 40-ml glass vial with Teflon-backed septum | Three (3), fill with 5 grams of soil using soil syringe | Cool to 4° C (ice in cooler). Two (2) with 10 mL DI water or 5 mL sodium bisulfate, one (1) with 5 mL methanol. | 14 days |
| RCRA/TAL Metals, and cyanide | 8-oz. glass jar with Teflon-lined cap | One (1); fill completely | Cool to 4° C (ice in cooler) | Must be extracted within 10 days; analyzed with 30 days |

*Holding time is based on the times from verified time of sample collection.

*Note: All sample bottles will be prepared in accordance with USEPA bottle washing procedures.*

## TABLE 11-3
## List of Major Instruments for Sampling and Analysis

- MSA 360 $0_2$ /Explosimeter
- Hollige Series 963 Nephlometer (turbidity meter)
- EM-31 Geomics Electromagnetic Induction Device
- pH/Temperature/Conductivity Meter - Portable
- Hewlett Packard (HP) 1000 computer with RTE-6 operating system; and HP 9144 computer with RTE-4 operating system equipped with Aquarius software for control and data acquisition from gas chromatograph/mass spectrometer (GC/MS) systems; combined wiley and National Bureau of Standards (NBS) mass spectral library; and data archiving on magnetic tape
- Viriam 6000 and 37000 gas chromatrographs equipped with flame ionization, electron capture, photoionization and wall detectors as appropriate for various analyses,, and interfaced to Variam DS604 or D5634 data systems for processing data.
- Spectra-Physics Model SP 4100 and SP 4270 and Variam 4270 cam puting integrators
- Perkin Eimer (PE) 3000% and 3030% fully Automated Atomic Absorption Spectrophotometers (AAS) with Furnace Atomizer and background correction system
- PE Plasma II Inductively Coupled Argon Plasma (ICAP) Spectre meter with PE7500 laboratory computer
- Dionex 20001 ion chromatograph with conductivity detector for anion analysis, with integrating recorder

# 8.0 Sample Custody

This section describes standard operating procedures for sample identification and chain-of-custody to be utilized for all field activities. The purpose of these procedures is to ensure that the quality of the samples is maintained during their collection, transportation, and storage through analysis. All chain-of-custody requirements comply with standard operating procedures indicated in USEPA sample handling protocol.

Sample identification documents must be carefully prepared so that sample identification and chain-of-custody can be maintained and sample disposition controlled. Sample identification documents include:

- Field notebooks,
- Sample label,
- Custody seals, and
- Chain-of-custody records.

## 8.1 Chain-of-Custody

The primary objective of the chain-of-custody procedures is to provide an accurate written or computerized record that can be used to trace the possession and handling of a sample from collection to completion of all required analyses. A sample is in custody if it is:

- In someone's physical possession;
- In someone's view;
- Locked up; or
- Kept in a secured area that is restricted to authorized personnel.

## 8.2 Field Custody Procedures

- As few persons as possible should handle samples.
- Sample bottles will be obtained pre-cleaned from a source such as I-Chem. Coolers or boxes containing cleaned bottles should be sealed with a custody tape seal during transport to the field or while in storage prior to use.
- The sample collector is personally responsible for the care and custody of samples collected until they are transferred to another person or dispatched properly under chain-of-custody rules.
- The sample collector will record sample data in the notebook.
- The site manager will determine whether proper custody procedures were followed during the fieldwork and decide if additional samples are required.

## 8.3 Sample Tags

Sample tags attached to or affixed around the sample container must be used to properly identify all samples collected in the field. The sample tags are to be placed on the bottles so as not to obscure any QC lot numbers on the bottles; sample information must be printed in a legible manner using waterproof ink. Field identification must be sufficient to enable cross-reference with the logbook.

For chain-of-custody purposes, all QC samples are subject to exactly the same custodial procedures and documentation as "real" samples.

## 8.4 Transfer of Custody and Shipment

- The coolers in which the samples are packed must be accompanied by a chain-of-custody record. When transferring samples, the individuals relinquishing and receiving them must sign, date, and note the time on the chain-of-custody record. This record documents sample custody transfer
- Shipping containers must be sealed with custody seals for shipment to the laboratory. The method of shipment, name of courier, and other pertinent information are entered in the "Remarks" section of the chain-of-custody record and traffic reports.
- All shipments must be accompanied by the chain-of-custody record identifying their contents. The original record accompanies the shipment. The other copies are distributed appropriately to the site manager.
- If sent by mail, the package is registered with return receipt requested. If sent by common carrier, a bill of lading is used. Freight bills, Postal Service receipts, and bill of lading are retained as part of the permanent documentation.

## 8.5 Chain-of-Custody Record

The chain-of-custody record must be fully completed in duplicate, using black carbon paper where possible, by the field technician who has been designated by the project manager as responsible for sample shipment to the appropriate laboratory for analysis. In addition, if samples are known to require rapid turnaround in the laboratory because of project time constraints or analytical concerns (e.g., extraction time or sample retention period limitations, etc.), the person completing the chain-of-custody record should note these constraints in the "Remarks" section of the record.

## 8.6 Laboratory Custody Procedures

A designated sample custodian accepts custody of the shipped samples and verifies that the sample identification number matches that on the chain-of-custody record and traffic reports, if required. Pertinent information as to shipment, pickup, and courier is entered in the "Remarks" section.

## 8.7 Custody Seals

Custody seals are preprinted adhesive-backed seals with security slots designed to break if the seals are disturbed. Sample shipping containers (coolers, cardboard boxes, etc., as appropriate) are sealed in as many places as necessary to ensure security. Seals must be signed and dated before use. On receipt at the laboratory, the custodian must check (and certify, by completing the package receipt log and LABMIS entries) that seals on boxes and bottles are intact. Strapping tape should be placed over the seals to ensure that seals are not accidentally broken during shipment.

# 9.0 Laboratory Requirements and Deliverables

This section will describe laboratory requirement and procedures to be followed for laboratory analysis. Samples collected in New York State will be analyzed by a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. When required, analyses will be conducted in accordance with the most current NYSDEC Analytical Services Protocol (ASP). For example, ASP Category B reports will be completed by the laboratory for samples representing confirmation samples and correlation samples taken using field testing technologies analyzed by an ELAP-certified laboratory to determine correlation to field results. Data Usability Summary Reports will be completed by a third party for samples requiring ASP Category B format reports. Electronic data deliverables (EDDs) will also be generated by the laboratory in EQUIS format for samples requiring ASP Category B format reports.

# 10.0 Documentation

## 10.1 Sample Identification

All containers of samples collected from the project will be identified using the following format on a label or tag fixed to the sample container:

XX-ZZ-O/D-DDMMYYYY

| | |
|---|---|
| XX: | This set of initials indicates the Site from which the sample was collected. |
| ZZ: | These initials identify the sample location. Actual sample locations will be recorded in the task log. |
| O/D: | An "O" designates an original sample; "D" identifies it as a duplicate. |
| DDMMYYYY: | This set of initials indicates the date the sample was collected |

Each sample will be labeled, chemically preserved (if required) and sealed immediately after collection. To minimize handling of sample containers, labels will be filled out prior to sample collection when possible. The sample label will be filled out using waterproof ink and will be firmly affixed to the sample containers. The sample label will give the following information:

- Date and time of collection
- Sample identification
- Analysis required
- Project name/number
- Preservation

## 10.2 Daily Logs

Daily logs and data forms are necessary to provide sufficient data and observations to enable participants to reconstruct events that occurred during the project and to refresh the memory of the field personnel if called upon to give testimony during legal proceedings.

The site log is the responsibility of the site manager and will include a complete summary of the day's activity at the site.

The **Task Log** will include:

- Name of person making entry (signature).
- Names of team members on-site.
- Levels of personnel protection:
  - Level of protection originally used;
  - Changes in protection, if required; and
  - Reasons for changes.
- 
- Documentation on samples taken, including:
  - Sampling location and depth station numbers;
  - Sampling date and time, sampling personnel;
  - Type of sample (grab, composite, etc.); and
  - Sample matrix.
- On-site measurement data.
- Field observations and remarks.
- Weather conditions, wind direction, etc.
- Unusual circumstances or difficulties.
- Initials of person recording the information.

# 11.0 Corrections to Documentation

## 11.1 Notebook

As with any data logbooks, no pages will be removed for any reason. If corrections are necessary, these must be made by drawing a single line through the original entry (so that the original entry can still be read) and writing the corrected entry alongside. The correction must be initialed and dated. Most corrected errors will require a footnote explaining the correction.

## 11.2 Sampling Forms

As previously stated, all sample identification tags, chain-of-custody records, and other forms must be written in waterproof ink. None of these documents are to be destroyed or thrown away, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made on a document assigned to one individual, that individual may make corrections simply by crossing a line through the error and entering the corrected information. The incorrect information should not be obliterated. Any subsequent error discovered on a document should be corrected by the person who made the entry. All corrections must be initialed and dated.

## 11.3 Photographs

Photographs will be taken as directed by the site manager. Documentation of a photograph is crucial to its validity as a representation of an existing situation. The following information will be noted in the task log concerning photographs:

- Date, time, location photograph was taken;
- Photographer
- Description of photograph taken;

## 12.0 Sample Handling, Packaging, and Shipping

The transportation and handling of samples must be accomplished in a manner that not only protects the integrity of the sample, but also prevents any detrimental effects due to the possible hazardous nature of samples. Regulations for packaging, marking, labeling, and shipping hazardous materials are promulgated by the United States DOT in the Code of Federal Regulation, 49 CFR 171 through 177. All samples will be delivered to the laboratory and analyzed within the holding times specified by the analytical method for that particular analyte.

All chain-of-custody requirements must comply with standard operating procedures in the USEPA sample handling protocol.

### 12.1 Sample Packaging

Samples must be packaged carefully to avoid breakage or contamination and must be shipped to the laboratory at proper temperatures. The following sample packaging requirements will be followed:

- Sample bottle lids must never be mixed. All sample lids must stay with the original containers.
- The sample volume level can be marked by placing the top of the label at the appropriate sample height, or with a grease pencil. This procedure will help the laboratory to determine if any leakage occurred during shipment. The label should not cover any bottle preparation QC lot numbers.
- All sample bottles are placed in a plastic bag to minimize the potential for cross-contamination.
- Shipping coolers must be partially filled with packing materials and ice when required, to prevent the bottles from moving during shipment.
- The sample bottles must be placed in the cooler in such a way as to ensure that they do not touch one another. Ice will be added to the cooler to ensure that the samples reach the laboratory at temperatures no greater than 4°C.
- The environmental samples are to be placed in plastic bags. Ice is not to be used as a substitute for packing materials.
- Any remaining space in the cooler should be filled with inert packing material. Under no circumstances should material such as sawdust, sand, etc., be used.
- A duplicate custody record and traffic reports, if required must be placed in a plastic bag and taped to the bottom of the cooler lid. Custody seals are affixed to the sample cooler.

### 12.2 Shipping Containers

Shipping containers are to be custody-sealed for shipment as appropriate. The container custody seal will consist of filament tape wrapped around the package and custody seals affixed in such a way that access to the container can be gained only by cutting the filament tape and breaking a seal.

Field personnel will make arrangements for transportation of samples to the lab. The lab must be

notified as early in the week as possible regarding samples intended for Saturday delivery.

### 12.3 Marking and Labeling

- Chain of custody seals shall be placed on the container, signed, and dated prior to taping the container to ensure the chain of custody seals will not be destroyed during shipment.
- If samples are designated as medium or high hazard, they must be sealed in metal paint cans, placed in the cooler with vermiculite and labeled and placarded in accordance with DOT regulations.
- In addition, the coolers must also be labeled and placarded in accordance with DOT regulations if shipping medium and high hazard samples.

## 13.0 Calibration Procedures and Frequency

All instruments and equipment used during sampling and analysis will be operated, calibrated, and maintained according to the manufacturer's guidelines and recommendations as well as criteria set forth in the applicable analytical methodology references. Operation, calibration, and maintenance will be performed by personnel properly trained in these procedures. Section 7 lists the major instruments to be used for sampling and analysis. In addition, brief descriptions of calibration procedures for major field and laboratory instruments follow.

## 14.0 Field Instrumentation

### 14.1 Photovac/MiniRae Photoionization Detector (PID)

Standard operating procedures for the PID require that routine maintenance and calibration be performed every six months. The packages used for calibration are non-toxic analyzed gas mixtures available in pressurized containers.

### 14.2 Organic Vapor Analyzer

Organic vapor analyzers (OVAs) are calibrated and routine maintenance performed every six months when the units are not in use. Calibration is performed and the major system checks are performed prior to the instrument being released for field use.

Calibration of the OVA 128 GC must be performed by a factory-authorized service representative. The instrument is removed from its protective case and the probe is connected to the base unit. After checking for an airtight seal in the sample line (plugging the sample inlet to stop the pump), the hydrogen supply is turned on and the pressure is set to 10 psi. The electronics are turned on and the instrument is allowed to warm up for at least 5 minutes. After warm up, the instrument is zeroed on the "X10" scale using the adjust knob. The flame is then lit and a gas-tight sample bag is filled with a mixture of 100 ppm methane in air. The sample bag is then attached to the probe inlet and the internal pump is allowed to draw in as much sample as is needed. R32 on the control board is adjusted to read 100 ppm on the "X10" scale and then the hydrogen supply is shut down. The pump can now be turned off and the sample bag removed. Using the adjust knob, the meter is set to read 4 ppm on the "X1" scale. Switching back to the "X10" scale the adjust knob is again used to set the

meter to 40 ppm. The scale is then set to "X100" and R33 is adjusted until the meter reads 40 ppm on the "X100" scale.

The OVA has a detection limit of 0.1 ppm in methane equivalents and a working range of 0 to 1,000 ppm. During daily field use, system checks are performed which involve calibration and maintenance of the pump systems, gases, and filters. Care is taken to check for and prevent clogging or leaks. Quad rings and the burner chamber are examined on a weekly basis. Routine biannual maintenance includes a thorough cleaning as well as a re-examination of the pump system for leaks and wear. Parts are replaced as necessary. Instrument operation is verified by calibrating and running the OVA for 4 to 6 hours. An instrument specific logbook is maintained with the OVA to document its use and maintenance.

## 15.0 Internal Quality Control Checks

QC data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of field equipment. Field-based QC will comprise at least 10% of each data set generated and will consist of standards, replicates, spikes, and blanks. Field duplicates and field blanks will be analyzed by the laboratory as samples and will not necessarily be identified to the laboratory as duplicates or blanks. For each matrix, field duplicates will be provided at a rate of one per 10 samples collected or one per shipment, whichever is greater. Field blanks which consist of trip, routine field, and rinsate blanks will be provided at a rate of one per 20 samples collected for each parameter group, or one per shipment, whichever is greater.

Calculations will be performed for recoveries and standard deviations along with review of retention times, response factors, chromatograms, calibration, tuning, and all other QC information generated. All QC data, including split samples, will be documented in the site logbook. QC records will be retained and results reported with sample data.

### 15.1 Blank Samples

Blank samples are analyzed in order to assess possible contamination from the field and/or laboratory so that corrective measures may be taken, if necessary. Field samples are discussed in the following subsection:

### 15.2 Field Blanks

Various types of blanks are used to check the cleanliness of field handling methods. The following types of blanks may be used: the trip blank, the routine field blank, and the field equipment blank. They are analyzed in the laboratory as samples, and their purpose is to assess the sampling and transport procedures as possible sources of sample contamination. Field staff may add blanks if field circumstances are such that they consider normal procedures are not sufficient to prevent or control sample contamination, or at the direction of the project manager. Rigorous documentation of all blanks in the site logbooks is mandatory.

- **Routine Field Blanks** or bottle blanks are blank samples prepared in the field to access ambient field conditions. They will be prepared by filling empty sample containers with deionized water and any necessary preservatives. They will be handled like a sample and

shipped to the laboratory for analysis.

- **Trip Blanks** are similar to routine field blanks with the exception that they are **not** exposed to field conditions. Their analytical results give the overall level of contamination from everything except ambient field conditions. For the RI/FS, one trip blank will be collected with every batch of water samples for VOC analysis. Each trip blank will be prepared by filling a 40-ml vial with deionized water prior to the sampling trip, transported to the site, handled like a sample, and returned to the laboratory for analysis without being opened in the field.
- **Field Equipment Blanks** are blank samples (sometimes called transfer blanks or rinsate blanks) designed to demonstrate that sampling equipment has been properly prepared and cleaned before field use, and that cleaning procedures between samples are sufficient to minimize cross contamination. If a sampling team is familiar with a particular site, they may be able to predict which areas or samples are likely to have the highest concentration of contaminants. Unless other constraints apply, these samples should be taken last to avoid excessive contamination of sampling equipment.

## 15.3 Field Duplicates

Field duplicate samples consist of a set of two samples collected independently at a sampling location during a single sampling event. In some instances the field duplicate can be a blind duplicate, i.e., indistinguishable from other analytical samples so that personnel performing the analyses are not able to determine which samples are field duplicates. Field duplicates are designed to assess the consistency of the overall sampling and analytical system.

## 15.4 Quality Control Check Samples

Inorganic and organic control check samples are available from EPA free of charge and are used as a means of evaluating analytical techniques of the analyst. Control check samples are subjected to the entire sample procedure, including extraction, digestion, etc., as appropriate for the analytical method utilized.

# APPENDIX G –
# HEALTH AND SAFETY PLAN &
# COMMUNITY AIR MONITORING PLAN

# Site Health and Safety Plan
## Corning Hospital and Related Parcels
## BCP Site #C851049

Location:

176 Denson Parkway East and
201 East First Street
Corning, New York

Prepared For:

Corning Hospital
1 Guthrie Drive
Corning, NY 14830
and
The Guthrie Clinic
1 Guthrie Square
Sayre, PA 18840

LaBella Project No. 250606
December 2015

# Site Health and Safety Plan
## Corning Hospital and Related Parcels
## BCP Site #C851049

Location:

176 Denison Parkway East and 201 East First Street
Corning, New York

Prepared For:

Corning Hospital
1 Guthrie Drive
Corning, NY 14830

The Guthrie Clinic
1 Guthrie Square
Sayre, PA 18840

LaBella Project No. 2150606

December 2015

## Table of Contents

# SITE HEALTH AND SAFETY PLAN

| | |
|---|---|
| **Project Title:** | Corning Hospital and Related Parcels |
| **Project Number:** | 2150606 |
| **Project Location (Site):** | 176 Denison Parkway East and 201 East First Street |
| **Environmental Director:** | Gregory Senecal, CHMM |
| **Site Safety Manager:** | Richard Rote, CIH |
| **Site Contact:** | Dan Noll |
| **Site Control Provided By:** | LaBella Associates, D.P.C. |
| **Project Manager:** | Dan Noll |
| **Plan Review Date:** | 12/9/2015 |
| **Plan Approval Date:** | 12/9/2015 |
| **Plan Approved By:** | _____<br>Mr. Richard Rote, CIH |
| **Site Conditions:** | 4.77 acres; formerly occupied by Corning Hospital |
| **Site Environmental Information Provided By:** | • *Soil Boring Report*, 1991 (Appendices only)<br>• *Phase I Environmental Hazard Audit* by The Sear-Brown Group dated September 17th, 1991<br>• *Soil Core Investigation* by The Sear-Brown Group dated September 24th, 1997 (appendices including laboratory data not available for review).<br>• *Underground Storage Tank Removal and Remediation* by the Sear-Brown Group dated October 30th, 1998 (appendices including laboratory data not available for review).<br>• *SPDES Permitting Review* by the Sear-Brown Group dated March 10th, 1998<br>• *Corning Hospital and Associated Parcels Phase I Environmental Site Assessment (ESA)* by Stantec Consulting Services Inc. dated March 27th, 2014<br>• *Corning Hospital and Associated Parcels Phase II Environmental Site Assessment* by LaBella Associates, D.P.C. dated May 2015 |

**Air Monitoring Provided By:** LaBella Associates, D.P.C.

**Site Control Provided By:** Contractor(s) TBD

# EMERGENCY CONTACTS

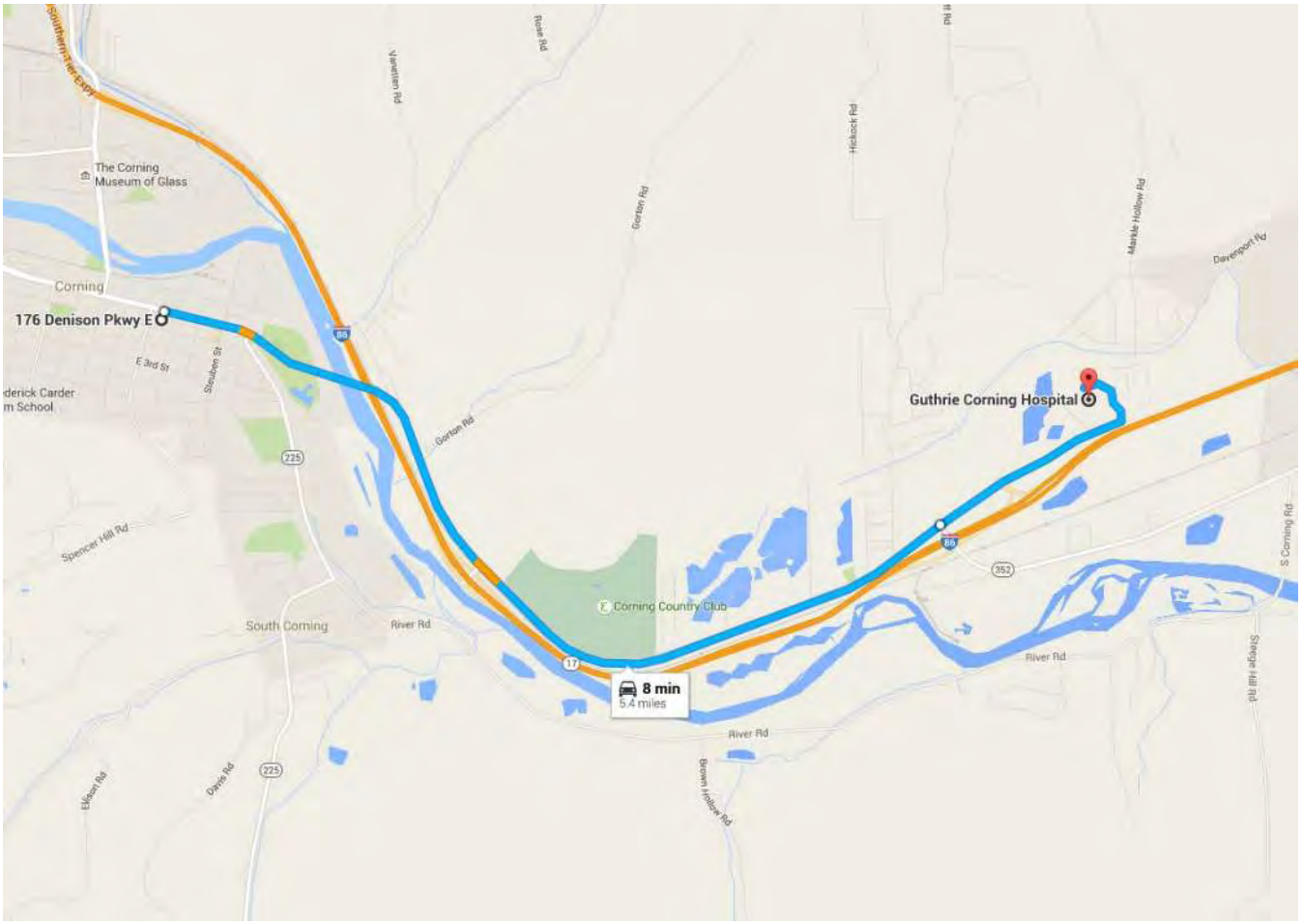
| | Name | Phone Number |
|---|---|---|
| Ambulance: | As Per Emergency Service | 911 |
| Hospital Emergency: | Guthrie Corning Hospital | 607-937-7200 |
| Poison Control Center: | Finger Lakes Poison Control | 585-273-4621 |
| Police (local, state): | Corning Police Department | 911 |
| Fire Department: | Corning Fire Department | 911 |
| Site Contact: | Anita Kingsbauer, Guthrie | 570-887-4317 |
| Agency Contact | Tim Schneider, NYSDEC | 585-226-5480 |
| Project Manager | Dan Noll, LaBella | 585-295-6611 |
| Site Safety Manager: | Richard Rote, LaBella | 585-414-8891 |

# MAP AND DIRECTIONS TO THE MEDICAL FACILITY
# GUTHRIE CORNING HOSPITAL

Address: 1 Guthrie Drive, Corning NY

1. Head east on Denison Parkway East/ NY-352 E
2. Continue straight onto E Corning Rd
3. Destination will be on left

Total Travel Estimate: 5.4- miles - about 8 minutes



# 1.0 Introduction

The purpose of this Health and Safety Plan (HASP) it to provide guidelines for responding to potential health and safety issues that may be encountered during the field activities relating to the implementation of Brownfield Cleanup Program (BCP) requirements at the property addressed as 176 Denison Parkway East and 201 East First Street, City of Corning, Steuben County, New York (the Site). This HASP only reflects the policies of LaBella Associates D.P.C. The requirements of this HASP are applicable to all approved LaBella personnel at the work site. The provisions of the HASP were developed in general accordance with 29 CFR 1910 and 29 CFR 1926 and do not replace or supersede any regulatory requirements of the USEPA, NYSDEC, OSHA or and other regulatory body.

# 2.0 Responsibilities

This HASP presents guidelines to minimize the risk of injury to project personnel, and to provide rapid response in the event of injury. The HASP is applicable only to activities of approved LaBella personnel and their authorized visitors. The Project Manager shall implement the provisions of this HASP for the duration of the project. It is the responsibility of LaBella employees to follow the requirements of this HASP, and all applicable company safety procedures.

# 3.0 Activities Covered

The activities covered under this HASP are limited to the following:

- Management of environmental investigation
- Environmental Monitoring
- Collection of samples
- Management of excavated soil and fill.

# 4.0 Work Area Access and Site Control

The contractor(s) will have primary responsibility for work area access and site control.

# 5.0 Potential Health and Safety Hazards

This section lists some potential health and safety hazards that project personnel may encounter at the project site and some actions to be implemented by approved personnel to control and reduce the associated risk to health and safety. This is not intended to be a complete listing of any and all potential health and safety hazards. New or different hazards may be encountered as site environmental and site work conditions change. The suggested actions to be taken under this plan are not to be substituted for good judgment on the part of project personnel. At all times, the Site personnel has responsibility for site safety and his or her instructions must be followed.

## *5.1 Hazards Due to Heavy Machinery*

**Potential Hazard:**
Heavy machinery including trucks, excavators, backhoes, etc will be in operation at the site. The presence of such equipment presents the danger of being struck or crushed. Use caution when working near heavy machinery.

**Protective Action:**
Make sure that operators are aware of your activities, and heed operator's instructions and warnings. Wear bright colored clothing and walk safe distances from heavy equipment. A hard hat, safety glasses and steel toe shoes are required.

*5.2 Excavation Hazards*

**Potential Hazard:**
Excavations and trenches can collapse, causing injury or death. Edges of excavations can be unstable and collapse. Toxic and asphyxiant gases can accumulate in confined spaces and trenches. Tasks that require working within the excavation will require air monitoring in the breathing zone (refer to Section 9.0).

Excavations left open create a fall hazard which can cause injury or death.

**Protective Action:**
Personnel must receive approval from the Project Manager to enter an excavation for any reason, and may require additional training. Subsequently, approved personnel are to receive authorization for entry from the Site personnel. Approved personnel are not to enter excavations over 4 feet in depth unless excavations are adequately sloped, shored or otherwise protected. Additional personal protective equipment may be required based on the air monitoring.

Personnel should exercise caution near all excavations at the site as it is expected that excavation sidewalls will be unstable.

Fencing and/or barriers accompanied by "no trespassing" signs should be placed around all excavations when left open for any period of time when work is not being conducted.

*5.3 Cuts, Punctures and Other Injuries*

**Potential Hazard:**
In any excavation or construction~~,~~ work site there is the potential for the presence of sharp or jagged edges on rock, metal materials, and other sharp objects. Serious cuts and punctures can result in loss of blood and infection.

**Protective Action:**
Serious injuries are to be reported immediately to the Project Manager. The Project Manager is responsible for making First Aid supplies available at the work site to treat minor injuries. Do not move seriously injured workers. All injuries requiring treatment are to be reported to the Project Manager.

*5.4 Injury Due to Exposure of Chemical Hazards*

**Potential Hazards:**
Volatile organic vapors from petroleum products, chlorinated solvents or other chemicals may be encountered during excavation activities at the project work site. Inhalation of high concentrations of organic vapors can cause headache, stupor, drowsiness, confusion and other health effects. Skin contact can cause irritation, chemical burn, or dermatitis.

**Protective Action:**
The presence of organic vapors may be detected by their odor and by monitoring instrumentation. Approved employees will not work in environments where hazardous concentrations of organic vapors are present. Air monitoring (refer to Section 9.0) of the work area will be performed at least every 60 minutes or more often using a Photoionization Detector (PID). Personnel are to leave the work area whenever PID measurements of ambient air exceed 25 ppm consistently for a 5 minute period. In the event that sustained total volatile organic compound (VOC) readings of 25 ppm is encountered personnel should upgrade personal protective equipment to Level C (refer to Section 8.0) and an Exclusion Zone should be established around the work area to limit and monitor access to this area (refer to Section 6.0).

*5.5 Injuries Due to Extreme Hot or Cold Weather Conditions*

**Potential Hazards:**
Extreme hot weather conditions can cause heat exhaustion, heat stress and heat stroke or extreme cold weather conditions can cause hypothermia.

**Protective Action:**
Precaution measures should be taken such as dress appropriately for the weather conditions and drink plenty of fluid. If personnel should suffer from any of the above conditions, proper techniques should be taken to cool down or heat up the body and taken to the nearest hospital if needed.

## 6.0 Work Zones

In the event that conditions warrant establishing various work zones (i.e., based on hazards - Section 5.4), the following work zones should be established:

**Exclusion Zone (EZ):**
The EZ will be established in the immediate vicinity and adjacent downwind direction of site activities that elevate breathing zone VOC concentrations to unacceptable levels based on field screening. These site activities include contaminated soil excavation and soil sampling activities. If access to the site is required to accommodate non-project related personnel then an EZ will be established by constructing a barrier around the work area (yellow caution tape and/or construction fencing). The EZ barrier shall encompass the work area and any equipment staging/soil staging areas necessary to perform the associated work. The contractor(s) will be responsible for establishing the EZ and limiting access to approved personnel. Depending on the condition for establishing the EZ, access to the EZ may require adequate PPE (e.g., Level C).

**Contaminant Reduction Zone (CRZ):**
The CRZ will be the area where personnel entering the EZ will don proper PPE prior to entering the EZ and the area where PPE may be removed. The CRZ will also be the area where decontamination of equipment and personnel will be conducted as necessary.

## 7.0 Decontamination Procedures

Upon leaving the work area, approved personnel shall decontaminate footwear as needed. Under normal work conditions, detailed personal decontamination procedures will not be necessary. Work clothing may become contaminated in the event of an unexpected splash or spill or contact with a contaminated substance. Minor splashes on clothing and footwear can be rinsed with clean water. Heavily

contaminated clothing should be removed if it cannot be rinsed with water. Personnel assigned to this project should be prepared with a change of clothing whenever on site.

Personnel will use the contractor's disposal container for disposal of PPE.

## 8.0 Personal Protective Equipment

Generally, site conditions at this work site require level of protection of Level D or modified Level D. However, air monitoring will be conducted to determine if up-grading to Level C PPE is required (refer to Section 9.0). Descriptions of the typical safety equipment associated with Level D and Level C are provided below:

**Level D:**
Hard hat, safety glasses, rubber nitrile sampling gloves, steel toe construction grade boots, etc.

**Level C:**
Level D PPE and full or ½-face respirator and tyvek suit (if necessary). [*Note: Organic vapor cartridges are to be changed after each 8-hours of use or more frequently.*]

## 9.0 Air Monitoring

According to 29 CFR 1910.120(h), air monitoring shall be used to identify and quantify airborne levels of hazardous substances and health hazards in order to determine the appropriate level of employee protection required for personnel working onsite. Air monitoring will consist at a minimum of the procedures described below. Site perimeter and community air monitoring and appropriate response actions will be implemented as described in the New York State Department of Health (NYSDOH) Generic Community Air Monitoring guidance.

The Air Monitor will utilize a photoionization Detector (PID) to screen the ambient air in the work areas for total Volatile Organic Compounds (VOCs) and a DustTrak tm Model 8520 aerosol monitor or equivalent for measuring particulates. Air monitoring of the work areas and EZ, if established, will be performed at least every 60 minutes or more often using a PID, and the DustTrak meter.

If sustained PID readings of greater than 25 ppm are recorded in the breathing zone in the work area or EZ, work should be temporarily ceased and personnel are to leave the work area until satisfactory readings are obtained, the source of vapors identified and addressed through corrective actions or approved personnel may re-enter the work areas wearing at a minimum a ½ face respirator with organic vapor cartridges for an 8-hour duration (i.e., upgrade to Level C PPE). Organic vapor cartridges are to be changed after each 8-hours of use or more frequently, if necessary.

If PID readings are sustained, in the work area, at levels above 50 ppm for a 5 minute average, work will be stopped immediately until safe levels of VOCs are encountered or additional PPE will be required (i.e., Level B).

If dust concentrations exceed the upwind concentration by 150 $\mu g/m^3$ (0.15 $mg/m^3$) consistently for a 10 minute period within the work area or at the downwind location, then LaBella personnel may not re-enter the work area until dust concentrations in the work area decrease below 150 $\mu g/m^3$ (0.15 $mg/m^3$), which may be accomplished by the construction manager implementing dust control or suppression measures.

## 10.0 Emergency Action Plan

In the event of an emergency, employees are to turn off and shut down all powered equipment and leave the work areas immediately. Employees are to walk or drive out of the Site as quickly as possible and wait at the assigned 'safe area'. Follow the instructions of the Site personnel.

Employees are not authorized or trained to provide rescue and medical efforts. Rescue and medical efforts will be provided by local authorities.

## 11.0 Medical Surveillance

Medical surveillance will be provided to all employees who are injured due to overexposure from an emergency incident involving hazardous substances at this site.

## 12.0 Employee Training

Personnel who are not familiar with this site plan will receive training on its entire content and organization before working at the Site.

Individuals involved with the investigation must be 40-hour OSHA HAZWOPER trained with current 8-hour refresher certification.

# Table 1
## Exposure Limits and Recognition Qualities

| Compound | PEL-TWA (ppm)(b)(d) | TLV-TWA (ppm)(c)(d) | STEL (ppm)(b) | LEL (%)(e) | UEL (%)(f) | IDLH (ppm)(g)(d) | Odor | Odor Threshold (ppm) | Ionization Potential |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 750 | 500 | NA | 2.15 | 13.2 | 20,000 | Sweet | 4.58 | 9.69 |
| Anthracene | .2 | .2 | NA | NA | NA | NA | Faint aromatic | NA | NA |
| Benzene | 1 | 0.5 | 5 | 1.3 | 7.9 | 3000 | Pleasant | 8.65 | 9.24 |
| Benzo (a) pyrene (coal tar pitch volatiles) | 0.2 | 0.1 | NA | NA | NA | 700 | NA | NA | NA |
| Benzo (a)anthracene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (b) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (g,h,i)perylene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (k) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA | NA | NA | NA | NA | 10.88 |
| Carbon Disulfide | 20 | 1 | NA | 1.3 | 50 | 500 | Odorless or strong garlic type | .096 | 10.07 |
| Chlorobenzene | 75 | 10 | NA | 1.3 | 9.6 | 2,400 | Faint almond | 0.741 | 9.07 |
| Chloroform | 50 | 2 | NA | NA | NA | 1,000 | ethereal odor | 11.7 | 11.42 |
| Chrysene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethylene | 200 | 200 | NA | 9.7 | 12.8 | 400 | Acrid | NA | 9.65 |
| 1,2-Dichlorobenzene | 50 | 25 | NA | 2.2 | 9.2 |  | Pleasant |  | 9.07 |
| Ethyl Alcohol | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | 100 | 100 | NA | 1.0 | 6.7 | 2,000 | Ether | 2.3 | 8.76 |
| Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropyl Alcohol | 400 | 200 | 500 | 2.0 | 12.7 | 2,000 | Rubbing alcohol | 3 | 10.10 |
| Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 500 | 50 | NA | 12 | 23 | 5,000 | Chloroform-like | 10.2 | 11.35 |
| Naphthalene | 10, Skin | 10 | NA | 0.9 | 5.9 | 250 | Moth Balls | 0.3 | 8.12 |
| n-propylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phosphoric Acid | 1 | 1 | 3 | NA | NA | 10,000 | NA | NA | NA |
| Polychlorinated Biphenyl | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Potassium Hydroxide | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| p-Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethane | NA | NA | NA | NA | NA | NA | Sweet | NA | NA |
| Toluene | 100 | 100 | NA | 0.9 | 9.5 | 2,000 | Sweet | 2.1 | 8.82 |
| Trichloroethylene | 100 | 50 | NA | 8 | 12.5 | 1,000 | Chloroform | 1.36 | 9.45 |
| 1,2,4-Trimethylbenzene | NA | 25 | NA | 0.9 | 6.4 | NA | Distinct | 2.4 | NA |
| 1,3,5-Trimethylbenzene | NA | 25 | NA | NA | NA | NA | Distinct | 2.4 | NA |
| Vinyl Chloride | 1 | 1 | NA | NA | NA | NA | NA | NA | NA |
| Xylenes (o,m,p) | 100 | 100 | NA | 1 | 7 | 1,000 | Sweet | 1.1 | 8.56 |
| ***Metals*** | | | | | | | | | |
| Arsenic | 0.01 | 0.2 | NA | NA | NA | 100, Ca | NA | NA | NA |
| Cadmium | 0.2 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | 1 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | 0.05 | 0.15 | NA | NA | NA | 700 | NA | NA | NA |
| Mercury | 0.05 | 0.05 | NA | NA | NA | 28 | NA | NA | NA |
| Selenium | 0.2 | 0.02 | NA | NA | NA | Unknown | NA | NA | NA |

(a) Skin = Skin Absorption
(b) OSHA-PEL Permissible Exposure Limit (flame weighted average, 8-hour): NIOSH Guide, June 1990
(c) ACGIH – 8 hour time weighted average from Threshold Limit Values and Biological Exposure Indices for 2003.
(d) Metal compounds in mg/m3
(e) Lower Exposure Limit (%)
(f) Upper Exposure Limit (%)
(g) Immediately Dangerous to Life or Health Level: NIOSH Guide, June 1990.

**Notes:**
1. All values are given in parts per million (PPM) unless otherwise indicated.
2. Ca = Possible Human Carcinogen, no IDLH information.

# APPENDIX H
# SITE MANAGEMENT FORMS

**Summary of Green Remediation Metrics for Site Management**

Site Name: _____ Site Code: _____
Address: _____ City: _____
State: _____ Zip Code: _____ County: _____

**Initial Report Period (Start Date of period covered by the Initial Report submittal)**
Start Date: _____

**Current Reporting Period**
Reporting Period From: _____ To: _____

**Contact Information**
Preparer's Name: _____ Phone No.: _____
Preparer's Affiliation: _____

**I. Energy Usage:** Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

| | **Current Reporting Period** | **Total to Date** |
|---|---|---|
| Fuel Type 1 (e.g. natural gas (cf)) | | |
| Fuel Type 2 (e.g. fuel oil, propane (gals)) | | |
| Electricity (kWh) | | |
| **Of that Electric usage, provide quantity:** | | |
| Derived from renewable sources (e.g. solar, wind) | | |
| **Other energy sources** (e.g. geothermal, solar thermal (Btu)) | | |

*Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.*

**II. Solid Waste Generation:** Quantify the management of solid waste generated on-site.

| | **Current Reporting Period (tons)** | **Total to Date (tons)** |
|---|---|---|
| **Total waste generated on-site** | | |
| OM&M generated waste | | |
| **Of that total amount, provide quantity:** | | |
| Transported off-site to landfills | | |
| Transported off-site to other disposal facilities | | |
| Transported off-site for recycling/reuse | | |
| Reused on-site | | |

*Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.*

**III. Transportation/Shipping:** Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

| | **Current Reporting Period (miles)** | **Total to Date (miles)** |
|---|---|---|
| Standby Engineer/Contractor | | |
| Laboratory Courier/Delivery Service | | |
| Waste Removal/Hauling | | |

*Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.*

**IV. Water Usage:** Quantify the volume of water used on-site from various sources.

| | **Current Reporting Period (gallons)** | **Total to Date (gallons)** |
|---|---|---|
| Total quantity of water used on-site | | |
| **Of that total amount, provide quantity:** | | |
| Public potable water supply usage | | |
| Surface water usage | | |
| On-site groundwater usage | | |
| Collected or diverted storm water usage | | |

*Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.*

**V. Land Use and Ecosystems:** Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

| | **Current Reporting Period (acres)** | **Total to Date (acres)** |
|---|---|---|
| Land disturbed | | |
| Land restored | | |

*Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.*

| **Description of green remediation programs reported above**<br>(Attach additional sheets if needed) |
|---|
| Energy Usage: |
| Waste Generation: |
| Transportation/Shipping: |
| Water usage: |
| Land Use and Ecosystems: |
| Other: |

| **CERTIFICATION BY CONTRACTOR** |
|---|
| I, _____ (**Name**) do hereby certify that I am _____ (**Title**) of the Company/Corporation herein referenced and contractor for the work described in the foregoing application for payment. According to my knowledge and belief, all items and amounts shown on the face of this application for payment are correct, all work has been performed and/or materials supplied, the foregoing is a true and correct statement of the contract account up to and including that last day of the period covered by this application.<br><br>_____<br>**Date** **Contractor** |

# APPENDIX I

# REMEDIAL SYSTEM OPTIMIZATION TABLE OF CONTENTS

REMEDIAL SYSTEM OPTIMIZATION FOR FORMER CORNING HOSPITAL AND RELATED PARCELS

TABLE OF CONTENTS