UTILITY LOCATION- HYDRO EXCAVATION WORK PLAN

PROJECT

SEAWALL ISLAND UTILITY EXCAVATION
WATERTOWN, NY

CLIENT

National Grid
Nick Rupert
Watertown, NY

PREPARED BY

National Response Corporation, NRC
6392 Deere Rd.
Syracuse, NY 13206

April 9, 2020

CERTIFICATION STATEMENT

I, Danielle S. Benati, certify that I am currently a NYS registered professional engineer and that this Excavation Work 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).

Danielle S. Benati P.E.
(NYS License No 093211)

DATE: April 10, 2020

TABLE OF CONTENTS

Attachments

SECTION 1
HYDRO EXCAVATION OVERVIEW

1.1 SITE BACKGROUND

NRC has been briefed in the historical background of the site and was provided with a list of contaminants of concern including: Acetone, Naphthalene, Toluene, Phenol, Benzo(B)Flouranthene, Benzo(A)Pyrene, Benzo(K)Fluoranthene, Benz(A)Anthracene, Chrysene, Dibenz(A,H)Anthracene, indeno(1,2,3-cd)pyrene, Chromium, Copper, Lead and Zinc. Previously IRM's have removed drums and associated VOC contamination. Contamination remaining beneath the 2' soil cover in the area to be excavated by NRC on behalf of National Grid consist of heavy metals and PAH's. All of NRC's personnel will be OSHA 40 Hour HAZWOPER certified and versed in proper PPE to protect themselves from the sites historical known contaminants.

1.2 PROJECT OVERVIEW AND SEQUENCING

Per National Grid Direction, NRC will perform a hydro excavation of a pre-determined location on the Seawall Island property for the reason of exposing buried utility lines. The excavation will be in the location as described in Attachment 1. Due to the short time frame allocated for project implementation, this is a working document and will be updated as needed during construction.

NRC proposes to complete the remedial objectives in the following general sequence:

- Contact Dig Safe (811) and wait for all utilities to clear.
- Equipment and Personnel Mobilization.
- Lay out the excavation area per National Grid field oversight.
- Establish temporary stockpile area.
- Establish temporary silt fence
- Hydro Excavate previously identified area to expose utility lines.
- Excavate and slope area to provide safe work practices in the open excavation.
- Re-use previously excavated material to backfill excavation.
- Grade out backfilled surface to match existing elevations.

SECTION 2
TECHNICAL APPROACH

2.1 MOBILIZATION & SITE PREPARATION

Mobilization

Upon NYSDEC approval of the initial submittals, NRC will mobilize needed personnel, materials and equipment to the site. All site personnel will be trained on site specific hazards and the application of the Site Specific Health and Safety Plan as part of this task. All mobilization efforts will be closely coordinated with National Grid representatives.

Equipment List
NRC will stage the needed equipment and materials in designated areas. At a minimum, NRC will mobilize the following equipment (or equivalent) to the site for the project:

- (1) Hydro-Excavation Truck
- (1) Spill Response Vehicle
- (1) Pick-Up Truck
- (1) Skid Steer
- (1) Tow Behind Pressure Washer
- (1) Photoionization Meter (PID)

Site Preparation
NRC will set-up cone barriers to prevent anyone other than authorized workers into the immediate work area. Upon final clearance from UFPO NRC in conjunction with National Grid NRC will hydro excavate to expose the buried utility line.

Utility Clearances / Investigation/ Capping
NRC will coordinate with Dig Safe NY to mark all existing on-site utilities upon approval of this excavation plan.

Erosion and Sediment Controls

We expect excavation and backfill activities to last only one day, if the project runs any longer than one day silt fence will be installed around soil stockpile areas when needed. Stockpiles will be covered during periods of rain, and over the weekends. The stockpile covers will be inspected to ensure there are no tears, and that the anchors are still in place and effective.

2.2 EXCAVATION OF IMPACTED SOILS

Waste Characterization
No waste sampling or characterization will be necessary for this project as all removed material will be re-used to backfill the excavation to grade.

Surface and Impacted Soils Excavation
The surface soils will be excavated to an estimated 2 feet deep and temporarily stockpiled onsite as clean over burden, the next 12'' is considered contaminated with historical site contaminants as identified in Section 1.1 to expose the buried utility line. Clean overburden surface soils removed from the first two feet of the excavation will be stockpiled and segregated from the potentially contaminated soils for the duration of the work.

During excavation activities, NRC will utilize a PID meter to monitor VOC's in the work area environment as outlined in the NRC Site Specific Health and Safety Plan.

Upon completion of National Grid's work NRC will install all previously excavated material in order removed into the excavation to grade. If for any reason the excavation cannot be backfilled the same day NRC will install temporary snow fence to prevent anyone from entering the open excavation. Construction cones and signs will delineate an area outside of the fenced in excavation as an added layer of protection.

Soil Transfer to Stockpiles
All soil stockpiles will have silt fence, placed around them, will be placed on poly sheeting and will be covered prior to the site being closed each night or prior to any rain event. Stockpiles will be covered with 6-mil poly or tarps, overlapped 2-feet at the seams. Heavy-duty sandbags or tires will be used to anchor and secure the poly sheeting in place.

2.3 WASTE TRANSPORTATION AND DISPOSAL

There will be no transportation or disposal of any site soils, all excavated soils will be re-used to backfill the excavation onsite.

2.4 DEWATERING

Excavation Dewatering
NRC expects to encounter no groundwater during this excavation or project, the project is expected to be one day in duration and will not be scheduled during inclement weather.

Surface Water Control
NRC expects to not encounter any surface water during the excavation and project, the project is expected to be one day in duration and will not be scheduled during inclement weather. Should a rain event occur, as discussed above, NRC would cover all stockpiles with poly sheeting for the remainder of the work.

2.6 SITE RESTORATION

Final Site Grading
Once the utility work is complete by National Grid, NRC will backfill the excavation to the current grade. Onsite material will be carefully placed back into the excavation in the same order from which they were removed. The excavated underlying soils (or potentially contaminated soils) will be returned back into the excavation first. The clean overburden soil cover material will be placed in the remainder of the excavation to bring grades back to normal.

2.7 DEMOBILIZATION

Decommissioning and Cleaning Hydro Excavation Equipment
Upon completion of the utility repairs and while backfilling operations are continuing NRC will rinse the hydro excavation trucks tank with a minimal amount of water into the open excavation to ensure a clean vessel for future usage.

Removal of Temporary Silt Fence
If installed temporary site silt fence will be removed upon completion of work, and removal of all soil stockpiles.

Decontamination of Site Equipment
The site equipment will be dry decontaminated to the extent possible. All soil and debris will be removed from the equipment tires and tracks using hand tools.

Attachment-1
Proposed Excavation Location Map and Details


Water St
Water St
Black River
Pearl St
Sewalls Island
Black River
283
Factory St
Huntington St
Proposed Excavation Area
The Broken String
Takeout available
Lee St