FINAL ENGINEERING REPORT

WORK ASSIGNMENT D007622-29.1

COLD SPRING FORMER MGP
SITE NO. 340026
COLD SPRING, PUTNAM COUNTY, NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Acting Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:
URS Corporation
257 West Genesee St. Suite 400
Buffalo, New York 14202

March 2017

CERTIFICATIONS

I, Randolph West, certify that I am currently a NYS registered professional engineer, I had direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Plans and Specifications were implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Plans and Specifications, as described herein.

The data submitted to DER demonstrates that the remediation requirements set forth in the Remedial Plans and Specifications and all applicable statutes and regulations have been achieved in accordance with the time frames, if any, established in the Plans and Specifications.

All use restrictions, institutional controls, engineering controls and/or any operation and maintenance requirements applicable to the site will be contained in an environmental easement created and recorded pursuant to ECL 71-3605 and that any affected local governments, as defined in ECL 71-3603, will be notified when such easement is recorded.

A Site Management Plan will be submitted for the continual and proper operation, maintenance, and monitoring of any engineering controls employed at the site including the proper maintenance of any remaining monitoring wells, and that such plan will be approved by DER.

Respectfully submitted,

Registered Professional Engineer
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URS Corporation – New York
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9/13/17
Date

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LIST OF ACRONYMS

ACM	Asbestos Containing Material
ADT	Aquifer Drilling and Testing
AMP	Air Monitoring Plan
BGS	below grade surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAMP	Community Air Monitoring Program
CAP	Contractor's Application for Payment
CHG&E	Central Hudson Gas and Electric
CO	Change Order
COC	chain of custody
cy	cubic yard
DAR	Design Analysis Report
DNAPL	Dense Non-Aqueous Phase Liquid
DTM	Digital Terrain Model
DVD	Digital Video Disc
DUSR	Data Usability Summary Report
EPA	Environmental Protection Agency
EPP	Environmental Protection Plan
ERC	Environmental Recovery Corporation of Pennsylvania
FCM	Field Clarification Memo
FER	Final Engineering Report
HASP	Health and Safety Plan
IC	Institutional Control
IDW	Investigation Derived Waste
L	liter
mg	milligram
ND	non-detect
NTU	nephelometric turbidity units
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OSHA	Occupational Safety and Health Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCO	Proposed Change Order
PID	photoionization detector
ppm	parts per million
psi	pounds per square inch
QAPP	Quality Assurance/ Project Plan
RAOs	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
RFI	Request for Information
ROD	Record of Decision
SAP	Sampling and Analysis Plan
SCO	Site Cleanup Objective
SMP	Site Management Plan
SSP	Site Security Plan

SVOCs	semi-volatile organic compounds
T&M	time and materials
TAL	target analyte list
TAT	turnaround time
TCL	target compound list
TCLP	Toxicity Characteristic Leaching Procedure
TCS	temporary containment structure
UCS	unconfined compressive strength
URS	URS Corporation
USCS	Unified Soil Classification System
V	Volt
VGAC	vapor phase granular activated carbon
VMS	vapor management system
VOCs	volatile organic compounds

1.0 BACKGROUND AND SITE DESCRIPTION

The Cold Spring Former Manufactured Gas Plant (MGP) site is located at 5 New Street in the Village of Cold Spring, Putnam County, New York. The site occupies a portion of a real estate parcel owned by the Village of Cold Spring. The western portion of the parcel was leased to the Cold Spring Boat Club. The Boat Club building was the only structure on the parcel. A gravel parking lot serving the Hudson House River Inn was also located on that parcel, just east of the former Boat Club building location. The former MGP itself (approximately 0.2 acres) underlied a portion of that parking lot and the grass-covered area directly to the east. Along the southern site boundary, outcropping rock is exposed, with no soil cover. Soil thicknesses increased steadily to the north and west. The soils on the northern side of the site consisted of historic fill material to a depth of 11-13 feet, primarily consisting of a mixture of building debris, wood fragments, and loose soils which were placed on the site during historic times to level the site for development. The fill was underlain by a clay layer which appeared to be at least 15 feet thick, which in turn overlied the bedrock. Most of the contamination related to the former MGP was contained in the fill material. Most of the movement of site contaminants had also occurred in this unit, since the underlying clay and bedrock were far less permeable. Both groundwater and surface water generally flowed from the northeast to the southwest, toward the Hudson River.

The principal waste product produced at the former MGP site was coal tar, which is an oily, dark colored liquid with a strong, objectionable odor. Unlike most materials labeled as “tar”, this is not a semi-solid, viscous material. Rather, it has a physical consistency similar to motor oil, which enables it to move through the subsurface. Coal tar is referred to as a dense non-aqueous phase liquid or DNAPL since it is slightly heavier than water and will not readily dissolve in water. When released into the subsurface, it will sink through the groundwater until it reaches some less permeable material which it cannot penetrate. It can, under certain conditions, move laterally away from the point where it was initially released. The tar is not a listed hazardous waste. It contains high levels of volatile and semi-volatile organic compounds (VOCs and SVOCs). The principal VOCs are benzene, toluene, ethylbenzene, and xylenes (BTEX). These compounds, collectively known as BTEX, are slightly soluble in water. Groundwater which comes into contact with tar or tar-contaminated soils will become contaminated with BTEX compounds. This contaminated groundwater can then move through the subsurface along with the ordinary groundwater flow. The principal SVOCs in the tar are a group of compounds known as polycyclic aromatic hydrocarbons, commonly abbreviated as PAHs. PAH compounds are generally less soluble than BTEX, and are consequently less likely to dissolve in groundwater. This makes PAH compounds less mobile in the subsurface, so the highest levels of PAHs are normally found

in close proximity to the tar from which they are derived. The specific semivolatile organic compounds of concern in soil and groundwater are the following polycyclic aromatic hydrocarbons (PAHs): acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, chrysene, fluoranthene, fluorine, indeno(1,2,3-cd) pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene.

Tar was found as a discrete substance - as visible droplets or pools of liquid - in the vicinity of the subsurface remains of the former MGP structures. From the structures, tar migrated downward to the underlying clay, and was seen throughout this interval near the structures.

Several investigations were conducted at the site for the purposes of site classification and to develop the basis of the remedial design. The results of those investigations are contained in the following reports:

- Site Characterization Report, NYSDEC, July 2005.
- Site Investigation/Remedial Alternatives Report, Dvirka and Bartilucci, 2009
- Site Characterization Report, Groundwater and Environmental Services, Inc. (GES), 2013
- Pre-Design Investigation Soil Boring Program Report, URS, February, 2014
- Pre-Design Investigation Report, URS, September, 2014
- Pre-Design Geotechnical Summary Report, URS, September 2014. (URS performed an initial pre-design site investigation in April 2013, followed by a subsequent investigation in April 2014 to collect additional data specifically related to the design of an excavation support system.)

On February 11, 2015, URS conducted an asbestos survey of the Boat Club Building using protocols outlined in the U.S. EPA Asbestos Hazard Emergency Response Act (AHERA) and 12 NYCRR Part 56. No ACM was identified in the Building.

This Final Engineering Report (FER) has been prepared for the New York State Department of Environmental Conservation (NYSDEC) under Task 4 of Work Assignment D007622-29.1. The remedial design was prepared for the NYSDEC under Work Assignment D007622-12. Under this contract, URS was tasked to design a remediation to address soil contamination at the Cold Spring MGP site in accordance with the February 2010 Record of Decision (ROD), as expanded. The design included preparation of a Design Analysis Report (DAR) and Contract Specifications and Drawings for soil excavation and disposal. Drawings

and specifications were prepared and issued as part of a bid package to remedial Contractors after the DAR was submitted and approved by the NYSDEC.

URS provided full-time inspection during remedial construction activities. One inspector evaluated contractor performance for conformance with the Contract Documents, prepared daily inspection reports (including site photos as necessary), ran project meetings, and maintained records of requests for information and proposed change orders. Per the Department's request, a second inspector provided inspection services in order to address any potential odor issues/complaints arising during soil excavation activities and to provide additional oversight of the excavation. URS reviewed contractor submittals for compliance with the Contract Documents. URS also prepared change orders and reviewed contractor invoices.

URS has developed this Final Engineering Report (FER) in accordance with the requirements of NYSDEC DER-10 to document implementation of the completed remedial action.

Appendices are attached and/or provided on an accompanying digital video disc (DVD). The Appendices are as follows:

- Appendix A presents the existing environmental easement survey for the site. A new environmental easement is forthcoming.

- Appendix B provides the daily inspection reports including site photographs and project progress meeting minutes.

- Appendix C provides the laboratory analytical results for topsoil sampling, backfill sampling, decontamination pad sampling, wastewater sampling, Geoprobe ® sampling, compliance sampling, and waste characterization sampling.

- Appendix D provides the Data Usability Summary Report (DUSR) for the compliance samples, Geoprobe ® samples, and decontamination pad samples collected onsite.

- Appendix E provides the Air Monitoring, Weather, Vibration Monitoring, and Noise Monitoring Data collected onsite.

- Appendix F presents the disposal tickets/manifests for the waste streams for the project.

- Appendix G provides the waste transporter and disposal facility permits

- Appendix H provides the weight tickets for materials imported to the site.

- Executed Change Orders and individual Proposed Change Orders with responses are included in Appendix I.

- Boring Logs, Well Construction Diagrams, Well Development Logs, and Field Calibration Reports from the monitoring well installation onsite are included in Appendix J. Boring Logs and Chains of Custody from the Geoprobe ® sampling completed onsite are also included in Appendix J.

- Final Record Drawings for the project, provided by the Contractor and stamped by a Professional Engineer Licensed in the State of New York are included in Appendix K.

- The Contract Documents for the project that were put out to bid are included in Appendix L.

- The approved Submittals for the project, Field Orders and Field Clarification Memos (FCMs) sent during the completion of the project, and Requests for Information (RFIs) received from the Contractor during the completion of the project with URS' responses are included in Appendix M.

- The weekly settlement, crack, and vibration monitoring reports completed for the project are included in Appendix N.

- The weekly vapor management system (VMS) reports completed for the project and VMS data are included in Appendix O.

- The weekly water treatment reports for the project are included in Appendix P.

This FER provides background information on the site remedy and the remedial action objectives of the project. The presentation of remedial activities includes a discussion on the remediation conducted as compared to the Work Plan(s); identify deviations or re-designs from the Work Plan(s); present drawings for completed remediation; and document and compare any performance-based or confirmation samples collected with appropriate cleanup criteria. URS will submit draft and final versions of the FER to the Department. This FER is certified by a P.E. licensed in the State of New York.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of investigations performed at the Site, the following Remedial Action Objectives (RAOs) were identified.

2.1.1 RAOs

The Remedial Action Objectives (RAOs) identified in the February 2010 Record of Decision (ROD), include the removal and off-site disposal of the following materials: All soil east of the boat club building and south of New Street that

- contains visible coal tar, or
- is contaminated with 500 ppm or more total polycyclic aromatic hydrocarbons (PAHs).

The RAOs also include also the removal, to the extent practicable, of soil that exceeds the restricted residential clean-up criteria of Part 375-6.

In October 2013, the NYSDEC agreed to the request by the Village of Cold Spring that the selected remedy presented in the February 2010 ROD be expanded to also include demolition of the boat house building and removal of contamination beneath the boat house. The revised remedy was referred to as the "expanded selected remedy."

2.2 Description of Selected Remedy

The site was remediated in accordance with the remedy selected by the NYSDEC in the ROD dated February 2010 and the expanded selected remedy, approved by NYSDEC in October 2013.

The contamination source area and the contamination below the boat house were to be excavated as part of the ROD remedy. The contamination source area, located east of the boat house, included soil contaminated by coal tar as well as subsurface MGP structures and piping. The boat house had to be demolished to allow excavation of the contaminated soil from below it. The demolition debris was to be disposed of off-site.

To the degree possible, the excavation was to be carried out under a temporary structure with a vapor management system in order to control odors and vapors. Areas that could not be covered by the temporary structure were excavated using odor suppressant foam.

The material removed was to be transported offsite for disposal at an appropriately permitted treatment and/or disposal facility to be identified by the Contractor.

Following excavation, the site was to be backfilled with clean, granular backfill that was structurally suitable for potential future site development.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Boat house demolition
2. Relocation of Existing Utilities
3. Installation of excavation support system
4. Initial excavation of contaminated soil using odor suppressant foam
5. Backfill of the Initial Excavation Area with stabilized backfill
6. Installation of temporary containment structure (TCS) and vapor management system (VMS)
7. Excavation of remaining contaminated soil and below-grade MGP structures
8. Disposal of contaminated materials
9. Collection of post-excavation documentation and confirmation samples
10. Backfill with clean fill
11. Removal of temporary containment system, air handling unit, and soil bracing system.
12. Final restoration

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS, AND REMEDIAL CONTRACTS

3.1 Interim Remedial Measures

There were no interim remedial measures performed at this site.

3.2 Operable Units

There were no operable units identified at this site.

3.3 Remedial Contracts

3.3.1 Remedial Action

URS was responsible for the design and construction oversight of the remediation construction under Work Assignments D007622-12 and D007622-29.1, respectively. URS acted as Engineer for NYSDEC in preparation and administration of the Contract Documents for the Construction Contractor.

3.3.1.1 Bid Process and Contract Information

NYSDEC and URS conducted the Pre-Bid Meeting on June 10, 2015, which was attended by representatives of 47 companies; the meeting is documented in Addendum 3 to the Contract Documents, contained in Appendix L. The deadline for bids was set at 1:00 PM on June 25, 2015. Six companies submitted qualified bids, as shown on the Bid Tabulation in Table 1. The winning bid was submitted by Watermark Environmental Incorporated (Watermark) of Lowell, Massachusetts, who was then contracted to perform the remediation work under Contract No. D009635, with a contract price of $2,912,614.06. The effective date of the contract was September 14, 2016, and Watermark was given Notice to Proceed as of October 4, 2016. The original Substantial and Final Completion Dates for the project were April 1, 2016 and May 1, 2016, respectively. The complete executed Contract Documents are included as Appendix L, excluding Change Orders, which are discussed below.

3.3.1.2 Change Orders

Two Change Orders (COs) were processed for Contract No. D009635:

- CO-1 was processed for a net addition of $256,869.53 to the contract price. CO-1 addressed five Proposed Change Orders (PCOs): PCO-0001, for the mobilization of additional vibration monitors to the site; PCO-0002, for soil sampling via Geoprobe ®; PCO-0003, for installation of permanent power to the site; PCO-0005, for mobilization of jersey barriers to the site, and PCO-0006 for pre-excavation of the sheet piling trench and rock transportation and disposal. CO-1 also added a contract time extension, setting a new Substantial Completion Date of April 29, 2016 and Final Completion Date of May 29, 2016.

- CO-2 was processed for a net addition of $459,112.69 to the contract price. CO-2 addressed PCO-004, for a time extension due to encountering hazardous soil onsite; PCO-007A/007B, for excavating, transporting and disposing of oversized rock encountered onsite; PCO-008 for a credit due to the Department for Watermark not relocating the temporary containment structure; PCO-009 for the cost of having to use alternate equipment to install the sheet piling; PCO-010 for the additional excavation in the Geoprobe® sampling area; PCO-011 for additional costs associated with the installation of the tieback anchors, fabrication of a middle waler for the sheet pile wall, and a credit due to the Department for Watermark not installing portions of the waler in the Contract; and PCO-012 for the time and materials cost of using the oversized rock as backfill material. Credits due to the Department from unused items from the Original Contract and Executed Change Orders are also included in Change Order No. 2. CO-2 also added a contract time extension, setting a new Substantial Completion Date, May 17, 2016 and a new Final Completion Date, June 16, 2016.

- CO-3 was processed for no addition to the contract price. The Contractor was contractually obligated to reach Final Completion by June 16, 2016 as a result of Change Order No. 2. The Contractor actually reached Substantial Completion on July 15, 2016 and Final Completion on August 12, 2016. In order to enable the Contractor to invoice for work completed after June 16, 2016, CO-3 was prepared as a no-cost time extension to the Contract. CO-3 set a

new Substantial Completion Date, July 15, 2016 and a new Final Completion Date, August 14, 2016.

The executed COs are included in Appendix I. A complete cost report for the Contract is given in Table 2.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the URS-Approved Plan of Operations and Construction Phasing Work Plan (Work Plan) prepared by Watermark (final revision dated November 5, 2015). All deviations from the Design Analysis Report, Plans and Specifications are noted herein.

4.1 Governing Documents

4.1.1 Health and Safety Plan

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including site and worker safety requirements mandated by the Federal Occupational Safety and Health Administration (OSHA) and the site-specific (final) Health and Safety Plan (HASP) dated November 4, 2015. Watermark complied with the HASP during all remedial and invasive work performed at the Site. Watermark employed a full-time Health and Safety Officer during the remedial construction.

URS performed construction oversight for the remediation under their own HASP dated November 2005. Both Health and Safety Plans are included in Appendix M.

4.1.2 Community Air Monitoring Plan

Watermark prepared a Community Air Monitoring Plan (CAMP) to provide a measure of protection for workers and the surrounding community from potential airborne contaminant releases. This CAMP was implemented during all ground intrusive field activities. The CAMP is included in Appendix M. A complete Submittal Log is also included in Appendix M.

Monitoring equipment was calibrated on a daily basis in accordance with the manufacturer's calibration and quality assurance requirements. All instrument readings, field reference checks, and calibrations

were documented and recorded in a daily log. Periodic field checks were also conducted and documented, at least hourly, to verify the equipment is functioning properly. Damaged and/or malfunctioning equipment was immediately removed from service and replaced with a functioning unit. Preventative maintenance activities were conducted (when required) in accordance with the manufacturer's recommendations.

The Community Air Monitoring System consisted of four volatile organic compound (VOC)/ particulate monitoring stations and one meteorological station.

The meteorological station used was the Vantage Pro2®. It was capable of measuring wind speed, wind direction, relative humidity, dry bulb temperature, and barometric pressure and it was used to position the VOC/particulate monitoring equipment in the appropriate upwind and downwind locations.

A site plan is shown in Record Drawing C-001. One VOC/particulate monitoring station was placed upwind of the work area and three were placed downwind of the work area. The meteorological station supplemented the four VOC/particulate monitoring stations and recorded data 24 hours per day, 7 days per week. It was located on the concrete seawall at the western end of the site. One VOC/particulate monitoring station was placed near the meteorological station. It also recorded data 24 hours per day, 7 days per week. Both units operated on a combination of wind and solar power. A VOC/particulate monitoring station was also placed at the eastern end of the site near the vapor management system. It also operated on a combination of wind and solar power and recorded data 24 hours per day, 7 days per week. Two VOC/particulate monitoring stations were battery powered and logged data only during working hours. Each VOC/particulate monitoring station communicated wirelessly (via cloud technology) to a computer located in Watermark's office trailer. Each recorded measurements as well and sent alerts and signal alarms when action levels were exceeded.

VOCs were monitored using a RAE Systems, Inc. MiniRAE 2000® photoionization detector (PID) until November 13, 2015. Watermark switched to the MiniRAE 3000® PID on that date for the remainder of the project. Both models were capable of continuously measuring TVOCs from 0.1 to 15,000 parts per million (ppm) to provide real-time recordable air monitoring data in time-averaged concentrations.

TVOC monitoring was conducted continuously during working hours at two Stations and 24 hours per day at two Stations.

Action levels and VOC monitoring responses included:

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeded five ppm above background for the 15-minute average, work activities had to be temporarily halted and monitoring continued. If the total organic vapor level readily decreased (per instantaneous readings) below five ppm over background, work activities could resume with continued monitoring.

2. If the total organic vapor levels at the downwind perimeter of the work area or exclusion zone persisted at levels in excess of five ppm over background but less than 25 ppm, work activities had to be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities could resume provided that the total organic level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or resident/commercial structure, whichever was less, but in no case less than 20 feet, was below five (5) ppm over background for the 15-minute average.

3. If the organic vapor level was 25 ppm at the perimeter of the work area, activities had to be shutdown. All 15-minute readings were to be recorded and be available for State (NYSDEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes were also to be recorded.

Particulate monitoring was conducted continuously during working hours, throughout the duration of the field construction activities. Particulate monitoring was conducted for 24-hours per day at the Station located on the concrete seawall and the Station near the vapor management system on the eastern end of the site. Particulate monitoring was conducted continuously, during working hours at the other two Stations. Dust and particulate monitoring were conducted at one upwind (of the work area) perimeter and three locations at the downwind perimeter of the work area (four locations total).

Particulate air monitoring was conducted using the DustTrak® DRX Model 8533 Aerosol Monitors This instrument is equipped with an audible alarm, to indicate exceedances, and is capable of measuring particulate matter less than 10 micrometers in size (PM-10). It continually recorded emissions generated during field activities by calculating 15-minute average concentrations. Each particulate monitor automatically alerted the Health and Safety Officer (by either visual or audible alarm, and/or text message) to indicate high readings

that may lead to potential exceedance of work perimeter limits. The Health and Safety Officer would then then alert the site superintendent.

Action levels and particulate monitoring responses included:

1. If the downwind PM-10 particulate level was 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust was observed leaving the work area, then dust suppression techniques had to be employed. Work may have continued with dust suppression techniques provided that the downwind PM-10 particulate levels do not exceed 150$\mu g/m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels were greater than 150 $\mu g/m^3$ above the upwind level, work had to be stopped and a reevaluation of activities initiated. Work could resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 $\mu g/m^3$ of the upwind level and in preventing visible dust migration.

3. All readings had to be recorded and be available for State (New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH)) and County Health personnel to review.

Periodic odor monitoring was conducted by the Health and Safety Officer at least hourly around the entire perimeter of the work area to monitor for MGP-related odors. Each perimeter check was documented with time and outcome of the check and included in a daily log. If odors were identified during the perimeter check, general location(s) of MGP-related odors were documented and the following actions were taken:

1. NYSDEC and Engineer were notified;

2. Work continued and additional odor, vapor, and dust controls were employed to abate emissions;

3. The situation was evaluated and, if necessary and appropriate, construction techniques were modified;

4. More frequent checks of the work area perimeter for MGP-related odors were implemented;

5. If MGP-related odors continued to be noticed at the perimeter of the work area, work was stopped and the Owner and Engineer were notified;

6. The source or cause of the MGP-related odors was identified;

7. The situation was evaluated and, if necessary and appropriate, construction techniques and/or methods to abate emissions were modified further; and

8. Work did not resume until authorized by the Owner.

In addition to odor monitoring, complaints from nearby residents about MGP-related odors were addressed during construction activities. If an odor complaint was received, the following actions were taken:

1. The Engineer was immediately notified of any odor complaints received from the public;

2. As appropriate, the legitimacy of the complaint was verified with the Engineer based on the work activities being performed at the site, the predominant wind direction, and other climatological factors;

3. Monitoring and employment of additional odor, vapor, and dust controls to abate emissions was continued;

4. The situation was evaluated and, if necessary and appropriate, construction techniques were modified.

Community Air Monitoring data was submitted to NYSDEC and NYSODH on a daily basis.

4.1.3 Sampling and Analysis Plan

Watermark prepared a Sampling and Analysis Plan (SAP), dated November 16, 2015. The SAP provided a basis for the required sampling and analyses performed in accordance with NYSDEC's DER-10 *Technical Guidance for Site Investigation and Remediation*. The SAP described the sample collection program, including the implementation of the field sampling activities, sample collection and management, analytical requirements, and chain-of-custody protocols for compliance soil samples, soil waste

characterization samples, decontamination pad samples, construction water samples, and backfill material samples.

4.1.3.1 Compliance Sampling

Post-excavation compliance soil samples were analyzed for BTEX by United Stated Environmental Protection Agency (USEPA) Method SW-846-8260C and Target Compound List (TCL) PAHs by USEPA Method SW-846-8270D. Duplicate samples were collected at a rate of one duplicate sample per 10 compliance samples collected. Samples selected for laboratory analysis were handled in accordance with Watermark's Standard Operating Procedures (SOPs) as presented in Watermark's Quality Assurance Project Plan (QAPP).

4.1.3.2 Waste Characterization Sampling

In accordance with the disposal facility requirements for City of Albany Solid Waste Management Facility (Rapp Road) and ESMI of NY. Inc. (Fort Edward), waste characterization samples were collected at a rate of one composite sample per every 1,000 tons of material leaving the Site. The waste characterization samples were analyzed for Full Toxicity Characteristic Leaching Procedure (TCLP) and polychlorinated biphenyls (PCBs). Composite samples were collected from three to four discrete locations prior to compositing. The sampling was conducted in accordance with Watermark's QAPP.

4.1.3.3 Decontamination Pad Sampling

After the decontamination pad was constructed, a single soil sample (Decon-1) was collected from underneath the pad. The sample was collected utilizing a previously decontaminated garden trowel or shovel. The sample was placed directly into laboratory supplied glassware and submitted under chain of custody to a New York Certified laboratory for analysis of BTEX and PAH compounds.

Following the removal of the decontamination pad, one additional soil sample (Decon-2) was collected from the area beneath the previously removed decontamination pad. The soil sample was collected utilizing the same techniques.

The analytical reports for the decontamination pad sample results are included in Appendix C. Both samples Decon-1 and Decon-2 contained PAH contaminants at concentrations slightly above the 6 NYCRR Subpart 375-6 Restricted Residential Use SCOs. The Total PAHs for both samples were significantly below the RAO of 500 ppm. BTEX was not detected in either sample.

4.1.3.4 Quality Assurance Sampling

Trip Blanks were included with each shipment of VOC vials for aqueous sampling. The Trip Blanks accompanied the VOC vials through all phases of shipment and sampling. They served to evaluate laboratory accuracy and field sampling techniques.

4.1.3.5 Construction Dewatering Sampling

Construction dewatering samples were initially collected pre- and post-treatment at a rate of one sample per 7,000 gallons of groundwater. Samples were analyzed for BTEX by USEPA Method SW-846-8260C, TCL PAHs by USEPA Method SW-846-8270D, and Target Analyte List (TAL) Metals by USEPA SW-846-6010B/7470A. Construction dewatering analytical data met the terms of the State Pollution Discharge Elimination System (SPDES) equivalent permit as described in Section 02140 of the Contract Documents prior to discharge to the Hudson River. Watermark was later granted permission decrease the frequency to one sample per 21,000 gallons of water and eliminate the TAL Metals analysis.

4.1.3.6 Backfill Sampling

Soil samples were collected from the virgin material at a rate of at least one characterization sample for each source and in accordance with the sampling frequency specified in DER-10, Table 5.4(e)10. The samples were submitted for the following analyses:

- TCL VOCs by USEPA Method SW-846-8260C
- TCL SVOCs by USEPA Method SW-846-8270D
- TAL Metals by USEPA Method SW-846-6010B/6020/7000 series
- TCL Pesticides by USEPA Method SW-846-8081A
- TCL PCBs by USEPA Method SW-846-8082A
- Chromium +6 by USEPA Method SW-846-7196A Total Cyanide by USEPA Method SW-846-9012A
- 2,4,5-TP Acid (Silvex) by USEPA Method SW-846-8151A

In addition to a full chemical analysis, as mentioned above, imported clean backfill was physically tested for soil classification in accordance with ASTM 2487 and particle size analysis in accordance with ATSM D422.

4.1.4 Quality Assurance Project Plan

Watermark prepared a Quality Assurance Project Plan (QAPP), dated January 8, 2016. The QAPP presented the organization, objectives, planned activities, and specific quality assurance/quality control (QA/QC) procedures associated with field sampling (to include collection of compliance, treated groundwater, waste characterization, decontamination pad, backfill, and quality assurance samples) and laboratory testing for the project. The QAPP described specific protocols for sample handling and storage, chain-of-custody, laboratory analysis, and data handling and management that was implemented by Watermark for the field sampling and the laboratory responsible for the sample chemical analysis. Watermark collected and handled samples in accordance with the QAPP during the completion of the project. The QAPP is included in Appendix M.

Data was validated by URS.

4.1.5 Environmental Protection Plan

Watermark prepared an Environmental Protection Plan (EPP), dated November 4, 2015. The EPP provided the environmental protective measures that were employed to control and mitigate potential pollution during activities associated with the impacted soil/building debris removal and site restoration during the project. This EPP addressed compliance with federal, state, and local regulations pertaining to the environment, including water, air, solid waste, oily substances, and noise pollution. The EPP is included in Appendix M.

Watermark provided sanitary facilities for use during construction. The sanitary facilities were regularly emptied and maintained during the course of completing the work.

Heavy construction equipment was operated at the site during the course of completing the work. The minimum amount of equipment necessary to complete work activities was operated, and idling equipment was kept to a minimum.

Oily or other hazardous substances were not discharged to the ground, drainage features, or local bodies of water. Refueling of construction equipment was performed in a manner so as to not allow spills or leaks. Fuel was delivered to the Site rather than stored onsite on an as needed basis. Spill control equipment was available on-site. Routine maintenance of construction equipment used on this project, including oil and greasing of equipment, was performed within the site boundary.

4.1.6 Traffic Management Plan

Watermark prepared a Traffic Management Plan dated November 4, 2015. This Plan outlined the safety measures that were employed to maintain and protect traffic and provide safety for workers and the general public during construction activities at the site. The Plan also outlined Temporary Construction Access, Staging Area Location and Operations, Haul Routes, Restrictions, and Hours of Operation. The Traffic Management Plan is included in Appendix M.

Watermark employed the following measures to control traffic onsite:

- The placement of temporary chain link fence secured the site from pedestrian traffic.

- Additional signs were placed prior to the Site along West Street and Market Street notifying of "Trucks Entering Highway".

- Flagmen were used to direct all trucks entering the project site. The trucks used the gated temporary construction entrance and were loaded and unloaded within the site boundaries.

- All trucks leaving the project site were inspected to ensure loads are properly covered and secured, and were properly decontaminated prior to exiting on the public roadway.

- Watermark ensured that appropriate signage and traffic barriers were provided. Construction vehicles stopped and yielded to public vehicles and pedestrians.

4.1.7 Site Security Plan

Watermark prepared a Site Security Plan (SSP) dated September 30, 2015. The purpose of (SSP) was to describe the site security procedures that were utilized during planned construction activities associated with the remediation of the site. The SSP is included in Appendix M.

Watermark employed the following measures for site security during the project:

- A six foot high project security fence was installed and maintained along the perimeter of the site boundary until all remediation and site restoration activities were completed. The temporary chain-link fence consisted of six foot tall pre-fabricated panels, with stands and mechanical joints connecting the panels.
- The intersection of West Street and New Street was utilized as the Site entrance and exit as depicted in the Contract Drawings.
- A chain-link fencing panel gate was installed at this location and was chained and locked at the end of each work day.
- Signs were installed at the entrances to the Site notifying visitors to sign in at the Watermark office trailer. Visitors were provided with safety orientation and escorted through the Site as needed.
- A log of all visitors entering and exiting the Project Site was maintained throughout the duration of the project.
- Persons without a valid OSHA 40-hour Health and Safety Training Certificate were not allowed within the remediation area.
- Persons not associated with the project were prohibited from entering the Project Site.
- No alcohol, firearms, or drugs (without prescription) were allowed on-site at any time.
- Signs were installed on the outside of the fence-line notifying public not to enter construction site. Watermark personnel maintained a log of all vehicles and equipment entering and exiting the Project Site.
- Site trailer(s) and conex box(s) were locked at the end of each work day.
- The perimeter fence-line was inspected and maintained by Site staff daily.

4.1.8 Demolition Plan

Watermark prepared a Demolition Plan dated October 26, 2015. The purpose of the Plan was to outline the demolition of the Boat Club structure onsite. The Demolition Plan is included in Appendix M.

Watermark performed the following tasks for the Boat Club Building Demolition:

- Utilities were disconnected, re-routed, purged, drained, and verified to be properly disconnected prior to initiation of demolition activities.

- Water and sewer lines were excavated and removed as per the Contract Drawings using the Komatsu® PC 210 LC excavator to carefully trace and remove the lines as necessary. Sections of utility lines remaining in place were properly capped at the locations specified on the Contract Drawings.

- Trees and shrubs were removed, if necessary, as indicated on the Contract Drawings. Signs, fence, fence posts, and post foundations were also removed as specified in the Contract Drawings.

- Concrete curb bumpers were temporarily removed, as shown in the Contract Drawings. The concrete curb bumpers were moved and stockpiled on the Site to protect them from damage by equipment and construction/demolition activities.
- Demolition started at the western corner of the structure (closest to the intersection of New St. and West St.) and work towards the rear corner (east corner). The building was demolished using the Komatsu® PC 210LC with a thumb attachment to grab and pull the structure down.
- All demolition related debris was loaded into on-site roll off containers and transported to a licensed offsite disposal facility.

4.1.9 Excavation, Filling and Grading Plan

Watermark prepared an Excavation, Filling, and Grading Plan dated October 26, 2015. The purpose of the Plan was to serve as a tool for managing outgoing and incoming material consisting of impacted soils, subsurface debris, imported clean fill material, and stabilized backfill (flowable fill) during the remediation activities at the site.

Watermark completed the excavation and backfilling at the site in the following sequence:

- Excavation (under odor suppressant foam) and backfilling and flowable fill placement outside the footprint of TCS locations 1 and 2, shown on Record Drawing C-005;
- Complete pre-trenching for sheet piling installation;
- Install sheet piling;
- Excavation for installation of upper waler;

- Install upper waler and tiebacks;
- Erect TCS at location 2;
- Excavation of contaminated soil/under TCS location 2
- backfilling of TCS location 2 excavation area;
- Disassemble TCS;
- Excavation of remaining contaminated soil/debris under odor suppressant foam;
- Backfilling of remaining excavation.

4.1.10 Dewatering and Water Treatment Work Plan

Watermark prepared a Dewatering and Water Treatment Work Plan dated November 6, 2016. The Plan described dewatering and water treatment services required during construction activities. Watermark also prepared an Addendum No.1 to the Dewatering and Water Treatment Work Plan where they described measures to pump the first 21,000 gallons of construction water pumped from the excavation to tanker trucks for offsite disposal. The Dewatering and Water Treatment Plan and Addendum No. 1 to the Plan are included in Appendix M.

Groundwater pumped from the excavation area was pumped directly into the on-site temporary treatment system for filtration, treatment, and eventual discharge into the Hudson River. The temporary water treatment system was capable of a flow rate up to 100 gal/min. The system consisted of a three-inch 110V electric submersible pump with float control and 200 feet of hard and lay-flat cam hose to move pumped groundwater from the excavations into an 18,100 gallon steel clarifying weir tank to allow large suspended solids to drop out. A second three inch 110V electric submersible pump with a float switch and 60 feet of cam hose was used to transfer groundwater from the weir tank through a BF100 bag filter unit with a 10 micron filter bag. The water was then sent through the bag filter section of a PF50 particulate filter, also with a 10 micron filter bag, before entering two MPC 13 reactive carbon vessels, and organoclay vessel, and discharging into three, 21,000 gallon effluent holding tanks. A MAG200 magnetic flow meter measured and recorded volume of water treated to determine sampling occurrences. Discharge of treated water from effluent holding tank into the Hudson River was completed following URS review of effluent sampling results to verify the treated groundwater met effluent limits set forth in the Contract Documents.

Watermark inspected dewatering equipment on a weekly basis. In addition, daily visual inspections occurred on all pumps, discharge lines, holding tanks, water flow monitors, and filter bags to ensure the equipment was functioning as intended. Leaks, blockages, and/or equipment failure were repaired immediately to ensure no project delays.

4.1.11 Transportation and Disposal Plan

Watermark prepared a Transportation and Disposal Plan dated November 20, 2016. The Plan was developed as a tool for managing all waste streams generated during the remediation activities at the site. The Transportation and Disposal Plan is included in Appendix M.

Transportation of materials off-site was conducted in accordance with all applicable federal, state, and local regulations. Watermark loaded out excavated material. The material was hauled off-site by Watermark's T&D subcontractor, Capitol Environmental Services, a licensed waste hauler. Transport vehicles were covered to prevent leakage and emissions of wastes. Vehicles hauling hazardous material were lined with disposable polyethylene truck liners as required by the disposal facility. These liners were placed in empty vehicles upon arrival to the Site.

All transport vehicles were marked in accordance with DOT regulations. The trucks were covered prior to leaving the Site. The waste hauling trucks were dry decontaminated, as necessary, prior to leaving the Site. Dry decontamination was primarily used instead of wet decontamination to avoid possible health and safety concerns caused by the potential for decontamination water to freeze during winter temperatures. Every effort was made to keep the trucks on clean, uncontaminated stone, while loading to minimize the exposure to contaminated soil. Special care was taken while loading trucks to eliminate contaminated material being spilled on the outside of the truck during loading.
If potentially contaminated soil and/or debris is spilled on the side of the truck while loading or, if the truck tires encounter potentially contaminated soil then wet decontamination, via a pressure washer, was implemented, as necessary. Watermark inspected all vehicles prior to leaving the site to confirm that adequate decontamination efforts have been performed. Watermark coordinated the schedule for truck arrival on-site and material deliveries at the disposal facilities as to not interfere with vehicle traffic on local roads.

4.1.12 Site Restoration Plan

Watermark prepared a Site Restoration Plan dated June 17, 2016. The Plan was developed to outline overall approach to restoring the site following the completion of remediation activities. The Site Restoration Plan is included in Appendix M.

Non-vegetative surface restoration at the site were restored as per Contract Drawings C-007 and D-001. Restoration included the import and regrading of gravel areas to meet the requirements of the Contract Documents. NYSDOT Subbase No. 4 (Item 304.14) was used to bring the site to the finished grade level with No. 2 Clean Gravel used as a top dressing as necessary. The restored gravel parking area in the eastern portion of the site included the replacement of curb bumpers removed during demolition activities to create a parking area in the eastern portion of the site.

Areas where pre-existing asphalt pavement was in place were restored in order to create proper driveway aprons and parking areas. These areas are as shown on Record Drawing POST-C-1 in the northwest portion of the site and along the Northern boundary of the site (along New Street). Prior to placement of permanent pavement any service boxes, manhole frames and covers, and similar structures within the area were adjusted to the established grade and cross-section. Edges of existing asphalt pavement were cut a minimum of one foot beyond the excavation or disturbed base whichever was greater. As per the Paved Parking/Driveway Apron Detail 5 on Record Drawing D-001, paved areas included a subbase course of 6" of 2" compacted crushed stone, a 1 ½" NYSDOT Item 403.13 Type 3 Binder course, and a 1" NYSDOT Item 403.18 Type 7 Top Course.

Following final grading of the site backfill, vegetative soil was placed in the area to be restored as a grass area as shown on Record Drawing POST-C-1. In addition, other areas of the site which prior to remediation activities were grass areas including the office trailer area and the area where the VMS was located received vegetative soil as needed. In the areas where remediation activities were performed Mirafi® 500x textile was placed over the backfill material, followed by 2 feet of vegetated soil.

Prior to seeding, soils were properly prepared, met the finished grades, and were free of any weed or plant growth. The areas were scarified in order to provide a firm friable seedbed. Any clods, loose stones, or other foreign materials which are larger than three inches in any dimension were removed. Any gullies, washes, or disturbed areas that developed subsequent to final dressing were repaired prior to seeding.

Following placement of vegetative soil, grass areas were manually seeded and mulched in order to obtain an acceptable vegetative cover.

In addition to the seeding, nine (9) trees were planted per direction provided by the Village of Cold Spring. These trees shall be 2.5-3" DBH of the following species:

- Two (2) Bald Cypress (Taxodium Distichum);
- One (1) Swamp White Oak (Quercus Bicolor); and
- Six (6) Serviceberry (Amelanchier) 'Autumn Brilliance

4.1.13 Well Construction Plan

Watermark prepared a Well Construction Work Plan dated June 7, 2016. The Plan was developed to outline the installation of groundwater monitoring wells during the remediation activities. The Well Construction Work Plan is included in Appendix M.

The wells were installed by Summit Drilling Co., a New York-licensed well driller under supervision of Watermark's Supervising Geologist, using hollow-stem auger drilling technology. The wells will were installed at the locations shown on Record Drawing POST-C-1, as field approved by the Engineer. The wells were installed to the top of the underlying clay layer or to bedrock, whichever was encountered first. The wells were screened across the water table .

During borehole advancement, standard penetration test split-spoon samples were continuously collected in accordance with ASTM 1586. Blow counts were recorded and the soils were visually classified using the Unified Soil Classification System (USCS) in accordance with 6 NYCRR 360-2.11(a)(10). The soils were screened for evidence of potential MGP impacts using a photoionization detector (PID), along with visual and olfactory observations. In addition, the depth at which groundwater was initially encountered during drilling, and the subsequent static water level, were recorded for each well. Soil boring logs were generated and submitted to the Engineer and NYSDEC, and included the information noted above.

Upon completion, the vertical and horizontal coordinates of the newly-installed wells were determined by NMD Surveying, Inc. (NMB), a New York-licensed land surveyor. Vertical measurements (elevations) were measured to within +/- 0.01 feet and horizontal measurements within 0.1 feet using the existing survey controls established for the site. Each well was surveyed from a permanent measuring point scribed onto the well riser.

Monitoring wells were constructed in general accordance with the Monitoring Well Detail shown on Drawing D-001. The wells were constructed of new 2-inch diameter, factory-manufactured, flush-jointed, Schedule 40 polyvinyl chloride (PVC) riser and screen (0.010-inch machine slot size). A PVC plug was threaded onto the bottom of the well. The borehole annulus was completed with No. 1 filter sand pack to a minimum of two feet above the well screen and six inches below the well bottom. A minimum two-foot bentonite seal consisting of rough cut bentonite chips hydrated with water from an approved source was placed above the sand pack. The remainder of the annular space was completed using a Portland cement / bentonite grout or similar low permeability material. The wells were completed at the surface with a 12-inch diameter, flush-mount protective well box with a two foot diameter concrete collar extending the full depth of the protective well box. A locking well cap, all-weather brass locks, and permanent well identification tags were also provided.

The drilling subcontractor developed the wells. Prior to development, the static water level and total well depth of each well was recorded. The recovery time required for the wells to return to static water levels was recorded upon completion of the well development activities. Each well was developed by pumping the monitoring well to remove sediment using a positive displacement pump with dedicated tubing. Well development continued until a minimum of five well casing volumes were removed or until field water quality measurements for pH, conductivity, and temperature stabilized and turbidity readings measured 50 nephelometric turbidity units (NTU) or less. All equipment used to measure the water quality parameters were calibrated prior to use.

All drilling, tools, and other downhole equipment were decontaminated prior to initial use, between well locations and upon completion of well installation/development activities in accordance with the Contract Documents. All decontamination water was collected and containerized for off-site disposal. Investigative derived waste (IDW) generated during the well installation activities consisted of drill cuttings, development water, decontamination water and disposable PPE. Drill cuttings and water produced during drilling and well development activities was containerized in 55-

gallon drums pending waste characterization. All produced IDW was properly characterized and disposed of offsite.

4.1.14 Vibration Monitoring Plan

Watermark submitted a Vibration Monitoring Plan dated October 23, 2015. The Plan was developed to outline vibration monitoring means, methods, and action levels for the construction at the site. The Vibration Monitoring Plan is included in Appendix M.

The details of vibration monitoring are outlined in Section 4.2.4 of this report.

4.1.15 Erosion and Sedimentation Control Plan

Watermark submitted an Erosion and Sedimentation Control Plan, dated September 30, 2015. The Plan was developed to outline the erosion and sedimentation control measures that were employed during the remedial construction. The Erosion and Sedimentation Control Plan is included in Appendix M.

Watermark employed the following erosion and sedimentation controls during the completion of the project:

- A temporary gravel construction entrance was installed near the northwest corner of the property. The Gravel Construction Entrance was graded so that runoff water was directed to a sediment trap and away from the New Street.

- A straw bale dike was constructed at the entrance to the boat ramp to prevent sediment from entering the Hudson River. The straw bale dike was constructed such that when the need arises it could be easily removed (i.e., not staked in place).

- A sediment fence was constructed along the southwest side of the existing gravel parking area to prevent sediment from entering the Hudson River.

4.2 Remedial Program Elements

The elements of the remedial action are listed in Section 2.2.

4.2.1 Contractors and Consultants

Table 3 presents a list of the contractors and consultants who performed the work and their associated tasks. URS was responsible for documenting Contractor compliance with the Contract Documents during all construction activities. Watermark was the Prime Contractor for the work at the site and has prepared the Final Record Drawings, which were stamped by a Professional Engineer. They are presented in Appendix K.

4.2.2 Project Permits and Approvals

The following permits and approvals for the project are presented in Appendix G of this FER:

- Transporter Permit for the transportation of construction water for disposal.
- Disposal Facility Permits for construction and demolition debris, treated water from construction dewatering, non-hazardous soil, hazardous soil, oversized rock, water treatment system tank bottoms, and investigation derived waste (IDW) from the monitoring well installation.
- Village of Cold Spring Demolition Permit for the demolition of the Boat Club Building.
- Village of Cold Spring Noise Permits for compliance with the Village of Cold Spring Noise Ordinance during the installation of the sheet piling and operation of the VMS.

4.2.3 Site Preparation, Site Controls, Mobilization, and Protection of Utilities

A Pre-Construction meeting was held at the NYSDEC Albany office on September 25, 2015 with the following in attendance: NYSDEC, URS, and Watermark to discuss the work scope and administrative requirements. The Pre-Construction meeting minutes are provided in Appendix B of this report.

Watermark mobilized to the site from October 13, 2015 through October 30, 2015. Watermark mobilized the following pieces of equipment to the site:

- Two 10 ft. x 40 ft. William Scottsman Office Trailers (one each for the Engineer and the Contractor)
- One INI® Mini Excavator
- One Komatsu® PC 210 LC Excavator
- One Bobcat® T65 Skid Steer Loader
- Doosan P185 Air Compressor
- One Water Truck
- Rusmar® NTC/8 Foam Control Unit
- Shark® SGP-353037 Pressure Washer
- Royal Carting Co. Trash Receptacle
- One WhisperWatt® 45 Generator
- Four RAE Systems® MiniRae 2000 Photoionization Detectors
- Four DustTrak® DRX Model 8533 Aerosol Monitors
- Five White Industrial Seismology Mini-Seis® Vibration Monitors
- One Vantage Pro2® Meterological Station
- One Casella USA® CEL 240 Digital Sound Level Meter
- One Rain For Rent® Construction Water Treatment System consisting of one 18,000-gallon weir tank, two 21,000-gallon fractionalization tanks, one 3-inch 110V electrical submersible pump (in excavation), one 3-inch 110V electrical submersible pump (in weir tank), three 10 micron bag filters, two 1,000-pound activated carbon units, and one magnetic flow meter.

During this time Watermark also removed and staged existing site fence to accommodate construction equipment. National Construction Rentals erected temporary chain link fence along the perimeter of the site. Fossati Plumbing and Pizzella Brothers Plumbing cut and capped the ¾-inch water line and 4" sewer line that ran to the Boat Club Building from New Street. The lines were cut and capped at New Street. Watermark collected universal waste (light bulbs, light fixtures, etc) from inside of the Boat Club Building. NMB Surveying, Inc. performed a pre-construction survey of the site. Watermark used the INI® excavator to excavate the trench for the temporary power to the water treatment equipment and the office trailers, and the trench for the permanent power for service meter and load center. Burke Services cut and capped the deactivated electrical conduit and cable that ran underground to the Boat Club Building from the west on the property. Both Central Hudson Gas and Electric and Verizon removed their overhead lines from the utility poles on New Street.

Watermark constructed the decontamination pad during this time period. Watermark's initial completed decontamination pad did not meet the requirements set forth in the Contract Documents and Watermark was issued a Notice of Deficiency on November 12, 2015. The decontamination pad was brought into compliance with the Contract Documents by November 16, 2015. The Notice of Deficiency is included in Appendix M.

Watermark completed existing conditions structures surveys of the residences at 12 West Street, 14 West Street, 4 New Street, 8 New Street, 10 New Street, and 19 Market Street, the six residences in the immediate vicinity of the site. Watermark inspected the interior and exterior of each residence and documented pre-existing conditions such as cracks, movement, subsidence, water damage, etc. URS accompanied Watermark during the inspections. The pre-construction conditions of the residences were photo-documented in pre-construction inspection reports that were provided to the residents. The pre-construction inspection reports are included in Appendix M. Watermark also took video and photographic surveys of the roads in the vicinity of the site.

URS and the Department conducted in-person meetings with the residents at 12 West Street, 14 West Street, 4 New Street, 8 New Street, 10 New Street, and 19 Market Street during the mobilization period to provide them with details on the project and answer questions.

Power was initially distributed to the office trailers from the WhisperWatt® generator onsite. The Department and URS prepared the Contract Documents under the assumption that the Village of Cold Spring would coordinate the installation of a pad-mounted transformer at the corner of New and West Streets from which Watermark to tie into would obtain power at the site. After Watermark mobilized to the site, URS was notified by the Village of Cold Spring that the installation of the transformer was not in the Village's Scope of Work. URS immediately issued Field Order No. 1 to Watermark instructing them to perform the work necessary to coordinate with local power provider Central Hudson Gas and Electric (CHG&E) to get the pad-mounted transformer installed on the site. Watermark was also issued PCO No. 0003 for the completion of the work. Burke Services coordinated the work with CHG&E and the transformer was installed on November 6, 2015. Power was distributed to the office trailers and the water treatment equipment from the transformers from that date. The generator was demobilized from the site shortly after the installation of the pad-mounted generator.

Watermark's daily crew during the mobilization period consisted of a site superintendent, a full-time, dedicated Site Health and Safety Officer, an equipment operator, and a laborer.

4.2.4 Site Monitoring

4.2.4.1 Community Air Monitoring

The weekly community air monitoring reports are included in Appendix E. Watermark also provided URS with all raw total VOC, PM_{10}, and meteorological monitoring data on a monthly basis on CD.

There were occasional, brief exceedances of the 150 $\mu g/m^3$ and 5 ppm over a 15-minute time-weighted average action levels onsite during the course of the project. Those exceedances were attributed to heavy equipment temporarily idling near the CAMP Stations. The occasional, prolonged exceedances of the action levels to particulates and VOCs were attributed to equipment malfunction due to humidity or bump testing performed after equipment calibration.

4.2.4.2 Settlement (Movment) Monitoring

Settlement (Movement) Monitoring Points were established at the residences at 12 West Street, 4 New Street, 8 New Street, 10 New Street, and 19 Market Street on October 15, 2015. URS and Watermark hand-marked two locations at each residence and NMB Surveying, Inc. surveyed the points during the mobilization period. The points were used to monitor any movement of the residences during the course of construction. The Warning Action Limit established for the movement points in the Contract Documents was 0.125 inches. The Stop Work Action Limit was 0.25 inches. The points and surveyed elevations are shown on Record Drawing PRE-C-1, included in Appendix K. Watermark surveyed the settlement monitoring points weekly from the week that they were established through the week of July 15, 2016. There was no change in the elevation of the movement monitoring points during the course of construction. The settlement monitoring measurements were reported weekly in Settlement, Crack, and Vibration Monitoring Reports completed by Watermark. The reports are included in Appendix N.

4.2.4.3 Vibration Monitoring

Watermark installed White Industrial Seismology Mini-Seis ® Vibration Monitors at the residences at 12 West Street, 4 New Street, 8 New Street, 10 New Street, and 19 Market Street during the mobilization period. A cut sheet for the Monitors is included in Appendix M.

Watermark initially submitted RFI No. 4, requesting information on the locations at which vibration monitoring was to be conducted. URS provided direction on where the vibration monitors were to be installed in response to the RFI. The monitors were to be installed at each of the five residences in the vicinity of the site. Watermark's interpretation of that RFI response and the Contract Documents was that only one vibration monitor was required and that it could be moved from residence to residence. URS issued Field Clarification Memo (FCM) No. 1 to Watermark, notifying them that in order to record pre-construction baseline vibration data as specified in Contract Specification Section 01720, five total vibration monitors needed to be mobilized to the site to record data at each residence simultaneously and continuously. Watermark was later issued PCO No. 0001 for the four additional vibration monitors. The vibration monitors were installed on October 26, 2015. Watermark sheet piling installation subcontractor, J.M. Kelc Marine Contractors, Inc. (Kelc), also elected to place two additional vibration monitors at the residence at 23 Market Street on December 21, 2015, just prior to the beginning of the sheet piling installation.

The detection limit on the vibration monitors was set at 0.01 inches per second, the lowest possible setting. The monitors detected and logged vibrations at 0.01 inches per second and higher. The Warning Action Limit established for the vibration monitoring in the Contract Documents was 0.5 inches/second. The Stop Work Action Limit was 2.0 inches/second.

There were occasional, brief readings of 0.5 inches/second recorded at the vibration monitors when vessels containing vapor –phase activated carbon were being put into place onsite. The only readings of 2.0 inches/second were recorded when Watermark bump-tested the monitors to confirm functionality. The vibration monitors were removed from the residence at 23 Market Street on January 11, 2016, at the conclusion of the sheet pile installation. The vibration monitors were removed from the five residences in the vicinity of the site on July 19, 2016.

4.2.4.4 Crack Monitoring

In accordance with Contract Specification Section 01720, crack gauges were installed at the residences where significant cracks where observed during the pre-construction existing conditions structures surveys. Buildera ® CRACKMON 4020A crack gauges were installed at the residences at 10 New Street, 19 Market Street, and 23 Market Street. A cut sheet for the crack gauges is included in Appendix M. Four crack monitoring gauges were installed at 10 New Street and two crack monitoring gauges were installed at 19 Market Street on October 15, 2016. Three crack monitoring gauges were installed at 23 Market Street on December 21, 2015, prior to the beginning of the sheet piling installation.

Watermark checked the crack monitors weekly, accompanied by URS. There were no propagations of cracks observed at the gauges during the course of the construction. The crack monitors were removed on August 1, 2016.

4.2.4.5 Reporting

In accordance with Contract Specification Section 01720, Watermark submitted Settlement, Crack, and Vibration Monitoring Reports to URS on a weekly basis. The Reports are included in Appendix N. Data from all three monitoring activities were summarized in the reports. For vibration monitoring, summary tables of the peak particle velocities recorded, and histogram plots for the vibration monitoring data were included in the reports. Watermark also reported vibration data daily. For settlement (movement) monitoring, the readings from each surveyed monitoring point were plotted with time in the reports. The daily vibration data is also included in Appendix N.

4.2.5 Clearing and Existing Building Demolition

Prior to the demolition of the Boat Club Building, Watermark used the Komatsu® PC 210 LC Excavator to clear the overgrown brush from the southern end of the site near the rock outcrop. They also removed the trees located immediately to the east and west of the Boat Club Building. The trees and brush were disposed of with the building demolition debris. Watermark also scraped up asphalt from the surface of northern and eastern ends of the Boat Club Building using the Bobcat® T65 Skid Steer Loader. The asphalt was ultimately disposed of with excavated soil. A pre-construction site plan is presented in Record Drawing C-001 in Appendix K.

Watermark held a Pre-Building Demolition Meeting with URS onsite on October 22, 2015. Watermark received a Building Demolition Permit from the Village and commenced demolition on November 2, 2015. The building was constantly hosed with water from the water truck onsite during the demolition. The building was demolished in one day. The building debris was disposed of at the Watch Hill Transfer Station in Hopewell Junction, New York. A full manifest tracking log is included in Appendix F.

4.2.6 Flowable Fill Wall Installation

The excavation of the flowable fill wall commenced on December 3, 2015. The layout of the wall is shown on Record Drawing C-006 in Appendix K. Watermark began the excavation at Station A0+00 with the Komatsu® PC 210 LC Excavator and worked their way eastward. They excavated in the area until bedrock was reached in accordance with the Contract Documents. Once bedrock was encountered, Watermark sprayed the surface of the bedrock clean with the Shark® SGP-353037 Hot Pressure Washer prior to the placement of flowable fill. The reach of the flowable fill wall area between Stations A1+86.50 and A2+14.84 was clay at the design depth rather than rock. The installation of the flowable fill wall was completed on January 19, 2016. NYSDOT Item No. 4 backfill material was placed along the southern end of the flowable fill wall, adjacent to the rock outcrop.

Bonded Concrete, Inc. (Bonded Concrete) supplied Watermark with the flowable fill. The mix design for the fill is included in Appendix M. A total of 586 yards of flowable fill were installed onsite. Advanced Testing, Co., Inc. (Advanced Testing) was the lab retained by Bonded Concrete for Quality Assurance/Quality Control during the wall installation. During flowable fill placement samples were collected and tested for spread diameter and cylinder cast per the requirements set forth in NYSDOT specification 733-01, as well as unconfined compressive strength. Per the Contract Documents, the flowable fill must have a minimum unconfined compressive strength (UCS) of 150 psi at a 28-day curing period. All samples of flowable fill collected met the unconfined compressive strength requirements. The UCS test results are included in Appendix M.

In order to meet the subgrade elevations for the placement of topsoil, portions of the flowable fill wall were removed. Watermark submitted RFI No. 24, requesting permission to use the extracted flowable fill as backfill material. URS approved this RFI, with the requirement that the flowable fill be free of visible staining. Watermark buried the extracted flowable fill in the main excavation.

4.2.7 Sheeting and Shoring System

4.2.7.1 Pre-Excavation of Sheet Pile Trench

During the completion of the excavations for waste characterization sampling and the installation of the flowable fill wall, Watermark encountered many large rocks ranging in size from 6 inches to 5 feet in diameter. The 6-inch to 2-foot diameter rock was encountered from just below existing grade to 10 feet below grade. Larger, 3-foot to 5-foot diameter rock was encountered from 5 feet below existing grade to 10 feet below existing grade.

URS issued Field Order No. 15 to Watermark, providing the direction on how to proceed with the sheet pile trench installation. Watermark was instructed to pre-clear the sheet pile trench line of the large rock and stockpile it onsite. The trench was to be backfilled with NYSDOT Item No.2 stone. Watermark began the sheet pile trench excavation, using the Komatsu® PC 210 LC Excavator, on December 14, 2015. Trenching began at Station 2±28, shown on Record Drawing Sheet-AB, and proceeded westward. The lithology along the sheet pile trench mirrored that observed during the flowable fill and waste characterization sample excavations. Rock sized 6 inches to 2 feet in diameter was encountered to 5 feet below existing grade. Rock sized 3 feet to 5 feet in diameter was encountered at elevations 5 feet below grade and deeper. Rock extracted from the deeper portions of the trench were stained and had an odor. Watermark constantly sprayed the rock stockpile with odor control foam during the excavation and covered the stockpiled rock with poly sheets at the end of each day. Watermark excavated and pre-cleared the trench until clay was reached. Item No. 2 stone was used to backfill the trench. The pre-clearing and backfilling of the trench was completed on December 16, 2015.

The work was tracked on a time and materials basis daily by URS and Watermark. T&M sheets were signed daily by URS and Watermark. Watermark was issued PCO No. 0006 for the completion of the work.

4.2.7.2 Installation of Sheet Pile Wall

Kelc mobilized to the site on December 9, 2015. They delivered 226,800 pounds of PZC-18 sheets. They mobilized a Tadano® ATF-100G-4 wheel-mounted crane, and an ICE® 28D Vibratory Hammer with Power Pack. Kelc's seven person crew for the sheet pile driving operation consisted of a foreman, two dockbuilders, two laborers, a health and safety officer, and a crane operator. Sheet pile driving commenced on

December 21, 2015. A representative from Techtonic, a geotechnical engineering subcontractor to Kelc and the designer or the sheeting and shoring system, accompanied Kelc during the installation activity. The sheet piling was driven in 4-foot wide pairs. Techtonic laid out the sheet pile wall. Kelc began on the eastern end of the sheet pile trench at Station 2±28 (see Record Drawing Sheet-AB) and worked their way westward. The pairs are numbered sequentially, SP-1 through SP-57 from Stations 2±28 through 0+00. The eastern section of sheet piling (Stations 2±28 through 1±96) was driven without incident. As Kelc began the sheet pile installation parallel to New Street, the noise levels generated by the sheet piling operation rose substantially. Noise levels peaked at 116.1 dB while sheets were driven at Station 1±96 moving westward.

As sheet piling operations proceeded westward from Station 1±96, Kelc encountered a subsurface obstruction between sheet pile pairs SP-20 and SP-21 that caused a gap to form in the sheet pile wall. Watermark was immediately notified in writing by URS that measures had to be taken to close the gap and that they were working at their own risk if they elected to continue the sheet piling without implementing corrective measures. Techtonic developed a revision to the waler system across the gap in which the section of waler that was initially to be installed at elevation +3.0 (3 feet below existing grade) would be installed at +4.0 (2 feet below existing grade). An additional waler section with tieback anchors would be installed across the gap at elevation +1.0 (5 feet below existing grade). The waler section at elevation -4.0 (10 ft. below existing grade) would also be installed across the gap as per the original design. A steel plate was to be welded vertically over the gap in addition to the waler modifications. Techtonic's plan to address the gap in the sheet pile wall is included in Appendix M.

Watermark elected to continue the sheet piling operation without addressing the gap between pairs SP-20 and SP-21. A minor excavation had to be completed at Station 0+52 to remove a 2-foot diameter rock that was obstructing the pile driving. The remaining sheets to the west of pair SP-21 were installed without incident. After installation, sheet pile pairs SP-9 to SP-44 were cut to 1 foot above existing grade. Pairs SP-1 through SP-8 and SP-45 through SP-57 were cut flush with grade. Both NMB and Techtonic completed a final survey of the sheet pile wall. A total of 5,949 square feet of sheet piling was installed onsite. Kelc demobilized from the site on January 12, 2016.

Due to the rock stockpile that was present onsite prior to Kelc's mobilization, they had to mobilize a larger rig to the site than they had initially anticipated. Kelc originally proposed a Bauer-Pileco ® RTG RG 19 track-mounted rig to perform the sheet piling installation. The larger, Tadano ® model crane ultimately had to

be mobilized because it had the capability to reach over the rock stockpile and install the sheet piling. Watermark was granted PCO No. 0009 for additional costs associated with the installation of the sheet piling.

4.2.7.3 Complaint from Nearby Resident

A nearby resident complained about the noise levels as Kelc began driving sheet piling along the northern section of the wall and the Village of Cold Spring Building Inspector shut the operation down until Watermark and Kelc could establish noise mitigation measures. The Village of Cold Spring Noise Ordinance mandates the noise levels in Industrial Areas not exceed 80 dB from 7:00 A.M. to 10:00 P.M. The Ordinance also provides for 10 dB above the 80 dB max for a duration of 15 min. in a 1 hour period. This provision was also exceeded.

Kelc mounted a 40 ft. x 100 ft. EPDM rubber sheet in-between two, 40 ft. tall H-piles in an attempt to create a sound barrier for the sheet pile driving operation. The sound levels were only reduced to 111 dB and the Village would not allow full sheet piling operations to resume. Watermark ultimately provided hotel accommodations for the resident until sheet piling operations were concluded. The Village granted Watermark a waiver to the Noise Ordinance on December 30, 2015 and allowed them to resume sheet piling operations. The waiver is included in Appendix G.

4.2.7.4 Re-mobilization for Waler and Tieback Anchor Installation

Kelc remobilized for the waler and tieback installation operation on March 10, 2016, after the TCS and VMS were erected onsite and excavation underneath the structure had been partially completed. Kelc's waler and tieback installation crew consisted of a foreman, two drillers, three dock builders, two equipment operators, and a health and safety officer. A representative from Techtonic accompanied Kelc to prepare logs for the installation. Kelc had the materials for the waler shipped to the site and immediately began fabrication onsite, outside of the enclosure. Kelc mobilized the drill rig for the tieback installation, a Hutte® Model HBR504 FTW, to the site on March 14, 2016 and began the installation of the tiebacks at the western sheet pile wall on March 16, 2015. The auger on the rig was powered by a Sullair ® 375 HH Air Compressor. The tiebacks were numbered 2290 through 2213 as shown on Record Drawing Sheet-AB.

Kelc installed the first two tieback anchors at locations 2306 and 2307. Pull tests were performed on both anchors on April 5, 2016. Per Techtonic's approved design, the design load for the upper waler was 110 kips. The design load for the lower waler, the waler at elevations -4.0 (10 feet below existing grade), was 170 kips. An anchor was to be pull tested to 120% of its design load (143 kips for the upper waler) for a period of five minutes. If no yielding was observed, the anchor was to be locked off at 100% of its design load. The anchors at locations 2306 and 2307 failed pull testing.

4.2.7.5 Tieback Anchor Re-design

Watermark and Kelc elected to re-design the tieback anchors. Techtonic completed the design for Kelc. The new design for the anchors mirrored the original design except that a 3/4 –inch PVC tube was attached to each anchor prior to insertion. Under the new design, a minimum of two post-grout injections (of grout) were to be performed at each anchor, a minimum of 24 hours apart, prior to pull testing. The post-grouting was to be performed through the PVC tube attached at each anchor.

After the post-grout injection and hydrostatic testing events, pull testing was performed on the anchors installed under the new design. Anchors installed at locations 2292, 2301, 2302, 2303, 2304, 2311, 2312, and 2313 passed pull testing and were locked off at 110 kips, 100% of the design load. The remaining anchors failed pull testing and were locked off at 55 kips, 50% of the design load. The anchor at location 2306, installed under the original design was also locked off at 55 kips.

After final grouting, but prior to pull testing, Kelc installed steel waler sections across the tieback anchors as shown on Record Drawing Sheet-AB. The section of waler across sheet pile pairs SP-15 through SP-24 was installed at elevation +4.0 in accordance with Techtonic's design to address the gap in the sheet pile wall located there. During pull testing at location 2309, the weld holding the waler to a plate stiffener support failed, causing the section of waler there to separate from the sheet pile wall. Kelc put the waler back into place and made the necessary repairs to the welds. Kelc demobilized from the site on May 13, 2016. The upper waler was inspected by Techtonic's geotechnical engineer on May 16, 2016 and certified by Watermark's New York State-licensed Professional Engineer on May 18, 2016.

Watermark was granted PCO No. 011 for additional costs associated with the tieback anchor installation. The PCO also included the fabrication costs for the middle waler. Though the middle waler was ultimately not installed, Watermark purchased the materials for the waler, had them shipped to the site,

and fabricated the waler onsite. In the interest of schedule preservation, Watermark proposed the elimination of the installation of the lower waler and tieback anchors (at elevation -4.0 and -5.0 or 10 ft. and 11 ft. below existing grade) across the sheet pile wall. They also proposed the elimination of the upper waler (at elevation +3.0 or 3 ft. below existing grade) on the western section of the sheet pile wall. Watermark submitted New York State Professional Engineer-Stamped analyses justifying these eliminations and was granted approval by URS. The eliminations resulted in 280 linear feet of waler and 19 tieback anchors not requiring installation. A credit was assessed to the Department in PCO-011 for the tieback anchor and waler sections that were not installed.

4.2.8 Temporary Containment Structure and Vapor Management System

The VMS was delivered to the site on January 12, 2016. The TCS was mobilized to the site on January 19, 2016. All Site Structure Rentals, Watermark's TCS subcontractor, sent a four man crew to the site to erect the TCS. Watermark mobilized a Genie® S-60X Manlift, a JLG® 600S Manlift, a Genie® GTH 1056 Forklift, and a Case® 586G Forklift for the TCS erection. The crew from All-Site operated the equipment. Prior to erecting the TCS, All Site installed and performed pull testing on 22 baseplates. Each baseplate withstood 11,480 pounds of force as measured on a dynamometer in the field. TCS erection was complete by February 9, 2016. The TCS was approximately 150 feet long x 71 feet wide x 35 feet tall.

Watermark assembled the VMS with the assistance of their electrical subcontractor, Burke Services. The VMS consisted of two 20,000 cubic feet per minute blowers (each equipped with panel and pocket filters), two 16,000-pound activated carbon vessels, interconnecting flexible duct, and a control panel. Watermark installed eight 4 foot x 8 foot noise barrier panels along New Street, adjacent to the VMS. VMS installation was complete by February 10, 2016. Watermark performed a demonstration of the VMS for Village Officials, prior to the installation of the noise barriers. During the demonstration, the maximum noise reading recorded at the sidewalk in front of the residence at 10 New Street was 73 dB. Per the Village Official's instruction, Watermark was to formally request a variance to the Village Noise Ordinance for permission to operate the VMS at a noise level of 80 dB for 24 hours per day, 7 days per week. Watermark requested and was granted that variance. The equipment mobilized for the erection of the TCS was promptly demobilized after mobilization was complete.

Watermark initially ran both blowers of the VMS 24 hours per day, 7 days per week. Operation was gradually reduced during the course of the soil excavation to only operate during the work day, based on odors and photoionization detector readings inside of the enclosure at the end of the work day.

Watermark completed weekly vapor management system reports during the operation of the VMS. The reports are included in Appendix O. Watermark recorded maintenance performed on the system, pressure readings from the gauges on the system, the condition of the filters, and the presence of odors. Photoionization detector readings from various points along the VMS were also recorded separately and submitted daily. This data is also included in Appendix O.

Watermark mobilized two JLG® 600AJ Manlifts and a Genie® GTH 1056 Forklift for the TCS disassembly on May 20, 2016. Disassembly of the TCS and shipment offsite was complete by May 28, 2016. Disassembly of the VMS began on May 20, 2016 and was completed by June 21, 2016. Burke Service disconnected the electrical to the VMS. Central Hudson Gas and Electric removed the service meter and electrical disconnect that had been installed on a nearby utility pole specifically for the VMS. Hydrovac Excavating vacuumed the vapor phase carbon from the vessels and deposited it with excavated soils on site. The weight of the carbon was deducted from the soil disposal totals prior to invoicing. Watermark crane subcontractor, Olori Crane Service, Inc., loaded the blowers and empty activated carbon vessels onto flatbed trucks for demobilization.

In the interest of schedule preservation, Watermark proposed not to relocate the TCS to Location No. 1, as shown on Record Drawing C-005, and complete the excavation at Location No. 1 under odor suppressant foam. Watermark submitted PCO No. 008 for this work. The Department was assessed a net credit in the PCO for not relocating the TCS.

At the request of the Department, Watermark mobilized and installed jersey barriers outside of the temporary site fencing on New Street. URS issued Field Order No. 5 to Watermark, directing them to deliver jersey barriers to the site. Watermark was granted PCO No. 0005 for this work.

4.2.9 Contaminated Soils Excavation

4.2.9.1 Waste Characterization Sampling

Watermark completed initial waste characterization sampling onsite on October 22, 2015. Watermark excavated three total test pits on the eastern and western sides of the Boat Club Building. Samples WC-1 and WC-2 were collected from two of the test pits as shown on Record Drawing C-004. The samples were analyzed for PCBs by EPA Method 8082 and a Full TCLP. Benzene was detected in Sample WC-2 at 1.5 mg/L. Per RCRA, the level at which wastes are considered hazardous is above 1.0 mg/L. Watermark collected eight more samples in the vicinity of WC-2, labeled WC-3 through WC-10 as shown on Record Drawing C-004, in order to delineate the benzene contamination. URS instructed Watermark to hold the additional samples and submit a summary of the additional waste characterization sampling, including sample locations, sample depths, time of collection, PID readings, and plan moving forward if analytical results were above regulatory levels. That summary and the analytical reports from the waste characterization sampling are included in Appendix C. The summary was found to be acceptable by URS and Watermark was issued Field Order No. 2, instructing Watermark to analyze samples WC-3 through WC-6 for TCLP Benzene with expedited turnaround. The analytical results were below the regulatory level and the extent of the elevated benzene contamination was considered delineated.

Per the Department's request, URS issued Field Order No. 4 to Watermark, directing them not to conduct excavation activity during Thanksgiving Week 2015. Watermark was granted PCO No. 0004, which included compensation for this delay, delays associated with evaluating the hazardous waste that was encountered onsite, and sampling and disposal of that waste.

During the collection of waste characterization samples WC-3 through WC-10, Watermark extracted some 2-foot to 5-foot diameter rocks at some of the locations. This prompted Watermark to submit RFI No. 15 with a request for information on how to handle the oversized rock. Watermark's originally proposed disposal facility, the City of Albany Solid Waste Management Facility (Rapp Road), would only accept material that contained 30% rock or less and that rock had to be 6 inches in diameter or less. The permit for Rapp Road is included in Appendix G. In their response to the RFI, URS instructed Watermark to find a disposal facility that would accept the rock, excavate the rock and clear it of loose soil, and transport and dispose of the rock at that

facility. Rock that was too large for acceptance at the disposal facility was to be cleaned of soil and stockpiled onsite for use as backfill in the main excavation.

4.2.9.2 Excavation of the Stabilized Backfill Wall

Watermark commenced excavation in the Stabilized Backfill Wall Area on December 3, 2015 at Station A0+00 as shown on Record Drawing C-006 and worked their way eastward. Personnel monitoring of Watermark personnel commenced with the excavation. The personnel monitoring samples were analyzed for BTEX, PAHs, and particulates. Extensive construction debris was extracted from the excavation at Station A0+00 including tires, an overhead garage, door and an old automobile engine. Soils that were excavated from Stabilized Backfill Wall Area were shipped to Rapp Road from December 3, 2015 through December 18, 2015. Watermark alternated excavation between the Stabilized Backfill Wall Area and the Sheet Pile Trench during this time. The 2-foot to 5-foot diameter rock that was encountered during the waste characterization sampling was also encountered during the excavation of the Stabilized Backfill Wall Area. The large rock was stockpiled in the center of the site along with the rock extracted from the sheet pile trench excavation. The soils that contained too much 6-inch rock for disposal at Rapp Road were stockpiled on unexcavated portions of the Stabilized Backfill Wall Area. The excavation and the rock stockpile were constantly sprayed with Rusmar® AC-645 Long Duration Foam. The stockpiles were also covered at the end of each work day with plastic truck bed liners.

Watermark identified ESMI of New York in Fort Edward, New York as the disposal facility to accept the rock larger than 6 inches diameter. The permit for Fort Edward is included in Appendix G. One condition for acceptance of the rock was that it had to be sized less than 3 feet in diameter. URS, the Department, and Watermark agreed that after the sheet pile trench excavation and Stabilized Backfill Wall Excavation, the large diameter (greater than 3 feet in diameter) was too extensive to leave stockpiled as backfill for the main excavation. Watermark was instructed to mobilize equipment to the site to break up the rock greater than 3 feet in diameter to make it suitable for disposal at Fort Edward. On January 4, 2015, a John Deere® 160G LC Excavator with 8,000 lb. Hydraulic Hammer was mobilized to the site. Watermark used it to break up the stockpiled rock. Watermark disposed of the stockpiled rock and the soil from the Stabilized Backfill Wall Area that contained greater than 30% of 6-inch diameter rock at Fort Edward. This operation continued on a part-time basis through January 20, 2016. Soils that were suitable for disposal at Rapp Road where disposed of here.

Watermark was issued PCO No. 006 for this work. It included compensation on a time and materials basis for the excavation and backfill of the sheet piling trench, processing the oversized rock, and transportation and disposal of rock and rocky soils at Fort Edward. URS and Watermark signed daily T&M sheets to track the sheet pile trench work.

Watermark completed the excavation and placement of flowable fill in the Stabilized Backfill Wall Area by January 19, 2016. The TCS and VMS erection were completed by February 9, 2016. Watermark commenced excavation underneath the TCS at Location No. 2 (shown on Record Drawing C-005) on February 10, 2016.

4.2.9.3 Gas Holder Foundation Excavation

Watermark completed the excavation of the first portion of the foundation for the former gas holder tank, located at Station A1+62.86 in the Stabilized Backfill Wall Area, from December 8, 2015 through December 11, 2015. John Deere® 350G LC Excavator with 8,000 lb. Hydraulic Hammer was mobilized to the site specifically to demolish the holder walls and bottom. The walls of the holder had a brick veneer with 2 –foot diameter rocks behind it. The floor of the holder was a thin layer of cement with 6-inch to 1-foot diameter rocks beneath. There were traces of a purple-brown liquid, resembling product, in the groundwater that entered the excavation in this area.

4.2.9.4 Geoprobe® Sampling

PAH contamination located to the south and west of the sheet pile wall had not been fully delineated during design and was shown on the Contract Drawings as "to be determined by post-excavation confirmation sampling." However, to accelerate the delineation of PAH contamination at the site Watermark, was instructed to retain a Geoprobe® driller to perform pre-excavation delineation sampling. The subject was first presented by URS and the Department at the Pre-Construction Meeting. Watermark submitted RFI No. 12 on the subject, requesting information on the required analyses for the samples and the turnaround times (TATs). URS responded with the required analyses, TATs, and figure showing the sample locations.

Watermark's Geoprobe drilling subcontractor, ADT, performed the work on December 29, 2015. Watermark had a dedicated geologist screening and logging the soils and collecting samples during the

operation. URS photographed the samples. The results for the samples collected at locations WB-1 through WB-4 (shown on Record Drawing C-004) are presented in Table 4. The only sample that failed the cleanup criteria was collected over the 6.3-foot to 10-foot interval at location WB-4, with a Total PAH detection of 714 ppm. Possible source material was also detected at location WB-3. The analytical results and boring logs for the sampling are included in Appendix J. Watermark was issued PCO No. 0002 for the completion of this work.

Based on the results of the sampling, URS issued Field Order No. 8 to Watermark, which showed an expanded excavation area to address the contamination. The details of that excavation are described in Section 4.2.9.7 of this report.

4.2.9.5 Excavation Underneath the TCS

Watermark began excavation underneath the TCS in the southwest corner and worked north to south as they moved westward inside of the TCS. They excavated from existing grade (elevation +6.0) to 3 feet below grade (elevation +3.0). The soils in this interval were generally suitable for disposal at Rapp Road. The rocks larger than 6 inches in diameter that were encountered in this interval were stockpiled in the southeastern corner of the excavation. Soils excavated underneath the TCS were exclusively disposed of at Rapp Road through February 25, 2016. Below elevation +3.0, Watermark encountered a greater amount of the 6-inch to 3-foot diameter rock. URS and the Department instructed Watermark to complete test pits to determine the extent of the rock to the remediation depth. Watermark was able to complete one test pit on February 29, 2016. The groundwater infiltration was so significant in the test pit that it could not be determined when the target depth had been reached. URS issued Field Order No. 10 to Watermark instructing them to stockpile 3-foot diameter rock and larger and use it as backfill material in the excavation. The handling of the large rock was tracked on a Time and Materials basis. URS and Watermark signed daily T&M sheets to track the handling of large rock. Watermark was granted PCO No. 12 for compensation for the handling of the large rock. Compensation for the time for the completion of the test pits was also included in the PCO.

After February 29, 2016, Watermark excavated the material at TCS Location No. 2 into stockpiles and then segregated those stockpiles into material that was suitable for disposal at Fort Edward and disposal at Rapp Road. At the direction of the Department, URS videotaped the excavation during this time. URS and Watermark negotiated separate excavation and transportation and disposal unit rates for the material that was

shipped to Fort Edward. The unit rate for the excavation of the material that was shipped to Fort Edward is included in PCO-007A and the unit for the transportation and disposal of that material is included in PCO-007B. Watermark would submit a letter from their surveyor, NMB, with a Digital Terrain Model (DTM) appended with each Contractor's Application for Payment (CAP) stating the volume excavated for the given invoice period. Based on the distribution of Rapp Road and Fort Edward material in the weight tickets submitted for the same invoice period, the volume of each waste stream excavated was determined. The site surveys are presented in Record Drawings PRE-C-1, POST-C-1, and EXCA-C-1.

Watermark completed the excavation of the remaining portions of the gas holder foundation from March 2, 2016 through March 4, 2016. PID levels were elevated during the excavation and all personnel inside the TCS switched to Level C PPE. In addition to a hand-held Rae Systems® MiniRAE 3000 PID with Watermark's Health and Safety Officer, a DustTrak ® DRX Model 8533dust monitor and Rae Systems® VRAE and ppbRAE were permanently stationed in the TCS. The gas holder foundation materials were shipped to Fort Edward and invoiced at the PCO-007A and PCO-00B rates. Because the excavation, transportation, and disposal of the gas holder foundation were included in the Contract Documents, Watermark and URS negotiated a split in those costs and a portion of the materials were reduced to the Contract Rates for excavation, transportation and disposal.

4.2.9.6 Excavation Outside of the TCS

Watermark began excavation outside of the TCS on June 1, 2016. They began at the southeastern corner and worked their way westward. Fractured bedrock was encountered at the remediation depth across the entire excavation. The excavation was constantly foamed. Prior to the beginning of the excavation, Watermark marked-out the area of hazardous soil that was encountered during waste characterization sampling. This material was excavated and shipped to Fort Edward on June 03, 2016. The excavation outside of the TCS, excluding the Geoprobe® Sampling Area, was completed on June 06, 2016. URS verified that there was no visual evidence of coal tar at the remediation depth. Demarcation fabric was placed at the base of the excavation after compliance samples were collected, prior to backfilling.

4.2.9.7 Excavation in the Geoprobe® Sampling Area

Based on the results of the Geoprobe® samping, URS issued Field Order No. 8 to Watermark, which included a Figure showing an expanded excavation area in the Geoprobe ® Sampling Area and the following guidelines:

- Watermark was to expand the area of excavation westward into the area shown on the attached figure, to an initial depth of 10 feet below grade.
- The excavation sidewalls were to be maintained as steep as possible consistant with safety and regulatory requirements. The top of the excavation was to be maintained at least the required minimum distance from the TCS established by the TCS manufacturer.
- The bottom of the excavation was to be visually inspected by the Engineer, and additional depth was to be excavated as directed by the Engineer, consistant with the restrictions identified in the previous bullet.
- The Contractor was to collect compliance samples in accordance with Section 01400 as follows:
    a. One documentation sample from the approximate center of the bottom of this additional area of excavation, if so directed by the Engineer.
    b. Two confirmation samples from the unbraced sidewalls of this additional area of excavation. The samples were to be collected approximately one-third of the height from the bottom, and were to be evenly spaced along the perimeter.
- Depending on the results of the confirmation samples, additional excavation may have been required from that area after demobilization of the TCS. Such excavation was to be addressed in a subsequent Field Order.

Watermark completed the additional excavation and backfill in the Geoprobe ® area from June 07 to June 09, 2016. Fractured bedrock was encountered at the remediation depth. URS verified that there was no visual evidence of coal tar at the remediation depth. Demarcation fabric was placed at the base of the excavation after compliance samples were collected, prior to backfilling.

4.2.9.8 Backfilling

The excavation was backfilled with Item No. 4 stone, unstained pieces of the flowable fill wall (in accordance with URS's response to RFI No. 24), and rock sized 3 feet in diameter and larger. Watermark collected 21 samples of backfill material, labeled BF-1 to BF-21. The analytical results of the sampling are

including in Appendix C. The samples were analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, TAL Metals by EPA Methods 6010 and 6020, Chlorinated Herbicides by EPA Method 8151, TCL Pesticides by EPA Method 8081, TCL PCBs by EPA Method 8082, Hexavalent Chromium by EPA Method 7196A, Total Cyanide by EPA Method 9012B, Mercury by EPA Method 7471A, and pH by ASTM 4972. A total of 7,051 tons of Item No. 4 backfill were placed onsite. Watermark submitted RFI No. 23, requesting permission to place Item No. 2 at the surface rather than Item No. 4 as specified in the Contract Drawings. URS granted permission for this, and 193 tons of Item No. 2 stone were placed at the surface in gravel restoration areas, as shown on Record Drawing POST-C-1. Gravel is currently at the surface across 1,550 square yards of the site.

4.2.9.9 Dewatering and Water Treatment

Watermark operated a construction water treatment system during the course of the excavation. In addition to the pieces of equipment noted in Section 4.2.3, Watermark incorporated two additional 21,000-gallon fractionalization tanks, two additional bag filters, and a zeolite (organoclay) vessel into the system. Watermark initially had difficulty treating the construction water to the discharge criteria. They requested and were granted permission to truck treated groundwater offsite for disposal initially. Watermark trucked 21,000 gallons of treated water to the Northwest Bergen County Utility Authority for disposal. The facility and hauler's permits and waste profile for the treated water offsite disposal is included in Appendix G.

Watermark was eventually able to reach the discharge criteria. Watermark would submit the groundwater data to URS for review and URS would grant permission to discharge. Field Order Nos. 11 through 18, 21 through 25, 26, 27, 29, and 30. Intially, Watermark collected one influent and one effluent sample, per every 7,000 gallons treated and analyzed for BTEX by EPA Method SW-846 8260C, TCL PAH by EPA SW-846 8270D, and TAL metals by EPA SW-846 6010B/7470A in accordance with the Contract Documents. Watermark later requested permission to reduce the frequency to one sample per 21,000 gallons of treated water in RFI No. 19. URS granted permission to reduce the sampling frequency. Watermark also requested permission to eliminate TAL metal analysis. URS granted permission to eliminate the analysis in Field Clarification Memo No. 2, based on favorable results for metals that had been received.

Watermark mixed spent activated carbon and zeolite in with the soil being shipped to Rapp Road for disposal. The weight of the spent treatment media was deduction from the soil weight prior to

invoicing. The tank bottoms from the18,000-gallon weir tank (approximately 25 cubic yards) were vacuumed out and transported offsite for disposal at Environmental Recovery Corporation of Pennsylvania (ERC) in Lancasterm, Pennsylvania.

Watermark completed Weekly Construction Water Management Reports which documented all maintenance completed at the system, sampling events, and quantity of water discharged. A total of 482,727 gallons of treated water was discharged to the Hudson River during the project. The weekly reports are included in Appendix P.

4.2.9.10 Leak Testing on Nearby Water Lines

URS retained New York Leak Detector to perform leak testing on the waterlines in the vicinity of the site, at the direction of the Department. They tested the water lines on three occasions. The lines were tested on December 15, 2015 during the pre-clearing for the sheet pile trench. The second test completed on February 16, 2016 prior to the beginning of excavation underneath the TCS. The final test was completed on August 1, 2016, during site restoration. There were no leaks detected during any of the tests. The reports from the testing are included in Appendix M.

4.2.10 Monitoring Well Installation and Well Decommissioning

Summit Drilling, Inc. (Summit), Watermark's subcontracted driller mobilized to the site on August 04, 2016 to install monitoring wells GW-06 and GW-07, shown on Record Drawing POST C-1. They also repaired well GW-05, which has been damaged during restoration. Monitoring Well GW-06 was installed to 12.5 feet below grade surface (BGS). Monitoring Well GW-07 was installed to12.25 feet BGS. The Well Construction Work Plan, well construction diagrams, boring logs, and development logs are included in Appendix M. Two drums of well development water and two drums of drilling spoils were generated as investigation derived waste (IDW) from the drilling operation and transported to ERC for disposal.

The monitoring wells designated for abandonment on Record Drawing C-004 were removed with the contaminated soil excavation.

4.2.11 Reporting and Community Comments

Reports for the Pre-Construction meeting, Project Progress Meetings (which occurred approximately bi-weekly) are included in electronic format in Appendix B. Daily reports, which include daily photographs, are included in electronic format in Appendix B. The URS maintained public relations personnel, remotely and in-person, during construction. Residents were asked to contact that personnel directly as issues and requests for information arose.

4.2.12 Disposal Summary

A total of 4,805 tons of soil were transported to Rapp Road and disposed as non-hazardous waste. A total of 4,696 tons of rock and soil mixed with rock were transported to Fort Edward and disposed of as non-hazardous waste. A total of 67 tons of soil was transported to Fort Edward and disposed of as hazardous waste. A total of 59 tons of building demolition debris were transported to the Watch Hill Transfer Station and disposed of as non-hazardous waste. A total of 21,000 gallons of treated construction water were transported to Northwest Bergen County Utility Authority. A total of 25 cubic yards of weir tank bottoms were transported to ERC and disposed of as non-hazardous waste. Two drums of development water and two drums of drilling spoils were transported to ERC and disposed of as non-hazardous waste. Weight tickets and waste manifests are included in Appendix F.

4.2.13 Demobilization and Restoration

Watermark mobilized a Volvo® SD75 Roller and John Deere® 450J LT Bulldozer to the site on June 10, 2016. They imported Item No. 4 backfill material and prepared the topsoil and gravel area subgrade until they began importing topsoil to the site on June 29, 2016. They spread L&M Geofabrics® LM 200 lb Grab Tensile Woven Stabilization Geotextile Fabric on top of the prepared Item No. 4 backfill in the topsoil restoration area. Topsoil was spread 2 feet thick over 762 square yards. Watermark collected samples of the topsoil for analysis prior to delivery to the site. The topsoil was sampled for TOC by ASTM D2974, pH by ASTM 4972, VOCs by EPA Method 8260, BNA, PCBs by EPA Method 8082, Chlorinated Herbicides by EPA Method 8151, Metals by EPA Methods 6010 and 6020, Cyanide by EPA Method 9012B, Hexavalent Chromium by EPA Method 7196A, and Trivalent Chromium. Analytical reports for the sampling are included in Appendix C.

Watermark spread U.S. Erosion Control Products, Inc.® US-2S Double Net Straw Blanket over the topsoil area and in the former office trailer and VMS areas. They spread Grand Champion® All Purpose Fertilizer and a seed mixture consisting of 49.81% rye grass, 33.25% tribute II tall fescue, 13.14% ladino clover, and 3.23% redtop in all three areas.

Watermark planted two bald cypress trees, one swap oak tree, and six serviceberry trees. URS received guidance on the tree locations from the Village of Cold Spring Tree Advisory Committee and relayed that information to Watermark. Submittals for all of the lawn materials are included in Appendix M. Watermark watered the trees and grass until September 2016. The final restoration plan at the site is shown on Record Drawing POST-C-1.

Per the request of the Boat Club, URS directed Watermark to replaced 114 square yards of the topsoil restoration area with stone. URS provided the direction in Field Order No. Field Order No. 32.

The Village requested that the utility trench that they installed prior to Watermark's mobilization to the site be restored along with the installation of pavement onsite. URS issued Field Order No. 33 to Watermark directing them to restore the trench. Watermark was compensated for this work. URS also issued Field Order No. 34 to Watermark, directing them to repair pavement at the site entrance at West Street and New Street that had been damaged during the course of the project. Con-Tech Construction Technology, Inc. (Con-Tech) completed the paving work on August 9, 2016. A 358 square yard area at the site has been restored with pavement.

Burke Services installed the Service Meter and Load Center for the Boat Club as shown on Record Drawing C-005. They also made the temporary panel that had been installed to power the construction water treatment system a permanent panel. The certification for that panel is included in Appendix M.

Watermark installed the new fencing from August 2, 2016 through August 5, 2016. They had submitted RFI No. 22 with a request to re-use the fence that was removed at mobilization. That request was denied. Watermark was directed to install new, Classic Victorian Western Red Cedar Picket Fence Type 707 Scalloped as manufactured by Eastern Wood Fencing, per the Village's request. This fence was installed.

Watermark completed post-construction inspections of the interior and exterior of the residences at 12 West Street, 14 West Street, 4 New Street, 8 New Street, 10 New Street, and 19 Market Street. URS

accompanied Watermark during the inspections. Watermark completed post-construction inspection reports for each residence. The reports are included in Appendix M.

Watermark's equipment was demobilized from the site by August 1, 2016. They remained onsite through the pavement installation on August 9, 2016. Mobilization was complete on August 9, 2016. Watermark returned to the site periodically through September 2016 to water the grass and trees.

4.3 Documentation/Compliance Sampling

A total of 13 compliance samples were collected during the contaminated soils excavation. They were labeled DOC-1 through DOC-13. Samples DOC-1 through DOC-11 were bottom documentation samples. Samples DOC-12 and DOC-13 were confirmation samples collected from the sidewalls in the additional excavation in the Geoprobe ® area. The samples were analyzed for BTEX by EPA Method 8260 and PAHs by EPA Method 8270. Samples DOC-2, DOC-9, DOC-10, and DOC-11 are bottom samples consisting of clay and fractured bedrock. Samples DOC-1, DOC-3, DOC-4, DOC-5, DOC-6, DOC-7, and DOC-8 are bottom samples consisting of clay. Samples DOC-12 and DOC-13 are sidewall samples consisting of clayey silt. The compliance sampling locations are shown on Figure 1. The analytical reports from the compliance sampling are included in Appendix C.

4.4 Contamination Remaining at the Site

The results of the compliance sampling are shown on Figure 1 and Table 5. The total PAH concentrations at compliance sample locations DOC-9 and DOC-10 are above the RAOs. Total PAHs were detected at 969 ppm in sample DOC-9. They were detected at 1,616 ppm in DOC-10. Total PAHs were detected in the remaining compliance samples below the 500 ppm.

The results also showed that documentation samples DOC-2 and DOC-7 through DOC-12 contained contaminants at concentrations above the 6 NYCRR Subpart 375-6 Restricted Residential Use SCOs. DOC-12 showed contaminant levels just slightly above the SCOs.

4.5 Engineering Controls

There are currently no engineering controls at the site.

4.6 Institutional Controls

The site remedy requires that an environmental easement be placed on the property to (1) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (2) limit the use and development of the Site to commercial or industrial uses only. A new environmental easement is forthcoming. The existing environmental easement for the site is included in Appendix A.

After completion of the remedial work, some contamination was left at this site, which is hereafter referred to as "remaining contamination". Institutional Controls (ICs) 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 Putnam County Clerk, requires compliance with the Site Management Plan (SMP) prepared for the site and all ICs placed on the site.

A series of ICs is required by the ROD to: (1) develop a site management plan; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to restricted residential, commercial and industrial uses only. Adherence to these ICs on the site is required by the Environmental Easement and will be implemented under the SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The existing environmental easement for the site is included in Appendix A. These ICs are:

- 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). The boundaries of the individual use areas are shown on the Easement Map in Appendix A;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;

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

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

- 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.

4.7 Deviations from the Plans and Specifications

Appendix I provides Change Orders from the Contract Documents implemented during the project.

At the recommendation of Watermark, and with the approval of URS, the entire lower waler was not installed on the sheet pile wall and the upper waler was not installed on the western section of the sheet pile wall.

At the recommendation of Watermark, and with URS approval, the excavation at TCS Location No. 1 was completed outside of the TCS. Watermark demobilized the TCS after excavation was complete at TCS Location No. 2 and completed the excavation at TCS Location No. 1 under odor suppressant foam.

FIGURES

POINT ID	NORTHING	EASTING	ELEVATION
DOC-1	941107.11	640273.09	-1.56
DOC-2	941046.66	640197.86	-4.74
DOC-3	941110.87	640250.65	-6.64
DOC-4	941074.85	640187.54	-6.38
DOC-5	941065.12	640168.51	-6.49
DOC-6	941148.74	640251.35	-4.76
DOC-7	941098.01	640188.98	-5.36
DOC-8	941059.39	640145.31	-6.70
DOC-9	941057.60	640250.02	-3.90
DOC-10	941021.22	640201.01	-3.40
DOC-11	941003.65	640174.67	-3.80
DOC-12	940995.91	640165.53	-1.00
DOC-13	941014.78	640167.85	-1.00

NEW STREET

DOC-8	CRIT	5/16
PAHs:		
Benzo[a]anthracene	1	1.2
Benzo[a]pyrene	1	1.1

DOC-7	CRIT	5/16
PAHs:		
Benzo[a]anthracene	1	2.6
Benzo[a]pyrene	1	2.1
Benzo[a]fluoranthene	1	1.8
Indeno[1,2,3-cd]pyrene	0.5	0.79

DOC-06

DOC-05

DOC-04

DOC-03

DOC-01

DOC-12	CRIT	6/16
PAHs:		
Benzo[a]anthracene	1	1.1
Benzo[a]fluoranthene	1	1.2

LIMITS OF EXCAVATION

DOC-13

DOC-2	CRIT	3/16
PAHs:		
Indeno[1,2,3-cd]pyrene	0.5	0.56

DOC-11	CRIT	6/16
PAHs:		
Benzo[a]anthracene	1	1.4
Benzo[a]pyrene	1	1.2
Benzo[a]fluoranthene	1	1.4

DOC-10	CRIT	6/16
PAHs:		
Total	500	1616.3

DOC-9	CRIT	6/16
VOCs:		
Benzene	4.8	66
Ethylbenzene	41	150
m&p-Xylenes	100	150
Toluene	100	110
Xylenes (total)	100	200
PAHs:		
Total	500	969.3

PROPERTY LINE (TYP.)

Legend

- Soil Sample - No Exceedances of RAOs or Recommended Criteria
- Soil Sample Exceeding Recommended Criteria: 6NYCRR Subpart 375-6 Restricted Residential Use SCOs
- Soil Sample Exceeding RAO: 500 mg/Kg Total PAHs
- Soil Sample Exceeding Both Criteria

NOTES:
(1) Results in mg/Kg.
(2) CRIT - Criteria: 6 NYCRR Subpart 375-6 Restricted Residential Use SCOs and 500 mg/Kg or more Total PAHs.
(3) Horizontal datum is based upon the New York State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83).
(4) Vertical datum is based upon the elevations of the monitoring wells established by William D. Youngblood Land Surveying, P.C. as shown on a drawing titled "Survey For Village Of Cold Spring", file #P-1001, dated 9/11/08, which was based upon the North American Vertical Datum of 1988 (NAVD88).
(5) All samples met RAO of being free of visible tar.

20 0 20 Feet

COLD SPRING FORMER MGP SITE
EXCEEDANCES OF RAOs AFTER REMEDY

URS

FIGURE 1

J:\Projects\60429529\MISC\GIS\Maps\DOC SAMPLING ANALYTICAL.mxd 3/28/2017

TABLES

COLD SPRING FORMER MGP SITE NO. 340026
RA CONTRACT D009635 BID TABULATION
BIDS OPENED ON JUNE 25, 2015 AT 1:00 P.M EST

TABLE 1

BID TABULATION

Results of June 25, 2015 Bid Opening:				Bidder: *Engineer's Estimate*		Bidder: *Average All Bids*		Bidder: *Watermark*	
Bid Rank:				N/A		N/A		1	
Payment Item No.	Bid Item Description	QTY	Units	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total
BI-1	Mobilization/Demobilization And Site Preparation (Limited to 15% of Total Bid)	1	LS	$ 298,999.31	$ 298,999.31	$ 366,827.60	$ 366,827.60	$ 186,499.02	**$ 186,499.02**
BI-2	Site Services (Limited to 10% of Total Bid Amount)	160	DAYS	$ 2,431.34	$ 389,014.40	$ 1,834.20	$ 293,472.32	$ 1,006.92	**$ 161,107.20**
BI-3	Health and Safety	130	DAYS	$ 1,326.29	$ 172,417.70	$ 1,020.75	$ 132,697.63	$ 961.27	**$ 124,965.10**
BI-4	Community Air Monitoring	130	DAYS	$ 253.77	$ 32,990.10	$ 478.86	$ 62,251.93	$ 182.42	**$ 23,714.60**
BI-5	Construction Water Management And Dewatering	1	LS	$ 49,931.91	$ 49,931.91	$ 298,120.10	$ 298,120.10	$ 106,425.60	**$ 106,425.60**
BI-6	Temporary Containment Structure and Vapor Management System	1	LS	$ 785,631.52	$ 785,631.52	$ 458,963.45	$ 458,963.45	$ 260,449.00	**$ 260,449.00**
BI-7	Clearing And Existing Building Demolition	1	LS	$ 33,749.27	$ 33,749.27	$ 87,465.95	$ 87,465.95	$ 16,942.67	**$ 16,942.67**
BI-8	Restoration	1	LS	$ 59,348.28	$ 59,348.28	$ 60,711.51	$ 60,711.51	$ 42,886.72	**$ 42,886.72**
BI-9	Sheeting And Shoring System	6,700	SF	$ 121.39	$ 813,313.00	$ 123.78	$ 829,352.80	$ 113.22	**$ 758,574.00**
BI-10	Contaminated Soil Excavation	4,600	CY	$ 23.87	$ 109,802.00	$ 36.24	$ 166,717.80	$ 36.70	**$ 168,820.00**
BI-11	Contaminated Materials Disposal	8,100	TONS	$ 105.44	$ 854,064.00	$ 92.06	$ 745,686.00	$ 70.36	**$ 569,916.00**
BI-12	Demolition Debris Disposal	150	TONS	$ 35.95	$ 5,392.50	$ 116.15	$ 17,422.95	$ 49.39	**$ 7,408.50**
BI-13	Well Decommissioning	35	LF	$ 127.76	$ 4,471.60	$ 161.45	$ 5,650.89	$ 104.77	**$ 3,666.95**
BI-14	Monitoring Well Installation	30	LF	$ 339.09	$ 10,172.70	$ 275.21	$ 8,256.27	$ 226.32	**$ 6,789.60**
BI-15	Granular Fill	6,100	TONS	$ 25.34	$ 154,574.00	$ 31.98	$ 195,102.40	$ 49.14	**$ 299,754.00**
BI-16	Stabilized Backfill	700	CY	$ 121.41	$ 84,987.00	$ 139.00	$ 97,299.30	$ 200.74	**$ 140,518.00**
BI-17	Compliance Samples	13	EACH	$ 300.89	$ 3,911.57	$ 650.18	$ 8,452.34	$ 1,216.70	**$ 15,817.10**
BI-18	Soil and Vegetation	680	SY	$ 41.90	$ 28,492.00	$ 44.86	$ 30,506.16	$ 27.00	**$ 18,360.00**
					$ 3,891,262.86		**$ 3,864,957.40**		**$ 2,912,614.06**

COLD SPRING FORMER MGP SITE NO. 340026
RA CONTRACT D009635 BID TABULATION
BIDS OPENED ON JUNE 25, 2015 AT 1:00 P.M EST

TABLE 1

BID TABULATION

Results of June 25, 2015 Bid Opening:				Bidder: *Land Remediation*		Bidder: *D.A. Collins Env.*	
Bid Rank:				2		3	
Payment Item No.	Bid Item Description	QTY	Units	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total
BI-1	Mobilization/Demobilization And Site Preparation (Limited to 15% of Total Bid)	1	LS	$ 476,000.00	**$ 476,000.00**	$ 339,000.00	**$ 339,000.00**
BI-2	Site Services (Limited to 10% of Total Bid Amount)	160	DAYS	$ 440.00	**$ 70,400.00**	$ 1,500.00	**$ 240,000.00**
BI-3	Health and Safety	130	DAYS	$ 1,050.00	**$ 136,500.00**	$ 800.00	**$ 104,000.00**
BI-4	Community Air Monitoring	130	DAYS	$ 350.00	**$ 45,500.00**	$ 160.00	**$ 20,800.00**
BI-5	Construction Water Management And Dewatering	1	LS	$ 215,000.00	**$ 215,000.00**	$ 295,000.00	**$ 295,000.00**
BI-6	Temporary Containment Structure and Vapor Management System	1	LS	$ 355,000.00	**$ 355,000.00**	$ 480,000.00	**$ 480,000.00**
BI-7	Clearing And Existing Building Demolition	1	LS	$ 20,000.00	**$ 20,000.00**	$ 21,000.00	**$ 21,000.00**
BI-8	Restoration	1	LS	$ 41,000.00	**$ 41,000.00**	$ 35,000.00	**$ 35,000.00**
BI-9	Sheeting And Shoring System	6,700	SF	$ 120.00	**$ 804,000.00**	$ 116.00	**$ 777,200.00**
BI-10	Contaminated Soil Excavation	4,600	CY	$ 30.00	**$ 138,000.00**	$ 42.00	**$ 193,200.00**
BI-11	Contaminated Materials Disposal	8,100	TONS	$ 95.00	**$ 769,500.00**	$ 69.75	**$ 564,975.00**
BI-12	Demolition Debris Disposal	150	TONS	$ 123.00	**$ 18,450.00**	$ 180.00	**$ 27,000.00**
BI-13	Well Decommissioning	35	LF	$ 123.00	**$ 4,305.00**	$ 33.00	**$ 1,155.00**
BI-14	Monitoring Well Installation	30	LF	$ 240.00	**$ 7,200.00**	$ 260.00	**$ 7,800.00**
BI-15	Granular Fill	6,100	TONS	$ 26.00	**$ 158,600.00**	$ 34.00	**$ 207,400.00**
BI-16	Stabilized Backfill	700	CY	$ 122.00	**$ 85,400.00**	$ 124.00	**$ 86,800.00**
BI-17	Compliance Samples	13	EACH	$ 720.00	**$ 9,360.00**	$ 300.00	**$ 3,900.00**
BI-18	Soil and Vegetation	680	SY	$ 62.00	**$ 42,160.00**	$ 35.00	**$ 23,800.00**
					$ 3,396,375.00		**$ 3,428,030.00**

COLD SPRING FORMER MGP SITE NO. 340026
RA CONTRACT D009635 BID TABULATION
BIDS OPENED ON JUNE 25, 2015 AT 1:00 P.M EST

TABLE 1

BID TABULATION

Results of June 25, 2015 Bid Opening:				Bidder: *SCE Environ Grp*		Bidder: *Env. Services Grp*		Bidder: *True Blue Env.*	
			Bid Rank:	4		5		6	
Payment Item No.	Bid Item Description	QTY	Units	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total
BI-1	Mobilization/Demobilization And Site Preparation (Limited to 15% of Total Bid)	1	LS	$ 300,000.00	$ 300,000.00	$ 280,000.00	$ 280,000.00	$ 480,000.00	$ 480,000.00
BI-2	Site Services (Limited to 10% of Total Bid Amount)	160	DAYS	$ 1,744.00	$ 279,040.00	$ 725.00	$ 116,000.00	$ 5,000.00	$ 800,000.00
BI-3	Health and Safety	130	DAYS	$ 733.00	$ 95,290.00	$ 1,150.00	$ 149,500.00	$ 500.00	$ 65,000.00
BI-4	Community Air Monitoring	130	DAYS	$ 107.00	$ 13,910.00	$ 360.00	$ 46,800.00	$ 500.00	$ 65,000.00
BI-5	Construction Water Management And Dewatering	1	LS	$ 479,868.00	$ 479,868.00	$ 295,000.00	$ 295,000.00	$ 300,000.00	$ 300,000.00
BI-6	Temporary Containment Structure and Vapor Management System	1	LS	$ 361,032.00	$ 361,032.00	$ 445,000.00	$ 445,000.00	$ 300,000.00	$ 300,000.00
BI-7	Clearing And Existing Building Demolition	1	LS	$ 24,011.00	$ 24,011.00	$ 29,000.00	$ 29,000.00	$ 350,000.00	$ 350,000.00
BI-8	Restoration	1	LS	$ 81,326.00	$ 81,326.00	$ 32,500.00	$ 32,500.00	$ 100,000.00	$ 100,000.00
BI-9	Sheeting And Shoring System	6,700	SF	$ 128.36	$ 860,012.00	$ 165.00	$ 1,105,500.00	$ 67.16	$ 449,972.00
BI-10	Contaminated Soil Excavation	4,600	CY	$ 29.00	$ 133,400.00	$ 47.50	$ 218,500.00	$ 20.00	$ 92,000.00
BI-11	Contaminated Materials Disposal	8,100	TONS	$ 94.85	$ 768,285.00	$ 100.00	$ 810,000.00	$ 85.00	$ 688,500.00
BI-12	Demolition Debris Disposal	150	TONS	$ 64.00	$ 9,600.00	$ 123.00	$ 18,450.00	$ 100.00	$ 15,000.00
BI-13	Well Decommissioning	35	LF	$ 132.00	$ 4,620.00	$ 145.00	$ 5,075.00	$ 100.00	$ 3,500.00
BI-14	Monitoring Well Installation	30	LF	$ 254.00	$ 7,620.00	$ 245.00	$ 7,350.00	$ 150.00	$ 4,500.00
BI-15	Granular Fill	6,100	TONS	$ 19.75	$ 120,475.00	$ 25.00	$ 152,500.00	$ 25.00	$ 152,500.00
BI-16	Stabilized Backfill	700	CY	$ 150.00	$ 105,000.00	$ 125.00	$ 87,500.00	$ 150.00	$ 105,000.00
BI-17	Compliance Samples	13	EACH	$ 532.00	$ 6,916.00	$ 450.00	$ 5,850.00	$ 500.00	$ 6,500.00
BI-18	Soil and Vegetation	680	SY	$ 90.00	$ 61,200.00	$ 42.00	$ 28,560.00	$ 15.00	$ 10,200.00
					$ 3,711,605.00		$ 3,833,085.00		$ 3,987,672.00

COLD SPRING FORMER MGP SITE NO. 340026
RA CONTRACT D009635 BID TABULATION
BIDS OPENED ON JUNE 25, 2015 AT 1:00 P.M EST

TABLE 1

BID TABULATION

Results of June 25, 2015 Bid Opening:				Bidder: *Abscope Environmental*		Bidder: *Charter Contracting Co. LLC*		Bidder: *Mark Cerrone, Inc.*	
			Bid Rank:	7		8		9	
Payment Item No.	Bid Item Description	QTY	Units	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total
BI-1	Mobilization/Demobilization And Site Preparation (Limited to 15% of Total Bid)	1	LS	$ 615,000.00	$ 615,000.00	$ 644,000.00	$ 644,000.00	$ 282,777.00	$ 282,777.00
BI-2	Site Services (Limited to 10% of Total Bid Amount)	160	DAYS	$ 2,562.10	$ 409,936.00	$ 745.00	$ 119,200.00	$ 1,614.00	$ 258,240.00
BI-3	Health and Safety	130	DAYS	$ 621.74	$ 80,826.20	$ 1,750.00	$ 227,500.00	$ 1,091.50	$ 141,895.00
BI-4	Community Air Monitoring	130	DAYS	$ 813.19	$ 105,714.70	$ 1,100.00	$ 143,000.00	$ 86.00	$ 11,180.00
BI-5	Construction Water Management And Dewatering	1	LS	$ 375,407.43	$ 375,407.43	$ 363,000.00	$ 363,000.00	$ 611,000.00	$ 611,000.00
BI-6	Temporary Containment Structure and Vapor Management System	1	LS	$ 515,572.45	$ 515,572.45	$ 599,000.00	$ 599,000.00	$ 687,581.00	$ 687,581.00
BI-7	Clearing And Existing Building Demolition	1	LS	$ 17,321.78	$ 17,321.78	$ 50,000.00	$ 50,000.00	$ 181,384.00	$ 181,384.00
BI-8	Restoration	1	LS	$ 49,602.40	$ 49,602.40	$ 80,000.00	$ 80,000.00	$ 79,800.00	$ 79,800.00
BI-9	Sheeting And Shoring System	6,700	SF	$ 101.10	$ 677,370.00	$ 123.00	$ 824,100.00	$ 135.00	$ 904,500.00
BI-10	Contaminated Soil Excavation	4,600	CY	$ 36.58	$ 168,268.00	$ 44.00	$ 202,400.00	$ 40.00	$ 184,000.00
BI-11	Contaminated Materials Disposal	8,100	TONS	$ 99.14	$ 803,034.00	$ 78.50	$ 635,850.00	$ 88.00	$ 712,800.00
BI-12	Demolition Debris Disposal	150	TONS	$ 141.14	$ 21,171.00	$ 144.00	$ 21,600.00	$ 121.00	$ 18,150.00
BI-13	Well Decommissioning	35	LF	$ 123.77	$ 4,331.95	$ 114.00	$ 3,990.00	$ 253.00	$ 8,855.00
BI-14	Monitoring Well Installation	30	LF	$ 237.77	$ 7,133.10	$ 219.00	$ 6,570.00	$ 259.00	$ 7,770.00
BI-15	Granular Fill	6,100	TONS	$ 33.20	$ 202,520.00	$ 45.00	$ 274,500.00	$ 35.00	$ 213,500.00
BI-16	Stabilized Backfill	700	CY	$ 121.00	$ 84,700.00	$ 102.00	$ 71,400.00	$ 184.00	$ 128,800.00
BI-17	Compliance Samples	13	EACH	$ 977.10	$ 12,702.30	$ 700.00	$ 9,100.00	$ 576.00	$ 7,488.00
BI-18	Soil and Vegetation	680	SY	$ 49.57	$ 33,707.60	$ 29.00	$ 19,720.00	$ 71.00	$ 48,280.00
					$ 4,184,318.91		$ 4,294,930.00		$ 4,488,000.00

COLD SPRING FORMER MGP SITE NO. 340026
RA CONTRACT D009635 BID TABULATION
BIDS OPENED ON JUNE 25, 2015 AT 1:00 P.M EST

TABLE 1

BID TABULATION

Results of June 25, 2015 Bid Opening:				Bidder: *Possillico Env Inc*		Bidder: *Connecticut Tank Removal*	
	Bid Rank:			10		11	
Payment Item No.	Bid Item Description	QTY	Units	Unit Price Cost	Bid Item Total	Unit Price Cost	Bid Item Total
BI-1	Mobilization/Demobilization And Site Preparation (Limited to 15% of Total Bid)	1	LS	$ 564,000.00	**$ 564,000.00**	$ 145,000.00	**$ 145,000.00**
BI-2	Site Services (Limited to 10% of Total Bid Amount)	160	DAYS	$ 2,850.00	**$ 456,000.00**	$ 900.00	**$ 144,000.00**
BI-3	Health and Safety	130	DAYS	$ 1,200.00	**$ 156,000.00**	$ 2,100.00	**$ 273,000.00**
BI-4	Community Air Monitoring	130	DAYS	$ 1,000.00	**$ 130,000.00**	$ 1,230.00	**$ 159,900.00**
BI-5	Construction Water Management And Dewatering	1	LS	$ 285,000.00	**$ 285,000.00**	$ 18,500.00	**$ 18,500.00**
BI-6	Temporary Containment Structure and Vapor Management System	1	LS	$ 830,000.00	**$ 830,000.00**	$ 355,000.00	**$ 355,000.00**
BI-7	Clearing And Existing Building Demolition	1	LS	$ 150,000.00	**$ 150,000.00**	$ 65,000.00	**$ 65,000.00**
BI-8	Restoration	1	LS	$ 100,000.00	**$ 100,000.00**	$ 45,000.00	**$ 45,000.00**
BI-9	Sheeting And Shoring System	6,700	SF	$ 121.00	**$ 810,700.00**	$ 171.00	**$ 1,145,700.00**
BI-10	Contaminated Soil Excavation	4,600	CY	$ 35.00	**$ 161,000.00**	$ 45.65	**$ 209,990.00**
BI-11	Contaminated Materials Disposal	8,100	TONS	$ 81.00	**$ 656,100.00**	$ 137.50	**$ 1,113,750.00**
BI-12	Demolition Debris Disposal	150	TONS	$ 110.00	**$ 16,500.00**	$ 150.00	**$ 22,500.00**
BI-13	Well Decommissioning	35	LF	$ 100.00	**$ 3,500.00**	$ 500.00	**$ 17,500.00**
BI-14	Monitoring Well Installation	30	LF	$ 130.00	**$ 3,900.00**	$ 750.00	**$ 22,500.00**
BI-15	Granular Fill	6,100	TONS	$ 25.00	**$ 152,500.00**	$ 47.75	**$ 291,275.00**
BI-16	Stabilized Backfill	700	CY	$ 150.00	**$ 105,000.00**	$ 63.25	**$ 44,275.00**
BI-17	Compliance Samples	13	EACH	$ 330.00	**$ 4,290.00**	$ 900.00	**$ 11,700.00**
BI-18	Soil and Vegetation	680	SY	$ 15.00	**$ 10,200.00**	$ 42.05	**$ 28,594.00**
					$ 4,594,690.00		**$ 4,113,184.00**

TABLE 2
COST REPORT

Project:	Cold Spring Fomer MGP Site Remediation	Contract Number	D009635
		Work Period	10/13/15 through 8/12/16

SCHEDULE V **JOB PROGRESS**

Itemized Proposal					Work Completed to Date		
Item No.	Unit Price	Estimated Quantity	Type of Work	COLUMN 1 Contract Amount	Actual Quantity	COLUMN 2 Amount	Code
BI-1	$ 186,499.02	1	LS	$ 186,499.02	100.00%	$186,499.02	
BI-2	$ 1,006.92	160	Day	$ 161,107.20	160.00	$161,107.20	
BI-3	$ 961.27	130	Day	$ 124,965.10	130.00	$124,965.10	
BI-4	$ 182.42	130	Day	$ 23,714.60	130.00	$23,714.60	
BI-5	$ 106,425.60	1	LS	$ 106,425.60	100.00%	$106,425.60	
BI-6	$ 260,449.00	1	LS	$ 260,449.00	100.00%	$260,449.00	
BI-7	$ 16,942.67	1	LS	$ 16,942.67	100.00%	$16,942.67	
BI-8	$ 42,886.72	1	LS	$ 42,886.72	100.00%	$42,886.72	
BI-9	$ 113.22	6,700	SF	$ 758,574.00	6700	$758,574.00	
BI-10	$ 36.70	4,600	CY	$ 168,820.00	4600.00	$168,820.00	
BI-11	$ 70.36	8100	Ton	$ 569,916.00	8100.00	$569,916.00	
BI-12	$ 49.39	150	Ton	$ 7,408.50	150.00	$7,408.50	
BI-13	$ 104.77	35	LF	$ 3,666.95	35.00	$3,666.95	
BI-14	$ 226.32	30	LF	$ 6,789.60	30.00	$6,789.60	
BI-15	$ 49.14	6,100	Ton	$ 299,754.00	6100.00	$299,754.00	
BI-16	$ 200.74	700	CY	$ 140,518.00	700.00	$140,518.00	
BI-17	$ 1,216.70	13	EA	$ 15,817.10	13.00	$15,817.10	
BI-18	$ 27.00	680	SY	$ 18,360.00	680.00	$18,360.00	
BI-19				$ -		$0.00	
BI-20				$ -		$0.00	
BI-21				$ -		$0.00	
BI-22				$ -		$0.00	
BI-23				$ -		$0.00	
BI-24				$ -		$0.00	
Liquidated Damages		0				$0.00	
Credits		0				$0.00	
			Totals	**$ 2,912,614.06**		**$2,912,614.06**	

SCHEDULE VI APPROVED CHANGE ORDERS

COLUMN 1			WORK %		COLUMN 2			COLUMN 1	WORK %		COLUMN 2
No.	+ -	Additions-Deletions	Prior	New	Value Earned to Date	No.	+ -	Additions - Deductions	Prior	New	Valued Earned To Date
1		**$ 256,869.53**	95.7	4.3	**$ 256,869.53**				**SUBTOTAL**		
		$ 459,112.69		100	**$ 459,112.69**			$ 715,982.22			**$ 715,982.22**
					$ -			$ -			$ -
					$ -						$ -
					$ -						$ -
					$ -						$ -
					$ -						$ -
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					$ -						$ -
					$ -						$ -
					$ -						$ -
(SUB) TOTAL		**$ 715,982.22**			**$ 715,982.22**		**TOTAL**	**$ 715,982.22**			**$ 715,982.22**

Total Contract Cost: **$ 3,628,596.28 (Authorized)** **$ 3,628,596.28 (Actual)**

TABLE 3

COLD SPRING FORMER MGP SITE REMEDIATION

LIST OF CONTRACTORS/CONSULTANTS AND SUPPLIERS

Name	Abbreviation/Acronym	Address	Responsibilities
Watermark Environmental Incorporated	Watermark	175 Cabot Street; Lowell, MA 01854	Prime contractor for the project
Pine Environmental	Pine	Windsor Industrial Park; 92 N. Main Street #20; Windsor, NJ 08561	Supplier of Community Air, Noise, and Vibration Monitoring Equipment
Got To Go	Got To Go	2 Bayview Road; Cortlandt Manor, NY 10567	Supplier of portable lavatories.
Hertz Equipment Rental	Hertz	49 Wesley St., South; Hackensack, NJ 07606	Supplier of heavy rental equipment.
Williams Scotsman, Inc.	Williams Scotsman	35 Ford Lane; Kearny, NJ 07032	Supplier of office trailers.
National Construction Rentals	National	Brooklyn, NY 11201	Supplier of temporary site chain link fencing
NMB Land Surveying, PLLC	NMB	20 Troy Ave.; Wynantskill, NY 12198	Completed land surveying at the site.
Fossati Plumbing and Heating, Inc.	Fossati	54 Sodom Road; Brewster, NY 10509	Capped sewer line on New Street
Pizzella Brothers, Inc.	Pizzella	7 Dogwood Road; Cortlandt Manor, NY 10567	Capped water line on New Street
Royal Carting Co.	RCO	409 NY-82; Hopewell Junction NY 12533	Provided sanitation services for the site.
			Transported and accepted Boat Club Building and Clearing Debris
			Accepted universal waste from Boat Club Building.
Burke Services	Burke	73 U.S. 9 #9; Fishkill, NY 12524	Provided electrical installation services at the site.
Capitol Environmental Services	Capitol	200 Biddle Ave.; Suite 205; Newark, DE 19702	Waste broker for Watermark
Bonded Concrete, Inc.	Bonded Concrete	410 North Ave.; Pleasant Valley, NY 12569	Supplier of flowable fill.
Advanced Testing Co., Inc.	Advanced Testing	3348 NY-208; Campbell Hall, NY 10916	Flowable fill testing laboratory.
Hampton-Clarke, Inc.	Hampton-Clarke	175 US-46 D; Fairfield, NJ 07004	Provided analytical services.
J.M. Kelc Marine Contractors, Inc.	Kelc	367 Windsor Highway; Suite 428; New Windsor, NY 12553	Installed sheeting and shoring system at the site.
Allsite Structure Rentals	Allsite	5025 Schuster St.; Las Vegas, NV 89118	Supplied and erected temporary containment structure.
Tigg, LLC	Tigg	1 Willow Ave; Oakdale, PA 15071	Supplier of vapor management system.
Rain For Rent	Rain For Rent	4801-A Tremley Point Rd.; Linden, NJ 07030	Supplier of water treatment equipment.
K & D Industries of NY, LLC	K & D	129 Gallows Hill Road; Cortlandt Manor, NY 10567	Supplier of backfill materials for the site.
Organic Recycling, Inc.	Organic Recycling	117A Route 303; Tappan, NY 10983	Supplier of topsoil for the site.
Summit Drilling, Inc.	Summit	9 Chimney Rock Road; Bound Brook, NJ 08805	Installed monitoring wells onsite.
Con-Tech Construction Technology, Inc.	Con-Tech	28 Lakeview Dr, Yorktown Heights, NY 10598	Installed asphalt at the site.
Willow Ridge, Inc.	Willow Ridge	1348 Route 52; Fishkill, NY 12524	Supplier of trees for the site.
Hydrovac Excavating, Inc.	Hydrovac Excavating	2102 NY-300; Wallkill, NY 12589	Vacuumed vapor-phase activated carbon and deposited it onsite for disposal.
Aquifer Drilling and Testing, Inc.	ADT	75 E 2nd St.; Mineola, NY 11501	Performed Geoprobe ® sampling
Ben Ciccone, Inc.	Ciccone	151 Daley Road; Poughkeepsie, NY 12603	Supplier of Jersey Barriers for the site.
Millens Scrap Metal Recycling	Millens	20 Van Kleeck Dr.; Poughkeepsie, NY 12601	Hauled and accepted scrap metal from the site.
Techtonic Engineering and Surveying Consultants, P.C.	Techtonic	1279 Route 300; Newburgh, NY 12550	Geotechnical subcontractor to Kelc.
Olori Crane Services, Inc.	Olori	11 Seeger Dr, Nanuet, NY 10954	Loaded out VMS components for demobilization
Electric Incorporated	Electric	Newburgh, NY 12550	Subcontractor to Tigg. Repaired VMS.
A-AMP Electric Corporation	AMP	46 Tomahawk St, Baldwin Place, NY 10505	Pulled hanging electrical wire from southeastern utility pole at site.

TABLE 4

COLD SPRING FORMER MGP SITE REMEDIATION

GEOPROBE ® SAMPLING ANALYTICAL RESULTS

Soil Boring Location	Boring Depth Completed (ft)	Sample Interval (ft)	Total PAHs (ppm)	Total BTEX (ppm)	Comments
WB-1	15	10-12.5	24.18	0.3012	Strong petroleum odor and staining at 10.6-10.8 ft; Faint petroleum odor at 10.8-15 ft
		12.5-15	0.021	0.1528	
WB-2	15	10-12	21.54	0.875	Faint petroleum odor at 10-10.5 ft
		12-15	0.061	ND	
WB-3	9.7	5-6.3	3.598	0.0275	Light petroleum staining at 5-6.3 ft; Heavy petroleum odor and staining at 6.3-9.7 ft
		6.3-9.7	251.6	34.93	
WB-4	14.3	5-6.3	5.22	0.0661	Petroleum odor, black staining, and NAPL/sheen at 5.8-10 ft
		6.3-10	714	17.502	
		10-14.3	1.146	0.0012	

Notes:

No BTEX exceedances above Part 375 Restricted Residential Criteria; Some individual PAH concentrations exceeded Part 375 Restricted Residential Criteria.

- Denotes exceedance of 500 ppm for Total PAHs.

TABLE 5
DOCUMENTATION SAMPLING ANALYTICAL RESULTS

				CLIENT ID:	DOC-1		DOC-2		DOC-3		DOC-4		DOC-5		DOC-6		DOC-7	
				LAB ID:	AC90093-001		AC90441-001/-002		AC90572-001/-002		AC90646-001/-002		AC90644-001/-002		AC91485-001/-002		AC91485-003/-004	
				COLLECTION DATE:	3/8/2016		3/29/2016		4/4/2016		4/5/2016		4/8/2016		5/17/2016		5/18/2016	
				SAMPLE MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
				SAMPLE UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			6 NYCRR Subpart 375-6 Restricted Residential Use SCOs															
TestCode	CAS#	Analyte	mg/Kg		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
		Polycyclic Aromatic Hydrocarbons (PAHs)																
BNA-8270	83-32-9	Acenaphthene	100		ND	0.041	2.2	0.045	ND	0.040	0.44	0.15	0.56	0.051	ND	0.039	2.3	0.14
BNA-8270	208-96-8	Acenaphthylene	100		ND	0.041	0.34	0.045	ND	0.040	ND	0.15	0.090	0.051	ND	0.039	0.41	0.14
BNA-8270	120-12-7	Anthracene	100		ND	0.041	1.4	0.045	0.067	0.040	0.24	0.15	0.26	0.051	ND	0.039	2.2	0.14
BNA-8270	56-55-3	Benzo[a]anthracene	1		ND	0.041	1.9	0.045	0.065	0.040	0.23	0.15	0.55	0.051	ND	0.039	2.6	0.14
BNA-8270	50-32-8	Benzo[a]pyrene	1		ND	0.041	1.3	0.045	0.042	0.040	0.16	0.15	0.43	0.051	ND	0.039	2.1	0.14
BNA-8270	205-99-2	Benzo[b]fluoranthene	1		ND	0.041	1.2	0.045	ND	0.040	0.16	0.15	0.41	0.051	ND	0.039	1.8	0.14
BNA-8270	191-24-2	Benzo[g,h,i]perylene	100		ND	0.041	0.84	0.011	ND	0.040	ND	0.15	0.24	0.051	ND	0.039	1.2	0.14
BNA-8270	207-08-9	Benzo[k]fluoranthene	3.9		ND	0.041	0.34	0.045	ND	0.040	ND	0.15	0.14	0.051	ND	0.039	0.58	0.14
BNA-8270	218-01-9	Chrysene	3.9		ND	0.041	1.7	0.045	0.056	0.040	0.21	0.15	0.52	0.051	ND	0.039	2.5	0.14
BNA-8270	53-70-3	Dibenzo[a,h]anthracene	0.33		ND	0.041	0.25	0.045	ND	0.040	ND	0.15	0.077	0.051	ND	0.039	0.34	0.14
BNA-8270	206-44-0	Fluoranthene	100		ND	0.041	2.4	0.045	0.098	0.040	0.32	0.15	0.83	0.051	ND	0.039	3.5	0.14
BNA-8270	86-73-7	Fluorene	100		ND	0.041	1.4	0.045	0.045	0.040	0.24	0.15	0.20	0.051	ND	0.039	1.6	0.14
BNA-8270	193-39-5	Indeno[1,2,3-cd]pyrene	0.5		ND	0.041	0.56	0.045	ND	0.040	ND	0.15	0.17	0.051	ND	0.039	0.79	0.14
BNA-8270	91-20-3	Naphthalene	100		0.021	0.010	1.9	0.011	0.039	0.0099	4.5	0.038	2.3	0.013	ND	0.039	0.86	0.036
BNA-8270	85-01-8	Phenanthrene	100		ND	0.041	4.2	0.045	0.25	0.040	0.85	0.15	0.79	0.051	ND	0.039	5.7	0.140
BNA-8270	129-00-0	Pyrene	100		ND	0.041	4.0	0.045	0.15	0.040	0.51	0.15	1.20	0.051	ND	0.039	6.0	0.14
		Volatiles																
VO-8260	71-43-2	Benzene	4.8		ND	0.00061	ND	0.00070	ND	0.00062	0.16	0.043	0.16	0.051	ND	0.00086	0.12	0.047
VO-8260	100-41-4	Ethylbenzene	41		ND	0.00061	0.0016	0.00070	0.0062	0.00062	1.1	0.087	1.3	0.10	ND	0.00086	1.3	0.095
VO-8260	179601-23-1	m&p-Xylenes	100		ND	0.00061	0.0022	0.00070	0.012	0.00062	0.82	0.087	0.91	0.10	ND	0.00086	0.66	0.095
VO-8260	95-47-6	o-Xylene	100		ND	0.00061	0.0017	0.00070	0.0032	0.00062	0.92	0.087	0.93	0.10	ND	0.00086	0.87	0.095
VO-8260	108-88-3	Toluene	100		ND	0.00061	0.00098	0.00070	0.0045	0.00062	ND	0.087	ND	0.10	ND	0.00086	ND	0.095
VO-8260	1330-20-7	Xylenes (Total)	100		ND	0.00061	0.0039	0.00070	0.015	0.00062	1.7	0.087	1.8	0.10	ND	0.00086	1.5	0.095

mg/Kg - milligrams per kilogram
ND - Not Detected

- Denotes exceedance of 6 NYCRR Subpart 375-6 Restricted Residential Use SCOs

TABLE 5
DOCUMENTATION SAMPLING ANALYTICAL RESULTS

				CLIENT ID:	DOC-8		DOC-9		DOC-10		DOC-11		DOC-12		DOC-13	
				LAB ID:	AC91485-005/-006		AC91685-001/-002		AC91691-001/-002		AC91718-001/-002		AC91758-001/-002		AC91758-003/-004	
				COLLECTION DATE:	5/19/2016		6/2/2016		6/6/2016		6/8/2016		6/9/2016		6/9/2016	
				SAMPLE MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil	
				SAMPLE UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			6 NYCRR Subpart 375-6 Restricted Residential Use SCOs													
TestCode	CAS#	Analyte	mg/Kg		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
		Polycyclic Aromatic Hydrocarbons (PAHs)														
BNA-8270	83-32-9	Acenaphthene	100		0.82	0.048	55	4.2	64	8.8	0.47	0.041	0.34	0.038	0.072	0.038
BNA-8270	208-96-8	Acenaphthylene	100		0.23	0.048	19	4.2	36	8.8	0.24	0.041	0.16	0.038	ND	0.038
BNA-8270	120-12-7	Anthracene	100		0.86	0.048	46	4.2	100	8.8	0.78	0.041	0.54	0.038	0.13	0.038
BNA-8270	56-55-3	Benzo[a]anthracene	1		1.2	0.048	43	4.2	84	8.8	1.4	0.041	1.1	0.038	0.46	0.038
BNA-8270	50-32-8	Benzo[a]pyrene	1		1.1	0.048	37	4.2	57	8.8	1.2	0.041	0.98	0.038	0.56	0.038
BNA-8270	205-99-2	Benzo[b]fluoranthene	1		0.92	0.048	32	4.2	66	8.8	1.4	0.041	1.2	0.038	0.51	0.038
BNA-8270	191-24-2	Benzo[g,h,i]perylene	100		0.81	0.048	20	4.2	24	8.8	0.66	0.041	0.68	0.038	0.59	0.038
BNA-8270	207-08-9	Benzo[k]fluoranthene	3.9		0.24	0.048	10	4.2	26	8.8	0.43	0.041	0.31	0.038	0.13	0.038
BNA-8270	218-01-9	Chrysene	3.9		1.2	0.048	44	4.2	67	8.8	1.4	0.041	1.0	0.038	0.46	0.038
BNA-8270	53-70-3	Dibenzo[a,h]anthracene	0.33		0.21	0.048	6.3	4.2	9.3	8.8	0.30	0.041	0.24	0.038	0.15	0.038
BNA-8270	206-44-0	Fluoranthene	100		1.5	0.048	57	4.2	180	8.8	1.8	0.041	1.3	0.038	0.40	0.038
BNA-8270	86-73-7	Fluorene	100		0.63	0.048	47	4.2	110	8.8	0.58	0.041	0.38	0.038	0.062	0.038
BNA-8270	193-39-5	Indeno[1,2,3-cd]pyrene	0.5		0.47	0.048	13	4.2	23	8.8	0.56	0.041	0.53	0.038	0.33	0.038
BNA-8270	91-20-3	Naphthalene	100		0.13	0.012	270	0.012	320	2.2	0.33	0.010	0.41	0.0095	0.085	0.0095
BNA-8270	85-01-8	Phenanthrene	100		2.1	0.048	170	4.2	300	8.8	1.7	0.041	1.4	0.038	0.46	0.038
BNA-8270	129-00-0	Pyrene	100		3.1	0.048	100	4.2	150	8.8	2.5	0.041	1.6	0.038	0.80	0.038
		Volatiles														
VO-8260	71-43-2	Benzene	4.8		ND	0.0013	66	0.74	0.73	0.60	ND	0.0011	ND	0.00095	ND	0.0010
VO-8260	100-41-4	Ethylbenzene	41		ND	0.0013	150	1.5	26	1.2	0.016	0.0011	0.0021	0.00095	ND	0.0010
VO-8260	179601-23-1	m&p-Xylenes	100		ND	0.0013	150	1.5	27	1.2	0.013	0.0011	0.0018	0.00095	ND	0.0010
VO-8260	95-47-6	o-Xylene	100		ND	0.0013	53	1.5	13	1.2	0.0080	0.0011	0.0015	0.00095	ND	0.0010
VO-8260	108-88-3	Toluene	100		ND	0.0013	110	1.5	2.4	1.2	0.0024	0.0011	0.0017	0.00095	ND	0.0010
VO-8260	1330-20-7	Xylenes (Total)	100		ND	0.0013	200	1.5	40	1.2	0.021	0.0011	0.0033	0.00095	ND	0.0010

mg/Kg - milligrams per kilogram
ND - Not Detected

- Denotes exceedance of 6 NYCRR Subpart 375-6 Restricted Residential Use SCOs

APPENDIX A

SURVEY METES AND BOUNDS AND ENVIRONMENTAL EASEMENT

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

THIS INDENTURE made this 17th day of January, 2013 between Owner(s) Village of Cold Spring, a municipal corporation having an office at 85 Main Street, Cold Spring, County of Putnam, 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 5 New Street in the Village of Cold Spring, County of Putnam and State of New York, known and designated on the tax map of the County Clerk of Putnam as tax map parcel numbers: Section 48.12 Block 1 Lot 51, being the same as that property conveyed to Grantor by deed dated October 3, 1967 and recorded in the Putnam County Clerk's Office in Liber 655 of deeds at Page 338. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.977+/- acres, and is hereinafter more fully described in the Land Title Survey dated November 10, 2010 and revised March 12, 2012 prepared by Badey & Watson, Surveying and Engineering, P.C., which will be attached to the Site Management Plan. The Controlled Property description and survey is set forth in and attached hereto as 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 State Assistance Contract Number: C303647, 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) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(5) 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;

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

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

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

(9) 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 annually, or such time as NYSDEC may allow, 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: 340026
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.

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

Grantor: Village of Cold Spring

By: Seth Gallagher

Print Name: SETH GALLAGHER

Title: MAYOR Date: 11/9/12

Grantor's Acknowledgment

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

On the 9th day of November in the year 20 12, before me, the undersigned, personally appeared Seth Gallagher, 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.

Cathy L. Costello
Notary Public - State of New York

CATHY L. COSTELLO
NOTARY PUBLIC, STATE OF NEW YORK
NO. 01CO6118728
QUALIFIED IN PUTNAM COUNTY
COMMISSION EXPIRES NOV. 15, 2012

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, ~~Acting~~ Director
Division of Environmental Remediation

Grantee's Acknowledgment

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

On the 17th day of January, in the year 2013, 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, 2014

SCHEDULE "A"
ENVIRONMENTAL EASEMENT PROPERTY DESCRIPTION

Village of Cold Spring (Former MGP)
Property Address: 5 New Street, Cold Spring, NY 10516
Tax Map: 48.12-1-51

File No. 79-102
Work Order No. 20304
File Name: CS09DC10BD_Boat_Club_Env_ Easementl.doc
Date Created: February 10, 2012
Date Revised:
Date Printed:
Figure No. 111
Author: GJW

Description of Easement
prepared for
Village of Cold Spring
Environmental Easement on ALTA Survey of Boat Club

AN EASEMENT over, under and through that certain parcel of land situate in the Village of Cold Spring, Town of Philipstown, County of Putnam, and State of New York that is a portion of those lands heretofore conveyed by Cold Spring Lumber Co., Inc. to the Village of Cold Spring by that certain deed dated October 3, 1967, and recorded in the Putnam County Clerk's Liber 655 of deeds at page 338, that is bounded and described as follows:

BEGINNING at the point formed by the intersection of the southwesterly line of Market Street with the southeasterly line of New Street

THENCE from the said point of beginning, southeasterly along the said southwesterly line of Market Street

S 27°04'10" E 64.61 feet,

to a point at the line of lands formerly of Nolfo, formerly of Helfenstein and now or formerly of Pavlik. Thence along the said Pavlik lands and continuing along lands formerly of Helfenstein and now or formerly of said Pavlik, as shown on that certain "Survey of Property prepared for Village of Cold Spring …," which was filed in the Putnam County Clerk's office on November 19, 1981 as Map No. 1843

S 62°55'50" W 106.10 feet, and
S 27°05'16" E 85.59 feet,

to a point on the line of lands formerly of Pensiero and now or formerly of Zgolinski, as the said line was established by the agreement between Anna P. Kent, Sebastian Pensiero, Josephine M. LaFroscia, John J. Pensiero, Joseph C. Pensiero, Jr., Philip E. Pensiero and William S. Pensiero and The Village of Cold Spring, dated October 1, 1979 and recorded in the Putnam County Clerk's Liber 771 of deeds at page 359, and also shown on said Filed Map No. 1843. Thence along the and beyond said agreed line

S 46°21'58" W 205.34 feet, and
S 53°52'14" W 66.67 feet,

passing through an iron pin set in rock at the southwesterly end of the said agreed line to a point on the high water mark of the easterly edge of the Hudson River. Thence northerly and upstream along the said high water mark of the Hudson River, the following courses:

N 38°50'00" W 113.20 feet,
N 53°08'00" E 1.50 feet, and
N 36°52'00" W 18.80 feet,

to a point in range with the southeasterly line of New Street. Thence northeasterly partly through the lands so conveyed to the Village of Cold Spring and continuing along the said southeasterly line of New Street

N 50°06'00" E 403.60 feet

to the point or place of beginning of this Environmental Easement Area.

Prepared by
BADEY & WATSON
Surveying & Engineering, P.C.
3063 Route 9
Cold Spring, New York 10516
(845) 265-9217 (voice)
(845) 265-4428 (fax)
(877) 3.141593
www.Badey-Watson.com

File No. 79-102
Work Order No. 20304
File Name: Document2
Date Created: August 23, 2012
Date Revised: August 23, 2012
Date Printed: August 23, 2012
Figure No. 110
Author: GJW

Description of Property
Prepared for
Village of Cold Spring
Description for ALTA Survey of Boat Club

ALL that certain parcel of land situate partially in the Village of Cold Spring, and entirely in the Town of Philipstown, County of Putnam, and State of New York that is a portion of those lands heretofore conveyed by Cold Spring Lumber Co., Inc. to the Village of Cold Spring by that certain deed dated October 3, 1967, and recorded in the Putnam County Clerk's Liber 655 of deeds at page 338, that is bounded and described as follows:

BEGINNING at the point formed by the intersection of the southwesterly line of Market Street with the southeasterly line of New Street

THENCE from the said point of beginning, southeasterly along the said southwesterly line of Market Street

S 27°04'10" E 64.61 feet,

to a point at the line of lands formerly of Nolfo, formerly of Helfenstein and now or formerly of Pavlik. Thence along the said Pavlik lands and continuing along lands formerly of Helfenstein and now or formerly of said Pavlik, as shown on that certain "Survey of Property prepared for Village of Cold Spring," which was filed in the Putnam County Clerk's office on November 19, 1981, as Map No. 1843

S 62°55'50" W 106.10 feet, and
S 27°05'16" E 85.59 feet,

to a point on the line of lands formerly of Pensiero and now or formerly of Zgolinski, as the said line was established by the agreement between Anna P. Kent, Sebastian Pensiero, Josephine M. LaFroscia, John J. Pensiero, Joseph C. Pensiero, Jr., Philip E. Pensiero and William S. Pensiero and The Village of Cold Spring, dated October 1, 1979 and recorded in the Putnam County Clerk's Liber 771 of deeds at page 359, and also shown on said Filed Map No. 1843. Thence along the and beyond said agreed line

S 46°21'58" W 205.34 feet,

passing through an iron pin set in rock at the southwesterly end of the said agreed line to a point. Thence into and through the waters of the Hudson River

S 53°52'14" W 332.66 feet, and
N 16°32'10" W 124.60 feet,

to a point in range with the southeasterly line of New Street. Thence northeasterly partly through the waters of the Hudson River, partly through the lands so conveyed to the Village of Cold Spring and continuing along the said southeasterly line of New Street

N 50°06'00" E 624.20 feet

to the point or place of beginning, containing 1.667 acres, more or less.

Prepared by
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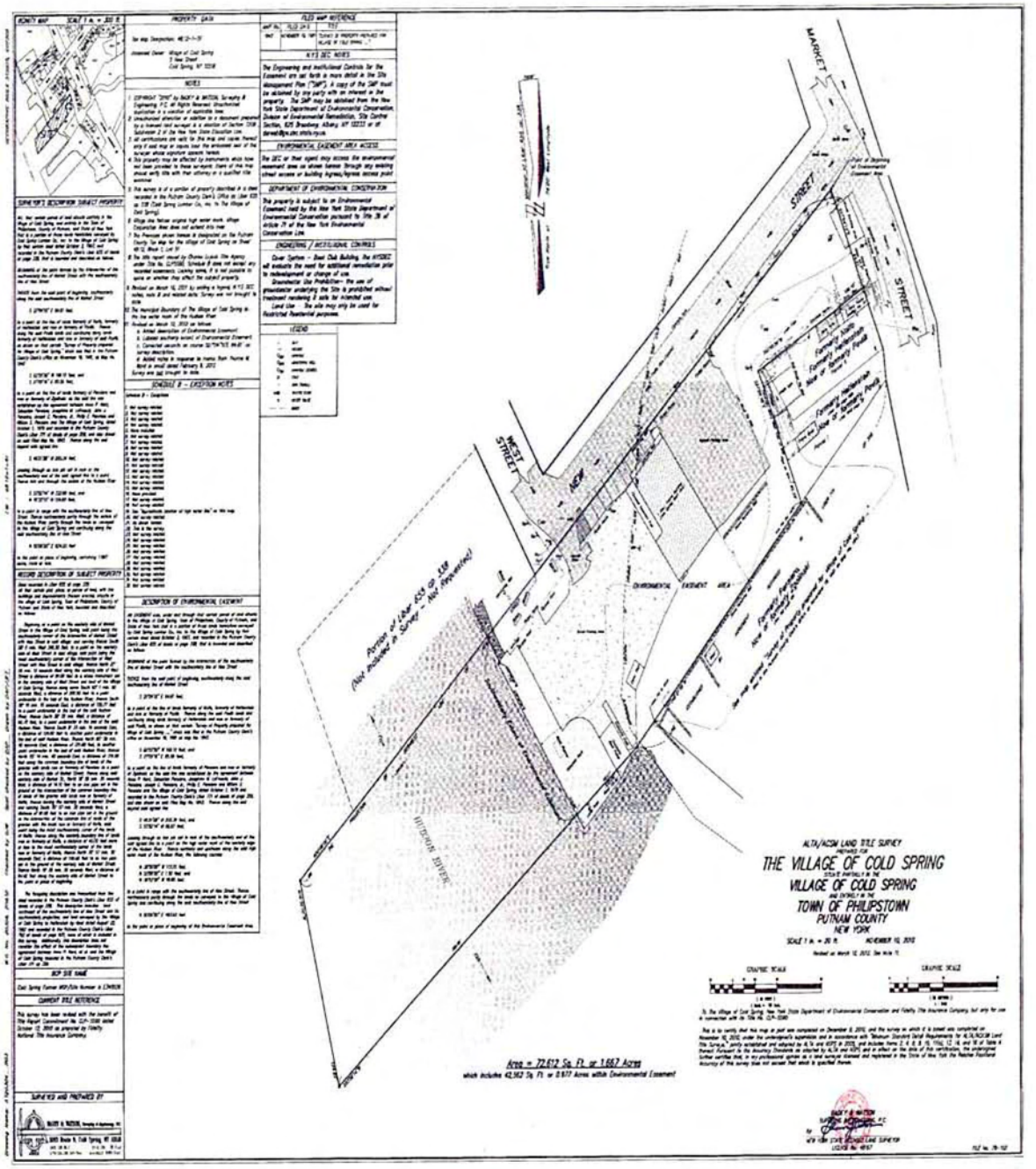
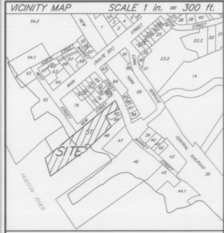
SURVEY



VICINITY MAP SCALE 1 in. = 300 ft.



SURVEYOR'S DESCRIPTION SUBJECT PROPERTY

ALL that certain parcel of land situate partially in the Village of Cold Spring, and entirely in the Town of Philipstown, County of Putnam, and State of New York that is a portion of those lands heretofore conveyed by Cold Spring Lumber Co., Inc. to the Village of Cold Spring by that certain deed dated October 3, 1967, and recorded in the Putnam County Clerk's Liber 655 of deeds at page 338, that is bounded and described as follows:

BEGINNING at the point formed by the intersection of the southwesterly line of Market Street with the southeasterly line of New Street

THENCE from the said point of beginning, southeasterly along the said southwesterly line of Market Street

S 27°04'10" E 64.61 feet,

to a point at the line of lands formerly of Nolfo, formerly of Helfenstein and now or formerly of Pavlik. Thence along the said Pavlik lands and continuing along lands formerly of Helfenstein and now or formerly of said Pavlik, as shown on that certain "Survey of Property prepared for Village of Cold Spring," which was filed in the Putnam County Clerk's office on November 19, 1981, as Map No. 1843

S 62°55'50" W 106.10 feet, and
S 27°05'16" E 85.59 feet,

to a point on the line of lands formerly of Pensiero and now or formerly of Zgolinski, as the said line was established by the agreement between Anna P. Kent, Sebastian Pensiero, Josephine M. LaFroscia, John J. Pensiero, Joseph C. Pensiero, Jr., Philip E. Pensiero and William S. Pensiero and The Village of Cold Spring, dated October 1, 1979 and recorded in the Putnam County Clerk's Liber 771 of deeds at page 359, and also shown on said Filed Map No. 1843. Thence along the and beyond said agreed line

S 46°21'58" W 205.34 feet,

passing through an iron pin set in rock at the southwesterly end of the said agreed line to a point. Thence into and through the waters of the Hudson River

S 53°52'14" W 332.66 feet, and
N 16°32'10" W 124.60 feet,

to a point in range with the southeasterly line of New Street. Thence northeasterly partly through the waters of the Hudson River, partly through the lands so conveyed to the Village of Cold Spring and continuing along the said southeasterly line of New Street

N 50°06'00" E 624.20 feet

to the point or place of beginning, containing 1.667 acres, more or less.

RECORD DESCRIPTION OF SUBJECT PROPERTY

Deed recorded in Liber 655 at page 338.
All that certain plot, piece, or parcel of land, with the buildings and improvements thereon erected, situate in the village of Cold Spring, Town of Philipstown, County of Putnam and State of New York, bounded and described as follows:

Beginning at a point on the westerly side of Market Street in the Village of Cold Spring, said point being the southwesterly corner of the intersection of Market Street with New Street in said village: and running thence South 58° 5 min. West 346.50 feet, to a point on the westerly side of West Street in said village, said point being the most southwesterly corner of the intersection of West Street with New Street in said village; thence North 27° 58 min. 10 seconds West along the westerly side of West Street a distance of 91.00 feet to a stone monument set in the westerly side of West Street and land of the Village of Cold Spring; thence along same South 62° 1 min. 50 seconds West, a distance of 200.00 feet to a point underwater in the bed of the Hudson River; thence South 20° 10 min. 10 seconds East, a distance of 106.77 feet to a point underwater in the bed of the said Hudson River; thence South 58° 05 min. West, a distance of 62.70 feet, to a point underwater in the bed of the said Hudson River. Thence South 8° 33 min. 10 seconds East, a distance of 124.60 feet to another point underwater in the bed of said Hudson River. Thence North 60° 59 min. 40 seconds East, a distance of 331.80 feet, to another point underwater in the bed of said Hudson River; thence North 55° 14 min. 40 seconds East, a distance of 316.00 feet along the common boundary line of lands of the grantor with lands now or formerly of Pensiero to a point on the westerly side of Market Street; thence along said westerly side of Market St., North 18° 56 min. 30 seconds West, a distance of 14.10 feet to an iron pipe set in the ground at the intersection of the common boundary line of lands of the grantor with lands now or formerly of Nolfo; thence leaving the westerly side of Market Street and running South 70° 57 min. 30 seconds West, a distance of 91.00 feet to an iron pipe set in the ground at the intersection of the common line of lands of the grantor with the lands now or formerly of Nolfo, said point being the most southwesterly corner of the lands of Nolfo; thence along the westerly boundary line of lands now or formerly of Nolfo, a distance of 40.00 feet more or less to the most northwesterly corner of the lands now or formerly of Nolfo; thence North 70° 57 min. 30 seconds East, a distance of 100.00 feet to an iron pipe set in the ground at the westerly side of Market Street. Thence North 18° 56 min. 30 seconds West, a distance of 64.42 feet along the westerly side of Market Street to the point or place of beginning.

The foregoing description was transcribed from the deed recorded in the Putnam County Clerk's Liber 655 of deeds at page 338. This description includes: land northwest of the southeasterly line of New Street and its southwesterly projection; and land conveyed by the Village of Cold Spring to Helfenstein by deed dated August 22, 1983 and recorded in the Putnam County Clerk's Liber 792 of deeds at page 825, none of which is included in this survey. Additionally, this description does not consider the affect of the subsequent boundary line agreement between Anna P. Kent, et al. and the Village of Cold Spring recorded in the Putnam County Clerk's Liber 771 cp 359.

BCP SITE NAME

Cold Spring Former MGP/Site Number is E340026

CURRENT TITLE REFERENCE

This survey has been revised with the benefit of Title Report Commitment No. CLP-5590 dated October 12, 2010 as prepared by Fidelity National Title Insurance Company.

SURVEYED AND PREPARED BY

BADEY & WATSON, Surveying & Engineering, P.C.
3063 Route 9, Cold Spring, NY 10516
(845) 265-9217 (845) 265-4428 (Fax)
(877) 3.141593 Toll-Free www.BADEY-WATSON.com

PROPERTY DATA

Tax Map Designation: 48.12-1-51

Assessed Owner: Village of Cold Spring
5 New Street
Cold Spring, NY 10516

NOTES

1. COPYRIGHT "2010" by BADEY & WATSON, Surveying & Engineering, P.C. All Rights Reserved. Unauthorized duplication is a violation of applicable laws.
2. Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
3. All certifications are valid for this map and copies thereof only if said map or copies bear the embossed seal of the surveyor whose signature appears hereon.
4. This property may be affected by instruments which have not been provided to these surveyors. Users of this map should verify title with their attorney or a qualified title examiner.
5. This survey is of a portion of property described in a deed recorded in the Putnam County Clerk's Office as Liber 655 cp 338 (Cold Spring Lumber Co., Inc. to The Village of Cold Spring).
6. Village line follows original high water mark. Village Corporation Area does not extend into river.
7. The Premises shown hereon is designated on the Putnam County Tax Map for the Village of Cold Spring as Sheet 48.12, Block 1, Lot 51.
8. The title report issued by Charles Lujack Title Agency under Title No. CLP5590, Schedule B does not except any recorded easements. Lacking same, it is not possible to opine on whether they affect the subject property.
9. Revised on March 16, 2011 by adding a legend, N.Y.S DEC notes, note 8 and related data. Survey was not brought to date.
10. The municipal Boundary of The Village of Cold Spring is the low water mark of the Hudson River.
11. Revised on March 12, 2012 as follows:
   a. Added description of Environmental Easement.
   b. Labeled southerly extent of Environmental Easement.
   c. Corrected seconds on course S27°04"10'E 64.61' on survey description.
   d. Added notes in response to memo from Yvonne M. Ward in email dated February 9, 2012
   Survey was not brought to date.
12. Revised on December 20, 2012 as follows:
   a. Moved and modified certain notes and labels at request of DEC Attorney Yvonne M. Ward.
   Survey was not brought to date. Revisions were not substantive.

SCHEDULE B – EXCEPTION NOTES

Schedule B – Exceptions

1. Not survey related.
2. Not survey related.
3. Not survey related.
4. Not survey related.
5. None included.
6. Not survey related.
7. Not survey related.
8. Not survey related.
9. Not survey related.
10. Not survey related.
11. Not survey related.
12. Not survey related.
13. Not survey related.
14. Not survey related.
15. Not survey related.
16. None provided.
17. Not survey related.
18. Not survey related.
19. See "Approximate location of high water line" on this map.
20. Not survey related.
21. As shown hereon.
22. This is the survey.
23. Not survey related.
24. Not survey related.
25. Not survey related.
26. Not survey related.
27. Not survey related.
28. Not survey related.
29. Not survey related.
30. Not survey related.
31. Not survey related.
32. Not survey related.

DESCRIPTION OF ENVIRONMENTAL EASEMENT

AN EASEMENT over, under and through that certain parcel of land situate in the Village of Cold Spring, Town of Philipstown, County of Putnam, and State of New York that is a portion of those lands heretofore conveyed by Cold Spring Lumber Co., Inc. to the Village of Cold Spring by that certain deed dated October 3, 1967, and recorded in the Putnam County Clerk's Liber 655 of deeds at page 338, that is bounded and described as follows:

BEGINNING at the point formed by the intersection of the southwesterly line of Market Street with the southeasterly line of New Street

THENCE from the said point of beginning, southeasterly along the said southwesterly line of Market Street

S 27°04'10" E 64.61 feet,

to a point at the line of lands formerly of Nolfo, formerly of Helfenstein and now or formerly of Pavlik. Thence along the said Pavlik lands and continuing along lands formerly of Helfenstein and now or formerly of said Pavlik, as shown on that certain "Survey of Property prepared for Village of Cold Spring ...," which was filed in the Putnam County Clerk's office on November 19, 1981 as Map No. 1843

S 62°55'50" W 106.10 feet, and
S 27°05'16" E 85.59 feet,

to a point on the line of lands formerly of Pensiero and now or formerly of Zgolinski, as the said line was established by the agreement between Anna P. Kent, Sebastian Pensiero, Josephine M. LaFroscia, John J. Pensiero, Joseph C. Pensiero, Jr., Philip E. Pensiero and William S. Pensiero and The Village of Cold Spring, dated October 1, 1979 and recorded in the Putnam County Clerk's Liber 771 of deeds at page 359, and also shown on said Filed Map No. 1843. Thence along the and beyond said agreed line

S 46°21'58" W 205.34 feet, and
S 53°52'14" W 66.67 feet,

passing through an iron pin set in rock at the southwesterly end of the said agreed line to a point on the high water mark of the easterly edge of the Hudson River. Thence northerly and upstream along the said high water mark of the Hudson River, the following courses:

N 38°50'00" W 113.20 feet,
N 53°08'00" E 1.50 feet, and
N 36°52'00" W 18.80 feet,

to a point in range with the southeasterly line of New Street. Thence northeasterly partly through the lands so conveyed to the Village of Cold Spring and continuing along the said southeasterly line of New Street

N 50°06'00" E 403.60 feet

to the point or place of beginning of this Environmental Easement Area.

FILED MAP REFERENCE

MAP No.	FILED DATE	TITLE
1843	NOVEMBER 19, 1981	"SURVEY OF PROPERTY PREPARED FOR VILLAGE OF COLD SPRING ...,"

N.Y.S DEC. NOTES

The Engineering and Institutional Controls for the 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 may be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@gw.dec.state.ny.us.

ENVIRONMENTAL EASEMENT AREA ACCESS

The DEC or their agent may access the environmental easement area as shown hereon through any existing street access or building ingress/egress access point

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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.

ENGINEERING / INSTITUTIONAL CONTROLS

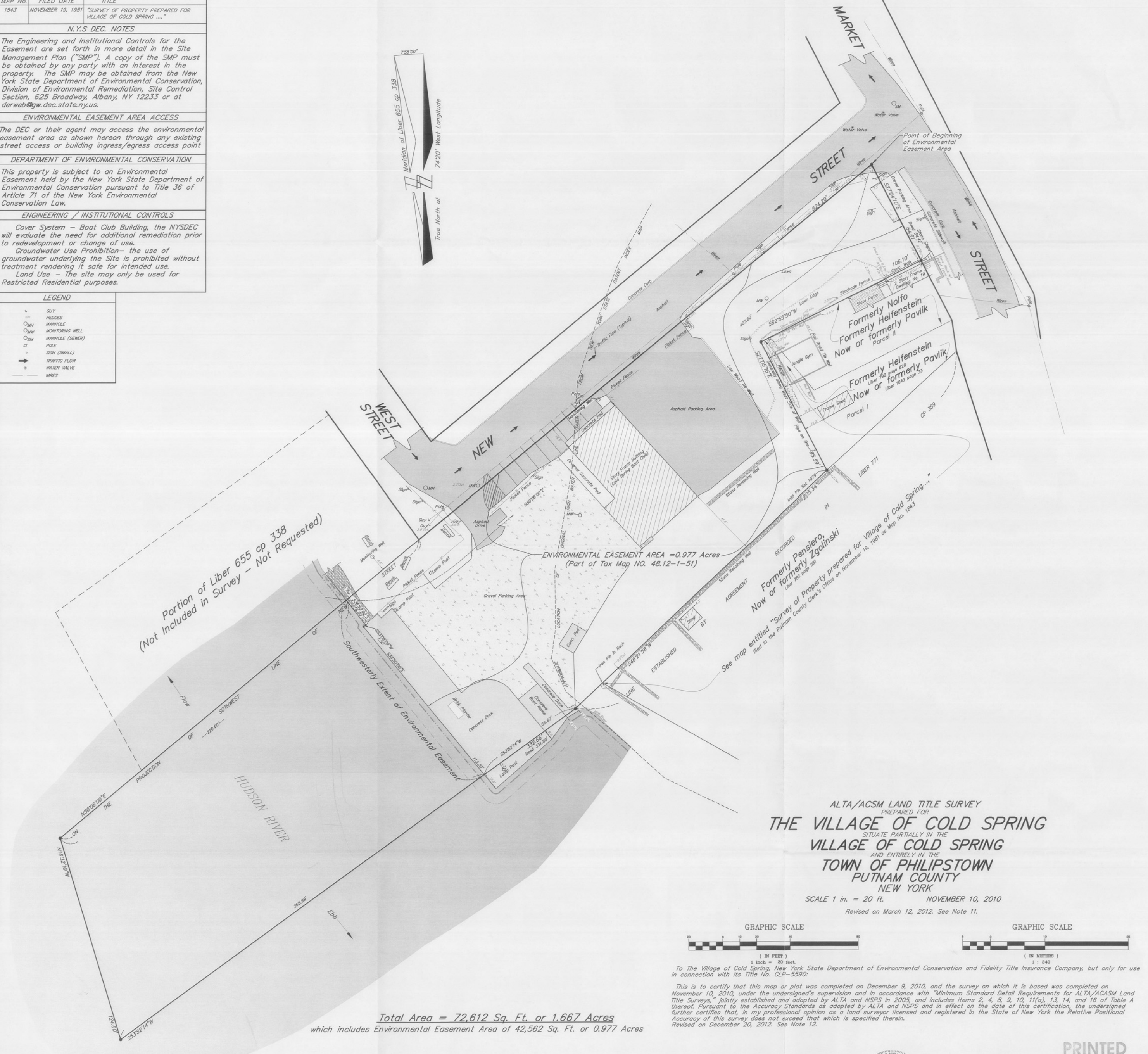
Cover System – Boat Club Building, the NYSDEC will evaluate the need for additional remediation prior to redevelopment or change of use.

Groundwater Use Prohibition– the use of groundwater underlying the Site is prohibited without treatment rendering it safe for intended use.

Land Use – The site may only be used for Restricted Residential purposes.

LEGEND

- GUY
- HEDGES
- MH – MANHOLE
- MW – MONITORING WELL
- SM – MANHOLE (SEWER)
- POLE
- SIGN (SMALL)
- TRAFFIC FLOW
- WATER VALVE
- WIRES



Total Area = 72,612 Sq. Ft. or 1.667 Acres
which includes Environmental Easement Area of 42,562 Sq. Ft. or 0.977 Acres

ALTA/ACSM LAND TITLE SURVEY
PREPARED FOR
THE VILLAGE OF COLD SPRING
SITUATE PARTIALLY IN THE
VILLAGE OF COLD SPRING
AND ENTIRELY IN THE
TOWN OF PHILIPSTOWN
PUTNAM COUNTY
NEW YORK

SCALE 1 in. = 20 ft. NOVEMBER 10, 2010

Revised on March 12, 2012. See Note 11.

GRAPHIC SCALE (IN FEET) 1 inch = 20 feet.

GRAPHIC SCALE (IN METERS) 1 : 240

To The Village of Cold Spring, New York State Department of Environmental Conservation and Fidelity Title Insurance Company, but only for use in connection with its Title No. CLP-5590:

This is to certify that this map or plat was completed on December 9, 2010, and the survey on which it is based was completed on November 10, 2010, under the undersigned's supervision and in accordance with "Minimum Standard Detail Requirements for ALTA/ACASM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes items 2, 4, 8, 9, 10, 11(a), 13, 14, and 16 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, the undersigned further certifies that, in my professional opinion as a land surveyor licensed and registered in the State of New York the Relative Positional Accuracy of this survey does not exceed that which is specified therein.
Revised on December 20, 2012. See Note 12.

BADEY & WATSON
SURVEYING & ENGINEERING, P.C.
by
NEW YORK STATE LICENSED LAND SURVEYOR
LICENSE No. 48167

PRINTED
DEC 20 2012
BADEY & WATSON
Surveying & Engineering, P.C.

FILE No. 79-102

GEOGRAPHIC INDEX 515815, 602209
T.M. : 48.12-1-51
W.O. No. 20304, 20832 Checked by GJW Spell checked by DAP Drawn by DAP/JFT
Drawing Name: AT20304__R04

U:\79-102\DP\79-102\DWG\AT20304__R04.dwg, 12/20/2012 10:52:47 AM, NTB

APPENDIX B

DAILY REPORTS AND PROGRESS MEETING MINUTES INCLUDING PHOTOGRAPHS (ON DVD)

APPENDIX C

LABORATORY ANALYTICAL REPORTS (ON DVD)

APPENDIX D

DATA USABILITY SUMMARY REPORT (ON DVD)

APPENDIX E

AIR MONITORING AND WEATHER DATA (ON DVD)

APPENDIX F

DISPOSAL TICKETS/MANIFESTS (ON DVD)

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:

RCS = Royal Carting Service Co.
SM = S.M. Gallivan
CPC - CPC Paving
MCES -
SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY

WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	14700	7.35	0479	12
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	7240	3.62	0487	12
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	9720	4.86	0496	12
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	8140	4.07	0502	12
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	9100	4.55	0514	12
11/02/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	10980	5.49	0520	12
11/03/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	9660	4.83	0533	12
11/03/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	9500	4.75	0546	12
11/03/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	20120	10.06	0558	12
11/03/15	CY	157	RCS	30	WHTS	Boat Club Building Demolition Debris; Removed Tree	NH	N	Y	18340	9.17	0572	12
12/03/15	TONS	123	SM	22	RR	Initial Excavation Area	NH	N	Y	46760	23.38	NH001	11
12/03/15	TONS	110	SM	22	RR	Initial Excavation Area	NH	N	Y	36800	18.40	NH008	11
12/03/15	TONS	171	SM	22	RR	Initial Excavation Area	NH	N	Y	40860	20.43	NH003	11
12/03/15	TONS	129	SM	22	RR	Initial Excavation Area	NH	N	Y	40520	20.26	NH005	11
12/03/15	TONS	143	SM	22	RR	Initial Excavation Area	NH	N	Y	38600	19.30	NH004	11
12/03/15	TONS	128	SM	22	RR	Initial Excavation Area	NH	N	Y	40760	20.38	NH007	11
12/03/15	TONS	122	SM	22	RR	Initial Excavation Area	NH	N	Y	37860	18.93	NH006	11
12/03/15	TONS	110	SM	22	RR	Initial Excavation Area	NH	N	Y	47480	23.74	NH002	11
12/03/15	TONS	171	SM	22	RR	Initial Excavation Area	NH	N	Y	34600	17.30	NH009	11
12/03/15	TONS	143	SM	22	RR	Initial Excavation Area	NH	N	Y	45000	22.50	NH010	11
12/04/15	TONS	171	SM	22	RR	Initial Excavation Area	NH	N	Y	35580	17.79	NH011	11
12/04/15	TONS	123	SM	22	RR	Initial Excavation Area	NH	N	Y	38740	19.37	NH012	11
12/04/15	TONS	110	SM	22	RR	Initial Excavation Area	NH	N	Y	41040	20.52	NH013	11
12/15/15	TONS	171	SM	22	RR	Sheet Piling Trench	NH	N	Y	43480	21.74	NH014	11
12/15/15	TONS	110	SM	22	RR	Sheet Piling Trench	NH	N	Y	42240	21.12	NH015	11
12/15/15	TONS	143	SM	22	RR	Sheet Piling Trench	NH	N	Y	40860	20.43	NH016	11
12/15/15	TONS	129	SM	22	RR	Sheet Piling Trench	NH	N	Y	38800	19.40	NH017	11
12/15/15	TONS	122	SM	22	RR	Initial Excavation Area	NH	N	Y	50080	25.04	NH018	11
12/18/15	TONS	171	SM	22	RR	Stockpile from Initial Excavation Area	NH	N	Y	45280	22.64	NH019	11
12/18/15	TONS	110	SM	22	RR	Stockpile from Initial Excavation Area	NH	N	Y	43300	21.65	NH020	11
12/18/15	TONS	129	SM	22	RR	Stockpile from Initial Excavation Area	NH	N	Y	49800	24.90	NH021	11
12/18/15	TONS	165	SM	22	RR	Stockpile from Initial Excavation Area	NH	N	Y	52820	26.41	NH022	11
12/18/15	TONS	122	SM	22	RR	Stockpile from Initial Excavation Area	NH	N	Y	54160	27.08	NH023	11
01/13/16	TONS	122	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	42620	21.31	RW001	PCO 0006
01/13/16	TONS	110	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	42600	21.30	RW002	PCO 0006
01/13/16	TONS	129	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	44740	22.37	RW003	PCO 0006
01/13/16	TONS	147	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	49000	24.50	RW004	PCO 0006
01/13/16	TONS	143	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	46360	23.18	RW005	PCO 0006
01/13/16	TONS	116	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	48700	24.35	RW006	PCO 0006

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

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MCES -
SRS -
ENV- Envirotech
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AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY

WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No **N/A =Not Applicable**
*** = The EST Weight for this load includes 2 tons of C & D debris with soil**

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
01/13/16	TONS	218	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	47800	23.90	RW007	PCO 0006
01/13/16	TONS	217	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	42820	21.41	RW008	PCO 0006
01/13/16	TONS	214	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	48480	24.24	RW009	PCO 0006
01/14/16	TONS	122	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	41180	20.59	RW010	PCO 0006
01/14/16	TONS	116	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	43280	21.64	RW011	PCO 0006
01/14/16	TONS	110	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	50080	25.04	RW012	PCO 0006
01/14/16	TONS	129	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	41980	20.99	RW013	PCO 0006
01/14/16	TONS	301	MCES	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	45200	22.60	RW014	PCO 0006
01/14/16	TONS	143	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	51560	25.78	RW015	PCO 0006
01/14/16	TONS	147	SM	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	44640	22.32	RW016	PCO 0006
01/14/16	TONS	217	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	48140	24.07	RW017	PCO 0006
01/14/16	TONS	218	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	49140	24.57	RW018	PCO 0006
01/14/16	TONS	214	CPC	22	ESMI	Rock Stockpile at Center of Site	NH	N	Y	49220	24.61	RW019	PCO 0006
01/15/16	TONS	110	SM	22	RR	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	35260	17.63	NH024	11
01/15/16	TONS	116	SM	22	RR	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	48800	24.40	NH027	11
01/15/16	TONS	147	SM	22	RR	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	46720	23.36	NH028	11
01/15/16	TONS	129	SM	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	47720	23.86	RW020	PCO 0006
01/15/16	TONS	122	SM	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	50380	25.19	RW021	PCO 0006
01/15/16	TONS	143	SM	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	47760	23.88	RW022	PCO 0006
01/15/16	TONS	888	SRS	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	46040	23.02	RW023	PCO 0006
01/15/16	TONS	666	SRS	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	41960	20.98	RW024	PCO 0006
01/15/16	TONS	301	MCES	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	43540	21.77	RW025	PCO 0006
01/15/16	TONS	218	CPC	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	44920	22.46	RW026	PCO 0006
01/15/16	TONS	214	CPC	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	47140	23.57	RW027	PCO 0006
01/15/16	TONS	217	CPC	22	ESMI	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	44300	22.15	RW028	PCO 0006
01/15/16	TONS	116	SM	22	RR	Soil and Rock Stockpile on Top of the Initial Excavation Area	NH	N	Y	41900	20.95	NH025	11
01/15/16	TONS	147	SM	22	RR	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	46460	23.23	NH026	11
01/18/16	TONS	666	SRS	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	50360	25.18	RW029	PCO 0007
01/18/16	TONS	008	ENV	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	46660	23.33	RW030	PCO 0007
01/18/16	TONS	147	SM	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	49540	24.77	RW031	PCO 0007
01/18/16	TONS	143	SM	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	50240	25.12	RW032	PCO 0007
01/18/16	TONS	301	MCES	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	48060	24.03	RW033	PCO 0007
01/18/16	TONS	218	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	42180	21.09	RW034	PCO 0007
01/18/16	TONS	219	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	47360	23.68	RW035	PCO 0007
01/18/16	TONS	217	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	54900	27.45	RW036	PCO 0007
01/20/16	TONS	147	SM	22	RR	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	47720	23.86	NH029	11
01/20/16	TONS	301	MCES	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	35200	17.60	RW037	PCO 0007
01/20/16	TONS	218	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	41880	20.94	RW038	PCO 0007
01/20/16	TONS	214	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	45020	22.51	RW039	PCO 0007
01/20/16	TONS	217	CPC	22	ESMI	Soil and Rock Excavated from A0+80 through A1+40 in the Initial Excavation Area	NH	N	Y	46680	23.34	RW040	PCO 0007
02/16/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	48900	24.45	NH030	11
02/16/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	38280	19.14	NH031	11
02/16/16	TONS	110	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45820	22.91	NH032	11
02/16/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42600	21.30	NH033	11
02/16/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43140	21.57	NH034	11
02/16/16	TONS	122	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41500	20.75	NH035	11

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:

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Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
02/16/16	TONS	143	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41480	20.74	NH036	11
02/16/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	51520	25.76	NH037	11
02/16/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45320	22.66	NH038	11
02/16/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43400	21.70	NH039	11
02/17/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	47080	23.54	NH040	11
02/17/16	TONS	143	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44620	22.31	NH041	11
02/17/16	TONS	110	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45400	22.70	NH048	11
02/17/16	TONS	122	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	33580	16.79	NH049	11
02/17/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	49660	24.83	NH044	11
02/17/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46720	23.36	NH045	11
02/17/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	50460	25.23	NH046	11
02/17/16	TONS	143	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40880	20.44	NH047	11
02/17/16	TONS	110	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45460	22.73	NH042	11
02/17/16	TONS	122	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43640	21.82	NH043	11
02/18/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44460	22.23	NH056	11
02/18/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45720	22.86	NH055	11
02/18/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40320	20.16	NH052	11
02/18/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40060	20.03	NH053	11
02/18/16	TONS	147	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	37260	18.63	NH059	11
02/18/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	49900	24.95	NH051	11
02/18/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42460	21.23	NH050	11
02/18/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41360	20.68	NH057	11
02/18/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42920	21.46	NH058	11
02/18/16	TONS	147	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	47360	23.68	NH054	11
02/19/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	48140	24.07	NH060	11
02/19/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45800	22.90	NH061	11
02/19/16	TONS	284	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44120	22.06	NH072	11
02/19/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44420	22.21	NH063	11
02/19/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45320	22.66	NH064	11
02/19/16	TONS	122	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	49540	24.77	NH071	11
02/19/16	TONS	147	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45480	22.74	NH066	11
02/19/16	TONS	116	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	48080	24.04	NH067	11
02/19/16	TONS	130	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40720	20.36	NH068	11
02/19/16	TONS	129	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42760	21.38	NH069	11
02/19/16	TONS	123	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44180	22.09	NH070	11
02/19/16	TONS	122	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46540	23.27	NH065	11
02/19/16	TONS	284	SM	22	RR	Soil Stockpile from A0+80 - A1+40 in the Initial Excavation Area; Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	59220	29.61	NH062	11
02/22/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	44920	22.46	NH073	11
02/22/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	43040	21.52	NH074	11
02/22/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	45800	22.90	NH075	11
02/22/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	41960	20.98	NH082	11
02/22/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	45160	22.58	NH083	11
02/22/16	TONS	122	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	48020	24.01	NH078	11
02/22/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	44540	22.27	NH079	11
02/22/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	44560	22.28	NH080	11
02/22/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	43160	21.58	NH081	11
02/22/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	43020	21.51	NH076	11
02/22/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	41560	20.78	NH077	11
02/22/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1; Activated Carbon	NH	N	Y	45280	22.64	NH084	11

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:

RCS = Royal Carting Service Co.
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SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
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ERC - Environmental Recovery Corporation

DESIGNATED FACILITY

WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
02/23/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46240	23.12	NH085	11
02/23/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46720	23.36	NH086	11
02/23/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	47180	23.59	NH094	11
02/23/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	52880	26.44	NH097	11
02/23/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	53600	26.80	NH095	11
02/23/16	TONS	116	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44580	22.29	NH091	11
02/23/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	48960	24.48	NH092	11
02/23/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	48260	24.13	NH093	11
02/23/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	50940	25.47	NH087	11
02/23/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44160	22.08	NH090	11
02/23/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45440	22.72	NH088	11
02/23/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45360	22.68	NH089	11
02/23/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	52240	26.12	NH096	11
02/24/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46420	23.21	NH105	11
02/24/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40520	20.26	NH106	11
02/24/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	37320	18.66	NH100	11
02/24/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42780	21.39	NH101	11
02/24/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42860	21.43	NH109	11
02/24/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43580	21.79	NH103	11
02/24/16	TONS	116	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41680	20.84	NH104	11
02/24/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	53660	26.83	NH098	11
02/24/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41160	20.58	NH099	11
02/24/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	46680	23.34	NH107	11
02/24/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	36100	18.05	NH108	11
02/24/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43860	21.93	NH102	11
02/25/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42780	21.39	NH110	11
02/25/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	37320	18.66	NH111	11
02/25/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	42600	21.30	NH116	11
02/25/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	41400	20.70	NH113	11
02/25/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	43780	21.89	NH019	11
02/25/16	TONS	284	CM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	45480	22.74	NH115	11
02/25/16	TONS	123	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40180	20.09	NH112	11
02/25/16	TONS	110	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	39780	19.89	NH117	11
02/25/16	TONS	129	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	40160	20.08	NH018	11
02/25/16	TONS	147	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	44520	22.26	NH114	11
02/25/16	TONS	130	SM	22	RR	Top 3 ft. of Soil from TCS Location No. 1	NH	N	Y	36440	18.22	NH020	11
03/08/16	TONS	110	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	44120	22.06	RW041	11
03/08/16	TONS	129	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	39240	19.62	RW043	11
03/08/16	TONS	122	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	50200	25.10	RW044	11
03/08/16	TONS	123	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	52960	26.48	RW045	11
03/08/16	TONS	116	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	51840	25.92	RW046	11
03/08/16	TONS	3	AWE	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	50060	25.03	RW042	11
03/08/16	TONS	130	SM	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	53760	26.88	RW047	11
03/08/16	TONS	3	AWE	22	ESMI	Holder Materials to 8 ft. Below Existing Grade; South Sump from 1+10 to 1+30 to 8 ft. Below Existing Grade	NH	N	Y	47120	23.56	RW048	11
03/09/16	TONS	130	SM	22	RR	South Sump from 0+90 to 1+00 to 11 ft. below existing grade; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	65860	32.93	NH122	11
03/09/16	TONS	110	SM	22	RR	South Sump from 0+90 to 1+00 to 11 ft. below existing grade; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	49420	24.71	NH121	11
03/09/16	TONS	123	SM	22	RR	South Sump from 0+90 to 1+00 to 11 ft. below existing grade; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	53160	26.58	NH123	11
03/09/16	TONS	129	SM	22	RR	South Sump from 0+90 to 1+00 to 11 ft. below existing grade; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	36900	18.45	NH124	11
03/10/16	TONS	110	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	57320	28.66	NH125	11
03/10/16	TONS	123	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	48000	24.00	NH128	11
03/10/16	TONS	130	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	45000	22.50	NH126	11

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T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
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* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
03/10/16	TONS	129	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	47840	23.92	NH127	11
03/11/16	TONS	123	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	55080	27.54	NH130	11
03/11/16	TONS	123	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	45480	22.74	NH132	11
03/11/16	TONS	130	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	57940	28.97	NH131	11
03/11/16	TONS	123	SM	22	RR	South Sump from 0+90 to 1+10; Holder Materials; South Sump from 1+10 to 1+30	NH	N	Y	49840	24.92	NH129	11
03/14/16	TONS	130	SM	22	RR	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	44980	22.49	NH134	11
03/14/16	TONS	130	SM	22	RR	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	48920	24.46	NH133	11
03/14/16	TONS	110	SM	22	RR	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	41880	20.94	NH135	11
03/14/16	TONS	AW3	CM	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	58160	29.08	RW049	PCO-0007
03/14/16	TONS	123	SM	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	55780	27.89	RW051	PCO-0007
03/14/16	TONS	143	SM	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	39240	19.62	RW050	PCO-0007
03/14/16	TONS	122	SM	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	67320	33.66	RW052	PCO-0007
03/14/16	TONS	129	SM	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	32020	16.01	RW053	PCO-0007
03/14/16	TONS	3	AWE	22	ESMI	South Sump from 0+90 to 1+10; South Sump from 1+10 to 1+30; Ramp Surface Soils 0+70 to 1+20	NH	N	Y	44400	22.20	RW054	PCO-0007
03/15/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	44880	22.44	RW055	PCO-0007
03/15/16	TONS	130	SM	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	52680	26.34	RW057	PCO-0007
03/15/16	TONS	129	SM	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	48160	24.08	RW058	PCO-0007
03/15/16	TONS	110	SM	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	50520	25.26	RW056	PCO-0007
03/15/16	TONS	123	SM	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	48820	24.41	RW059	PCO-0007
03/15/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90 to 11 ft. below existing grade	NH	N	Y	56320	28.16	RW060	PCO-0007
03/16/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	44080	22.04	RW061	PCO-0007
03/16/16	TONS	130	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	44540	22.27	RW062	PCO-0007
03/16/16	TONS	110	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	38240	19.12	RW063	PCO-0007
03/16/16	TONS	129	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	35840	17.92	RW064	PCO-0007
03/16/16	TONS	123	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	45240	22.62	RW065	PCO-0007
03/16/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	40480	20.24	RW066	PCO-0007
03/17/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	53200	26.60	RW067	PCO-0007
03/17/16	TONS	110	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	41780	20.89	RW068	PCO-0007
03/17/16	TONS	130	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	39740	19.87	RW069	PCO-0007
03/17/16	TONS	129	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	38180	19.09	RW070	PCO-0007
03/17/16	TONS	123	SM	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	50580	25.29	RW071	PCO-0007
03/17/16	TONS	3	AWE	22	ESMI	South Sump from 0+80 to 0+90; Ramp along F-Line 0+90 to 1+40 to 12 ft. below existing grade	NH	N	Y	48500	24.25	RW072	PCO-0007
03/22/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	44760	22.38	RW073	PCO-0007
03/22/16	TONS	129	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	48320	24.16	RW076	PCO-0007
03/22/16	TONS	110	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	47520	23.76	RW074	PCO-0007
03/22/16	TONS	130	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	50960	25.48	RW075	PCO-0007
03/22/16	TONS	123	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	46700	23.35	RW077	PCO-0007
03/22/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	53640	26.82	RW078	PCO-0007
03/23/16	TONS	130	CM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43340	21.67	RW080	PCO-0007
03/23/16	TONS	110	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	48920	24.46	RW081	PCO-0007
03/23/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	45320	22.66	RW079	PCO-0007
03/23/16	TONS	129	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43140	21.57	RW082	PCO-0007
03/23/16	TONS	123	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	33880	16.94	RW083	PCO-0007
03/23/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	39240	19.62	RW084	PCO-0007
03/24/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43660	21.83	RW085	PCO-0007
03/24/16	TONS	130	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	54160	27.08	RW086	PCO-0007
03/24/16	TONS	110	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	54800	27.40	RW087	PCO-0007
03/24/16	TONS	129	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	39920	19.96	RW088	PCO-0007
03/24/16	TONS	123	SM	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	39860	19.93	RW089	PCO-0007
03/24/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	45240	22.62	RW090	PCO-0007
03/28/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43300	21.65	RW091	PCO-0007
03/28/16	TONS	123	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	34520	17.26	NH139	11
03/28/16	TONS	123	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	56640	28.32	NH143	11
03/28/16	TONS	129	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43120	21.56	NH142	11

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:
RCS = Royal Carting Service Co.
SM = S.M. Gallivan
CPC - CPC Paving
MCES -
SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY
WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
03/28/16	TONS	129	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	35720	17.86	NH138	11
03/28/16	TONS	110	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	41340	20.67	NH136	11
03/28/16	TONS	110	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	35740	17.87	NH140	11
03/28/16	TONS	130	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	40560	20.28	NH137	11
03/28/16	TONS	130	SM	22	RR	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	43840	21.92	NH141	11
03/28/16	TONS	3	AWE	22	ESMI	South Sump from 0+70 to 0+80 to 11 ft below existing grade; Ramp along F-Line 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	49060	24.53	RW092	PCO-0007
04/01/16	TONS	110	CM	22	ESMI	Sump from F to G 1+15 to 1+40 to 10 ft. below existing grade	NH	N	Y	49760	24.88	RW094	PCO-0007
04/01/16	TONS	AW3	AWE	22	ESMI	Sump from F to G 1+15 to 1+40 to 10 ft. below existing grade	NH	N	Y	43320	21.66	RW093	PCO-0007
04/01/16	TONS	AW3	AWE	22	ESMI	Sump from F to G 1+15 to 1+40 to 10 ft. below existing grade	NH	N	Y	54000	27.00	RW095	PCO-0007
04/04/16	TONS	284	CM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	52420	26.21	NH144	11
04/04/16	TONS	110	SM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	47660	23.83	NH145	11
04/04/16	TONS	130	SM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	43220	21.61	NH150	11
04/04/16	TONS	129	SM	22	ESMI	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	44500	22.25	RW097	PCO-0007
04/04/16	TONS	122	SM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	38620	19.31	NH151	11
04/04/16	TONS	116	SM	22	ESMI	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	43640	21.82	RW096	PCO-0007
04/04/16	TONS	123	SM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	45460	22.73	NH152	11
04/04/16	TONS	143	SM	22	ESMI	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	43180	21.59	RW098	PCO-0007
04/04/16	TONS	284	CM	22	RR	Sump from F to H 1+00 to 1+50 to 10 ft. below existing grade	NH	N	Y	50200	25.10	NH149	11
04/04/16	TONS	110	SM	22	ESMI	South Sump from 0+50 to 0+80 to 11 ft below existing grade; F-Line 0+50 to 0+70 to 11 ft. below existing grade	NH	N	Y	43620	21.81	RW099	PCO-0007
04/04/16	TONS	130	SM	22	RR	South Sump from 0+50 to 0+80 to 11 ft below existing grade; F-Line 0+50 to 0+70 to 11 ft. below existing grade	NH	N	Y	38580	19.29	NH146	11
04/04/16	TONS	122	SM	22	RR	South Sump from 0+50 to 0+80 to 11 ft below existing grade; F-Line 0+50 to 0+70 to 11 ft. below existing grade	NH	N	Y	44520	22.26	NH148	11
04/04/16	TONS	123	SM	22	RR	South Sump from 0+50 to 0+80 to 11 ft below existing grade; F-Line 0+50 to 0+70 to 11 ft. below existing grade	NH	N	Y	45860	22.93	NH147	11
04/05/16	TONS	284	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	53560	26.78	RW102	PCO-0007
04/05/16	TONS	130	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	45360	22.68	RW100	PCO-0007
04/05/16	TONS	110	CM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	42520	21.26	RW101	PCO-0007
04/05/16	TONS	104	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	42860	21.43	RW104	PCO-0007
04/05/16	TONS	171	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	48880	24.44	RW105	PCO-0007
04/05/16	TONS	123	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	47320	23.66	RW103	PCO-0007
04/05/16	TONS	129	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	43440	21.72	RW106	PCO-0007
04/05/16	TONS	122	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	44820	22.41	RW107	PCO-0007
04/05/16	TONS	116	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	44100	22.05	RW108	PCO-0007
04/05/16	TONS	130	CM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	39420	19.71	RW111	PCO-0007
04/05/16	TONS	110	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	41520	20.76	RW110	PCO-0007
04/05/16	TONS	284	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	45660	22.83	RW109	PCO-0007
04/05/16	TONS	143	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	42160	21.08	RW113	PCO-0007
04/05/16	TONS	129	SM	22	ESMI	F to H 0+90 to 1+20 to 12.5 below existing grade; F to H 1+20 to 1+50 to 12 ft. below existing grade	NH	N	Y	36620	18.31	RW112	PCO-0007
04/06/16	TONS	AW3	AWE	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	39640	19.82	R114	PCO-0007
04/06/16	TONS	110	SM	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	42520	21.26	RW115	PCO-0007
04/06/16	TONS	130	SM	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	48020	24.01	RW116	PCO-0007
04/06/16	TONS	122	SM	22	RR	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	50380	25.19	NH153	11
04/06/16	TONS	123	SM	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	44980	22.49	RW117	PCO-0007
04/06/16	TONS	116	SM	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	54040	27.02	RW118	PCO-0007
04/06/16	TONS	171	SM	22	ESMI	F to H 0+70 to 0+90 to 12 ft. below existing grade	NH	N	Y	50720	25.36	RW119	PCO-0007
04/06/16	TONS	143	SM	22	RR	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	48760	24.38	NH154	11
04/06/16	TONS	129	SM	22	RR	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	45080	22.54	NH155	11
04/06/16	TONS	384	CM	22	RR	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	41560	20.78	NH156	11
04/06/16	TONS	122	SM	22	RR	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	48120	24.06	NH157	11
04/06/16	TONS	110	SM	22	ESMI	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	41200	20.60	RW121	PCO-0007
04/06/16	TONS	130	SM	22	ESMI	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	55040	27.52	RW122	PCO-0007
04/06/16	TONS	132	SM	22	ESMI	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	44120	22.06	RW123	PCO-0007
04/06/16	TONS	AW3	AWE	22	ESMI	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	50520	25.26	RW120	PCO-0007
04/06/16	TONS	116	SM	22	ESMI	F to H 0+30 to 0+70 to 6 ft. below existing grade	NH	N	Y	52840	26.42	RW124	PCO-0007
04/07/16	TONS	AW3	AWE	22	ESMI	South Sump from 0+50 to 0+80 to 11 ft below existing grade	NH	N	Y	46720	23.36	RW125	PCO-0007
04/07/16	TONS	284	CM	22	ESMI	South Sump from 0+50 to 0+80 to 11 ft below existing grade	NH	N	Y	60360	30.18	RW126	PCO-0007
04/07/16	TONS	AW3	AWE	22	ESMI	G to H 0+40 to 0+70 to 11.5 ft. below existing grade; F to H 0+60 to 0+70 to 11.5 ft. below existing grade	NH	N	Y	48100	24.05	RW127	PCO-0007
04/07/16	TONS	284	CM	22	ESMI	G to H 0+40 to 0+70 to 11.5 ft. below existing grade; F to H 0+60 to 0+70 to 11.5 ft. below existing grade	NH	N	Y	33860	16.93	RW128	PCO-0007
04/08/16	TONS	285	CM	22	RR	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	54600	27.30	NH160	11
04/08/16	TONS	284	CM	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	48400	24.20	RW129	PCO-0007
04/08/16	TONS	110	SM	22	RR	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	38900	19.45	NH161	11
04/08/16	TONS	285	CM	22	RR	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	37640	18.82	NH158	11
04/08/16	TONS	110	SM	22	RR	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	46740	23.37	NH159	11
04/08/16	TONS	284	CM	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	51080	25.54	RW130	PCO-0007
04/25/16	TONS	110	SM	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	46460	23.23	RW132	PCO-0007
04/25/16	TONS	130	SM	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	51000	25.50	RW133	PCO-0007
04/25/16	TONS	AW3	AWE	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	48040	24.02	RW131	PCO-0007
04/25/16	TONS	120	SM	22	ESMI	G to H 0+25 to 0+40 to 12.5 ft. below existing grade	NH	N	Y	43640	21.82	RW134	PCO-0007
04/26/16	TONS	AW3	AWE	22	ESMI	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	50020	25.01	RW135	PCO-0007

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:
RCS = Royal Carting Service Co.
SM = S.M. Gallivan
CPC - CPC Paving
MCES -
SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY
WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
04/26/16	TONS	285	CM	22	RR	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	45960	22.98	NH163	11
04/26/16	TONS	284	CM	22	ESMI	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	35160	17.58	RW136	PCO-0007
04/26/16	TONS	110	SM	22	ESMI	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	50440	25.22	RW137	PCO-0007
04/26/16	TONS	130	SM	22	ESMI	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	42320	21.16	RW138	PCO-0007
04/26/16	TONS	123	SM	22	ESMI	C to E 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	37220	18.61	RW139	PCO-0007
04/26/16	TONS	285	CM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	40820	20.41	NH162	11
04/26/16	TONS	123	SM	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	38120	19.06	RW145	PCO-0007
04/26/16	TONS	285	CM	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	46160	23.08	RW140	PCO-0007
04/26/16	TONS	AW3	AWE	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	44820	22.41	RW141	PCO-0007
04/26/16	TONS	130	SM	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	43880	21.94	RW142	PCO-0007
04/26/16	TONS	110	SM	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	41780	20.89	RW144	PCO-0007
04/26/16	TONS	123	SM	22	ESMI	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	40060	20.03	RW143	PCO-0007
04/27/16	TONS	130	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	52160	26.08	NH164	11
04/27/16	TONS	123	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	54320	27.16	NH165	11
04/28/16	TONS	130	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade (activated carbon and zeolite mixed in)	NH	N	Y	41140	20.57	NH166	11
04/28/16	TONS	123	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade (activated carbon and zeolite mixed in)	NH	N	Y	41440	20.72	NH167	11
04/28/16	TONS	130	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade (activated carbon and zeolite mixed in)	NH	N	Y	29960	14.98	NH168	11
04/28/16	TONS	123	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade (activated carbon and zeolite mixed in)	NH	N	Y	41840	20.92	NH169	11
04/29/16	TONS	130	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	44840	22.42	NH170	11
04/29/16	TONS	123	SM	22	RR	E to G 0+25 to 0+50 to 12 ft. below existing grade	NH	N	Y	45000	22.5	NH171	11
05/17/16	TONS	123	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	40220	20.11	RW146	PCO-0007
05/17/16	TONS	122	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	43280	21.64	RW147	PCO-0007
05/17/16	TONS	147	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	41560	20.78	RW148	PCO-0007
05/17/16	TONS	116	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	42120	21.06	RW149	PCO-0007
05/17/16	TONS	123	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	46580	23.29	RW150	PCO-0007
05/17/16	TONS	122	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	45560	22.78	RW151	PCO-0007
05/17/16	TONS	147	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	46300	23.15	RW152	PCO-0007
05/17/16	TONS	116	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	45020	22.51	RW153	PCO-0007
05/18/16	TONS	143	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	47540	23.77	RW154	PCO-0007
05/18/16	TONS	123	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	49220	24.61	RW155	PCO-0007
05/18/16	TONS	147	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	49020	24.51	RW156	PCO-0007
05/18/16	TONS	122	SM	22	ESMI	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	35000	17.50	RW157	PCO-0007
05/18/16	TONS	116	SM	22	RR	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	48360	24.18	NH172	11
05/18/16	TONS	129	SM	22	RR	F to I 1+50 to 1+70 to 8 ft. to 11 ft. below existing grade	NH	N	Y	53480	26.74	NH173	11
05/19/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	48700	24.35	RW158	PCO-0007
05/19/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	55020	27.51	RW159	PCO-0007
05/19/16	TONS	143	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	47300	23.65	NH177	11
05/19/16	TONS	116	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	43880	21.94	NH176	11
05/19/16	TONS	116	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	50460	25.23	NH175	11
05/19/16	TONS	143	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	46820	23.41	NH174	11
05/19/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	44100	22.05	RW161	PCO-0007
05/19/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade	NH	N	Y	35700	17.85	RW162	PCO-0007
05/20/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	41860	20.93	RW163	PCO-0007
05/20/16	TONS	143	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	32940	16.47	RW164	PCO-0007
05/20/16	TONS	116	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	26940	13.47	RW165	PCO-0007
05/20/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	39780	19.89	RW166	PCO-0007
05/20/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	38600	19.30	RW167	PCO-0007
05/23/16	TONS	130	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	36840	18.42	RW168	PCO-0007
05/23/16	TONS	143	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	37320	18.66	RW169	PCO-0007
05/23/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	38960	19.48	RW170	PCO-0007
05/23/16	TONS	19	Fette	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	42220	21.11	RW171	PCO-0007
05/23/16	TONS	888	SRS	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	44640	22.32	RW172	PCO-0007
05/23/16	TONS	666	SRS	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	41320	20.66	RW173	PCO-0007
05/23/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	38960	19.48	RW174	PCO-0007
05/23/16	TONS	148	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	42020	21.01	NH178	11
05/23/16	TONS	171	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	39780	19.89	RW175	PCO-0007
05/23/16	TONS	110	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	35840	17.92	RW176	PCO-0007
05/23/16	TONS	147	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	50040	25.02	RW160	PCO-0007
05/23/16	TONS	218	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	39100	19.55	RW177	PCO-0007
05/23/16	TONS	130	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	42620	21.31	RW178	PCO-0007
05/23/16	TONS	143	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	40280	20.14	RW179	PCO-0007
05/23/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	39860	19.93	RW180	PCO-0007
05/23/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	40380	20.19	RW181	PCO-0007
05/24/16	TONS	666	SRS	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	44460	22.23	RW182	PCO-0007
05/24/16	TONS	130	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	44180	22.09	RW183	PCO-0007
05/24/16	TONS	123	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	43160	21.58	RW184	PCO-0007
05/24/16	TONS	122	SM	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	45780	22.89	RW185	PCO-0007

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:
RCS = Royal Carting Service Co.
SM = S.M. Gallivan
CPC - CPC Paving
MCES -
SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY
WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
05/24/16	TONS	110	SM	22	RR	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	45260	22.63	NH179	11
05/24/16	TONS	19	Fette	22	ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	43000	21.50	RW186	PCO-0007
05/24/16	TONS	888	SRS	22	RR/ESMI	H to I 0+25 to 0+70 to 12 ft. below existing grade; H to I 0+70 to 1+50 to 11 ft. below existing grade	NH	N	Y	33420	16.71	NH180	11
06/01/16	TONS	110	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	32040	16.02	RW192	PCO-0007
06/01/16	TONS	147	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	33860	16.93	RW191	PCO-0007
06/01/16	TONS	129	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	34780	17.39	RW190	PCO-0007
06/01/16	TONS	147	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	31060	15.53	RW189	PCO-0007
06/01/16	TONS	110	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	31940	15.97	RW188	PCO-0007
06/01/16	TONS	143	SM	22	ESMI	B to C 1+05 to 1+30 to 5 ft. below existing grade	NH	N	Y	28920	14.46	RW187	PCO-0007
06/02/16	TONS	143	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	40920	20.46	RW198	PCO-0007
06/02/16	TONS	147	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	38420	19.21	RW197	PCO-0007
06/02/16	TONS	110	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	21520	10.76	NH182	11
06/02/16	TONS	129	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	31820	15.91	NH181	11
06/02/16	TONS	110	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	38360	19.18	RW196	PCO-0007
06/02/16	TONS	129	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	30320	15.16	RW195	PCO-0007
06/02/16	TONS	147	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	23920	11.96	RW194	PCO-0007
06/02/16	TONS	143	SM	22	ESMI	B to C 0+90 to 1+30 to 8 ft. below existing grade	NH	N	Y	28560	14.28	RW193	PCO-0007
06/03/16	TONS	123	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	37860	18.93	NH192	11
06/03/16	TONS	129	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	34220	17.11	NH191	11
06/03/16	TONS	148	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	33480	16.74	NH190	11
06/03/16	TONS	171	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	38300	19.15	NH189	11
06/03/16	TONS	143	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	37260	18.63	NH188	11
06/03/16	TONS	110	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	34540	17.27	NH187	11
06/03/16	TONS	129	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	37260	18.63	NH186	11
06/03/16	TONS	123	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	33760	16.88	NH185	11
06/03/16	TONS	148	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	33400	16.70	NH184	11
06/03/16	TONS	171	SM	22	RR	B to C 0+90 to 1+30 to 8 ft. below existing grade; vapor phase activated carbon	NH	N	Y	28340	14.17	NH183	11
06/03/16	TONS	888	SRS	22	ESMI	B to C 0+80 to 0+90 to 4 ft. to 8 ft. below existing grade	H	N	Y	44760	22.38	HAZ03	PCO-004
06/03/16	TONS	777	SRS	22	ESMI	B to C 0+80 to 0+90 to 4 ft. to 8 ft. below existing grade	H	N	Y	46040	23.02	HAZ02	PCO-004
06/03/16	TONS	666	SRS	22	ESMI	B to C 0+80 to 0+90 to 4 ft. to 8 ft. below existing grade	H	N	Y	43440	21.72	HAZ01	PCO-004
06/06/16	TONS	148	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	36460	18.23	NH193	11
06/06/16	TONS	143	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	37800	18.90	NH194	11
06/06/16	TONS	147	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	37100	18.55	NH195	11
06/06/16	TONS	888	SRS	22	ESMI	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	39480	19.74	RW199	PCO-0007
06/06/16	TONS	666	SRS	22	ESMI	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	49640	24.82	RW200	PCO-0007
06/06/16	TONS	110	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	35640	17.82	NH196	11
06/06/16	TONS	123	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	34860	17.43	NH197	11
06/06/16	TONS	116	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	33300	16.65	NH198	11
06/06/16	TONS	122	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	31580	15.79	NH199	11
06/06/16	TONS	129	SM	22	RR	B to C 0+60 to 0+80 to 8 ft. below existing grade; 0+80 to 0+90 to 4 ft. below existing grade; vapor phase actvated carbon	NH	N	Y	29640	14.82	NH200	11
06/06/16	TONS	148	SM	22	RR	B to C 0+40 to 0+50 to 2 ft. below existing grade	NH	N	Y	33060	16.53	NH201	11
06/06/16	TONS	147	SM	22	ESMI	B to C 0+50 to 0+60 to 8 ft. below existing grade	NH	N	Y	35420	17.71	RW201	PCO-0007
06/06/16	TONS	143	SM	22	RR	B to C 0+40 to 0+50 to 2 ft. below existing grade	NH	N	Y	25360	12.68	NH202	11
06/06/16	TONS	110	SM	22	ESMI	B to C 0+50 to 0+60 to 8 ft. below existing grade	NH	N	Y	35560	17.78	RW202	PCO-0007
06/06/16	TONS	123	SM	22	ESMI	B to C 0+50 to 0+60 to 8 ft. below existing grade	NH	N	Y	32840	16.42	RW203	PCO-0007
06/06/16	TONS	116	SM	22	ESMI	B to C 0+40 to 0+50 to 8 ft. below existing grade	NH	N	Y	36660	18.33	RW204	PCO-0007
06/06/16	TONS	122	SM	22	ESMI	B to C 0+40 to 0+50 to 8 ft. below existing grade	NH	N	Y	36660	18.33	RW205	PCO-0007
06/06/16	TONS	129	SM	22	ESMI	B to C 0+40 to 0+50 to 8 ft. below existing grade	NH	N	Y	29080	14.54	RW206	PCO-0007
06/07/16	TONS	123	SM	22	ESMI	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	38660	19.33	RW207	PCO-010
06/07/16	TONS	129	SM	22	ESMI	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	43300	21.65	RW208	PCO-010
06/07/16	TONS	129	SM	22	ESMI	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	29100	14.55	RW209	PCO-010
06/07/16	TONS	123	SM	22	ESMI	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	38040	19.02	RW210	PCO-010
06/07/16	TONS	147	SM	22	RR	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	32820	16.41	NH203	PCO-010
06/07/16	TONS	147	SM	22	RR	Additional Excavation Area to 4 ft. below existing grade	NH	N	Y	42320	21.16	NH204	PCO-010
06/08/16	TONS	147	SM	22	ESMI	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	39400	19.7	RW211	PCO-010
06/08/16	TONS	147	SM	22	ESMI	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	32940	16.47	RW212	PCO-010
06/08/16	TONS	116	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	34040	17.02	NH205	PCO-010
06/08/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	40260	20.13	NH206	PCO-010
06/08/16	TONS	116	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	26160	13.08	NH207	PCO-010
06/09/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	37220	18.61	NH208	PCO-010
06/09/16	TONS	148	SM	22	ESMI	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	43120	21.56	RW213	PCO-010
06/09/16	TONS	110	SM	22	ESMI	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	31100	15.55	RW214	PCO-010
06/10/16	TONS	148	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	29580	14.79	NH209	PCO-010
06/10/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	32780	16.39	NH210	PCO-010
06/10/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	29480	14.74	NH211	PCO-010
06/14/16	TONS	143	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	38100	19.05	NH212	PCO-010
06/14/16	TONS	171	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	42480	21.24	NH213	PCO-010

MANIFEST TRACKING LOG FOR THE COLD SPRING FORMER MGP SITE REMEDIATION

TRANSPORTER:

RCS = Royal Carting Service Co.
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CPC - CPC Paving
MCES -
SRS -
ENV- Envirotech
CM - Charles Millious
AWE - Andy Washburn
Fette - Fette Trucking
Russell - Russel Reid
ERC - Environmental Recovery Corporation

DESIGNATED FACILITY

WHTS = Watch Hill Transfer Station/Royal Carting Service/Hopewell Junction,NY
RR - City of Albany Solid Waste Management Facility Rapp Road
ESMI - ESMI of New York Fort Edward

T = Ton; G = Gallon; P = Pound; K= Kilograms, CY = Cubic Yards
H = Haz. NH = Non-Haz., Y = Yes, N = No N/A =Not Applicable
* = The EST Weight for this load includes 2 tons of C & D debris with soil

Update: 10/18/16

Date	Unit	Truck NO.	Trans-Porter	EST VOL/ Weight	Desig-nated Facility	Description	Type: Haz or NonHaz	Return Original Yes / No	Weight Ticket Y/N	Scale Weight LBS	Scale Weight TONS	Waste Tracking Number	Item / PCO #
06/14/16	TONS	143	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	35760	17.88	NH214	PCO-010
06/16/16	TONS	171	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	45380	22.69	NH215	PCO-010
06/16/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	42440	21.22	NH216	PCO-010
06/16/16	TONS	171	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	43140	21.57	NH217	PCO-010
06/16/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade	NH	N	Y	42020	21.01	NH218	PCO-010
07/06/16	TONS	123	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	33120	16.56	NH219	PCO-010
07/06/16	TONS	129	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	30620	15.31	NH220	PCO-010
07/06/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	45740	22.87	NH221	PCO-010
07/06/16	TONS	123	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	31920	15.96	NH222	PCO-010
07/06/16	TONS	129	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	39900	19.95	NH223	PCO-010
07/06/16	TONS	110	SM	22	RR	Additional Excavation Area to 10 ft. below existing grade; Liquid-Phase Carbon; Zeolite; Frac. Tank Bottoms	NH	N	Y	45240	22.62	NH224	PCO-010
07/22/16	CY	376	Russell	25	Russell	Tank Bottoms	NH	N	Y	33660	16.83		
09/27/16	DRUMS		ERC	4	ERC	Monitoring Well Installation Drilling Spoils (2 Drums); Monitoring Well Installation Development Water (2 Drums)							

APPENDIX G

TRANSPORTATION AND DISPOSAL PERMITS (ON DVD)

APPENDIX H

IMPORTED MATERIAL WEIGHT TICKETS (ON DVD)

APPENDIX I

CHANGE ORDERS (ON DVD)

URS CORPORATION

URS Corporation
257 West Genesee Street
Buffalo, New York 14202
Phone 716.856.5636 Fax 716.856.2545

Field Office
Cold Spring Former MGP Site
Cold Spring, New York
Phone 716.812.3905

Proposed Change Order (PCO) Log

Cold Spring Former Manufactured Gas Plant Site, NYSDEC Site No. 340026

Date: March 26, 2017 (6:32PM)

Y = yes N = no TBD = to be determined

PCO. No.	Initiated by / Date	Brief Description of Potential Change Order	Change Order Number	URS Response & Submittal Status	Cost Received, Cost Reviewed	Revised or Resubmitted	Final Submittal	Date Accepted or Rejected	Proposed Cost Increase or Decrease (per executed Change Order)	Time Increase or Decrease
0001	**Watermark 10/20/15**	**Delivery of 4 additional vibration monitors to the site. Operation of monitors for 5 months**		Rejected	Y, Y	N	Y	11/06/15	$43,059.98	0 day
0001	**Watermark 12/28/15**	**Delivery of 4 additional vibration monitors to the site. Operation of monitors for 5 months**	1	Resubmit with Revisions on 01/14/16	Y, Y	Y (PCO resubmitted on 02/03/16)	Y	Approved as Noted on 02/10/16	$12,531.75	0 day
0002	**Watermark 10/29/15**	**Soil Sampling via Geoprobe at eight locations to the west of The Boat Club Building Foundation**	1	Resubmit with Revisions on 11/09/15; Resubmit with Revisions on 12/07/15; Resubmit with Revisions 01/14/16	Y,Y	Y (Backup submitted on 11/17/15 and 11/24/15; PCO resubmitted on 12/14/15; PCO Resubmitted on 12/22/15; PCO resubmitted on 01/05/16; PCO resubmitted	Y	Approved as Noted on 02/10/16; Request for Revisions on 03/15/16; Approved as Noted on 03/16/16	$18,959.97	0 days

						on 02/03/16; PCO resubmitted on 03/16/16)				
0003	**Watermark 11/18/15**	**Per Field Order No. 1, Coordinate installation of electrical power to through pad-mounted transformer onsite with Central Hudson Gas and Electric**	1	Resubmit with Revisions on 12/07/15	Y,Y	Y (12/14/15; PCO resubmitted on 12/22/15; PCO resubmitted on 01/04/16; PCO reformatted on 02/03/16)	Y	Approved As Noted on 01/05/16; Request for Revisions on 01/14/16	$11,786.16	0 days
0004	**Watermark 12/07/15**	**Postponement of excavation activities onsite as a result of hazardous soil identification and direction in Field Order No. 4 not to excavate during the week of Thanksgiving.**	2	Resubmit with Revisions on 01/21/16; Resubmit with Revisions on 04/12/16	Y,Y	Y (01/07/15; PCO Resubmitted on 03/14/16; Resubmitted on 05/16/16; PCO resubmitted on 08/05/16)	Y	Approved As Noted on 06/02/16; Contract Time Extension Approved As Noted on 08/08/16	$52,111.00	10.5 days
0005	**Watermark 12/07/15**	**Per Field Order No. 5, deliver and install jersey barriers along New Street for six months**	1		Y,Y	Y (12/22/15; PCO resubmitted on 01/04/15; PCO reformatted on 02/03/16; PCO reformatted 02/05/16)	Y	Approved As Noted on 01/05/16; Request for Revisions on 01/14/16	$12,409.15	0 day

0006	**Watermark 01/07/16**	**Per Field Order No. 6, Response to RFI No. 15, and Field Order No. 7, pre-trench area of sheet pile wall; stockpile excavated rock onsite; loadout, transport, and dispose of stockpiled rock**	1	Resubmit with Revisions on 01/22/16; Manually marked up by URS and Watermark on 01/26/16	Y,Y	Y (PCO resubmitted on 02/23/16)	Y	Approved As Noted on 02/24/16	$201,182.50	7 days
007A/ 007B	**Watermark 02/11/16**	**Per direction in Progress Meetings, prepare unit pricing for excavation, handling, and processing future oversized rock (007A) and transportation and disposal of future oversized rock (007B)**	2	Disapproved on 02/17/16; Manually marked up by URS and Watermark on 03/08/16	Y,Y	Y (Draft PCO resubmitted on 03/07/16; Draft PCO resubmitted on 03/14/16; PCO resubmitted on 04/27/16; PCO resubmitted on 08/04/16)	Y	Approved As Noted on 04/07/16 Pending resubmittal of PCO based on markup provided; Approved As Noted on 05/02/16; Approved As Noted on 08/08/16	$57.75/cy for Excavation of ESMI material after 03/08/16; $131.96/ton for transportation and disposal of ESMI material after 03/08/16	7 days
008	**Watermark 03/15/16**	**Per direction from NYSDEC on 03/03/16, prepare a PCO for the credit associated with not relocating the Temporary Containment Structure.**	2	Per e-mail from URS to Watermark on 03/18/16, NYSDEC does not want to pursue further; Resubmit with Revisions on 05/09/16; Resubmit with Revisions on 05/26/16	Y,Y	Y (Draft PCO resubmitted on 03/18/16; PCO resubmitted on 05/17/16; PCO Resubmitted 06/20/16)	Y	Approved on 06/22/16	($29,801.38)	Decrease of 10 days

009	**Watermark 03/28/16**	**Alternate equipment used for sheet piling installation than originally planned, due to rock stockpile onsite. Alternate equipment required additional labor and reduced production rate**	2	Rejected on 04/12/16; Resubmit with Revisions on 06/21/16; Resubmit with Revisions on 07/28/16; Resubmit with Revisions on 09/15/16; Resubmit with Revisions on 10/14/16	Y,Y	Y (PCO resubmitted on 06/01/16; Responded to Comments on 09/06/16; PCO resubmitted on 10/05/16)			$73,804.07	4 days
010	**Watermark 04/27/16**	**Completion of additional excavation, backfilling, and restoration as needed in the area referenced in Field Order No. 8**	2		Y,Y	Y (Resubmitted Draft on 05/04/16 After Watermark Received Markup After Progress Meeting No. 14; Resubmitted Final on 05/16/16)	Y	Approved As Noted on 05/26/16	$78,176.10	3 days
012	**Watermark 07/19/16**	**Time and Materials associated with handling oversized rock and using it as backfill material**	2	Resubmit with Revisions on 07/26/16	Y,Y	Y (PCO resubmitted on 08/04/16)	Y	Approved on 08/08/16	$12,098.05	0 days
011	**Watermark 07/29/16**	**Additional costs associated with re-design and installation of the tieback anchors**	2	Resubmit with Revisions on 08/12/16; Resubmit with Revisions on 09/16/16	Y,Y	Responded to 08/12/16 Comments on 09/06/16 and 09/16/16; Marked Up per Conversation			$52,633.95	3 days

						Between K. Jackson and G. Mignot on 10/07/16; Marked Up per Conference Call Between URS and Watermark on 10/19/16. This Mark-Up Served As Final PCO in Change Order No. 2				

APPENDIX J

BORING LOGS AND WELL CONSTRUCTION DETAILS (ON DVD)

APPENDIX K

RECORD DRAWINGS

REMEDIAL ACTION

CONTRACT DRAWINGS

FOR THE

COLD SPRING FORMER MGP SITE REMEDIAL CONSTRUCTION

NYSDEC SITE 340026

COLD SPRING (V), PUTNAM COUNTY, NEW YORK

CONTRACT D009635

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

Prepared for:

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

DIVISION OF ENVIRONMENTAL REMEDIATION

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY 'REVISION CLOUD' HAVE BEEN ALTERED BY DAVID J. DICESARE, PE

MAY 2015

URS Corporation
New York

257 West Genesee Street, Suite 400
Buffalo, New York 14202
(716)856-5636 phone - (716)856-2545 fax

J:\01 Projects\15XXX\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\COVER.dwg, COVER, 1:1, 12/28/2016, 1--ELB

LEGEND

- BUILDING OUTLINE
- TO BE DEMOLISHED
- CONCRETE AREA
- GRAVEL AREA
- INITIAL EXCAVATION AREA
- INITIAL EXCAVATION AREA WITH STABILIZED BACKFILL
- ----592---- CONTOUR ELEVATION
- FENCE
- BURIED STRUCTURE
- PROPERTY LINE
- AREA OF ENVIRONMENTAL EASEMENT
- OVERHEAD ELECTRICAL, TELEPHONE & CABLE LINE
- UNDERGROUND ELECTRICAL LINE
- —SAN— SANITARY SEWER LINE
- —FM— FORCEMAIN
- —W— WATER LINE
- APPROXIMATE LIMITS OF EXCAVATION
- UP PP UTILITY/POWER POLE
- E ELECTRIC PULLBOX
- S SANITARY MANHOLE
- CB CATCH BASIN
- MONITORING WELL
- KIPS 1,000 lbs
- SHEETPILE
- FOOTPRINT TCS
- ITEM TO BE REMOVED/DEMOLISHED
- 1 DETAIL NUMBER
- C-005 | D-001 SHEET ON WHICH DETAIL IS CALLED OUT / SHEET ON WHICH DETAIL IS LOCATED
- A SECTION LETTER
- C-001 | C-008 SHEET ON WHICH SECTION IS LOCATED / SHEET ON WHICH SECTION IS CUT

ABBREVIATIONS

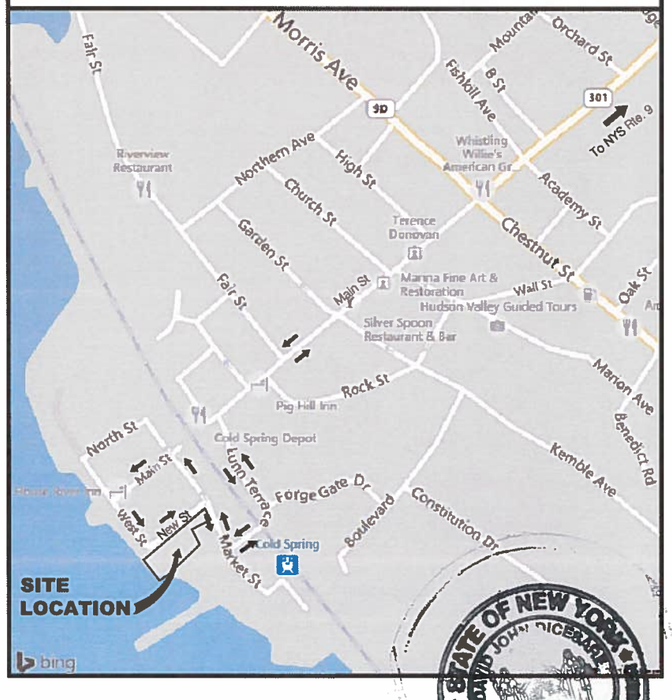
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BGS	BELOW GROUND SURFACE
CB	CATCH BASIN
C/C	CENTER TO CENTER
CHG&E	CENTRAL HUDSON GAS AND ELECTRIC
℄	CENTERLINE
CONC.	CONCRETE
DL	DESIGN LOAD
EL., ELEV.	ELEVATION
EXIST.	EXISTING
MH	MANHOLE
msl	MEAN SEA LEVEL
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE (ELECTRIC AND OTHER UTILITIES)
PP	POWER POLE
RET.	RETAINING WALL
STA.	STATION
TCS	TEMPORARY CONTAINMENT STRUCTURE
TYP.	TYPICAL
UP	UTILITY POLE

GENERAL NOTES

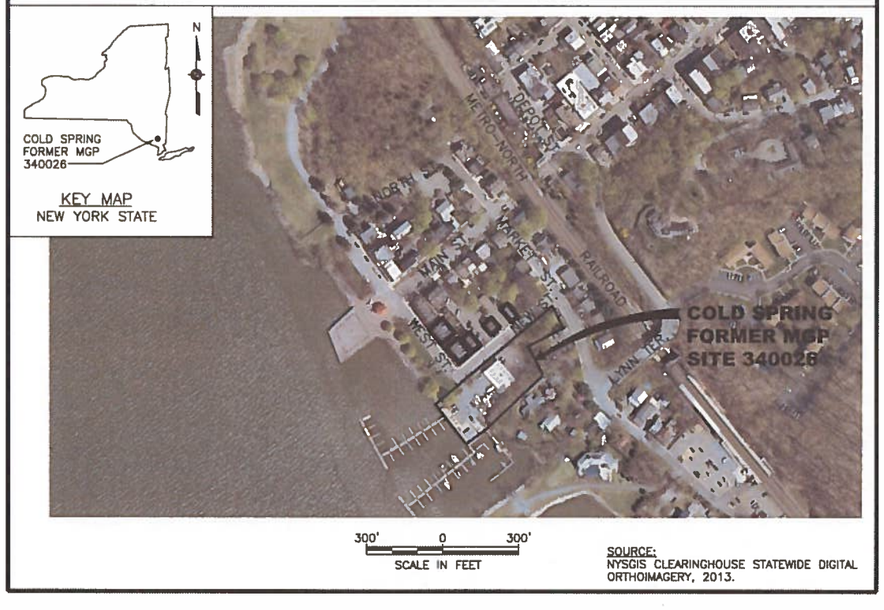
1. HORIZONTAL DATUM IS BASED UPON THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. VERTICAL DATUM IS BASED UPON THE ELEVATIONS OF THE MONITORING WELLS ESTABLISHED BY WILLIAM D. YOUNGBLOOD LAND SURVEYING, P.C. AS SHOWN ON A DRAWING TITLED "SURVEY FOR VILLAGE OF COLD SPRING", FILE #P-1001, DATED 9/11/08, WHICH WAS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. TOPOGRAPHIC SURVEY INFORMATION, FROM DRAWING P-1001, DATED 9/11/08, PROVIDED BY WILLIAM D. YOUNGBLOOD, LAND SURVEYING, P.C.
4. CONTOUR ELEVATIONS FROM YEC, INC., DATED JUNE 2013.
5. THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. CERTAIN PRIVATE UTILITIES ARE SHOWN CONCEPTUALLY. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES AND PROPERTY OWNERS SHALL BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE. FOR ASSISTANCE CALL UFPO AT 1-800-962-7962.

INDEX OF DRAWINGS

HAUL ROUTE MAP



SITE LOCATION MAP



SOURCE: NYSGIS CLEARINGHOUSE STATEWIDE DIGITAL ORTHOIMAGERY, 2013.

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

STATE OF NEW YORK — DAVID JOHN DICESARE — LICENSED PROFESSIONAL ENGINEER

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	02/22/17	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

URS Corporation
New York
257 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176853

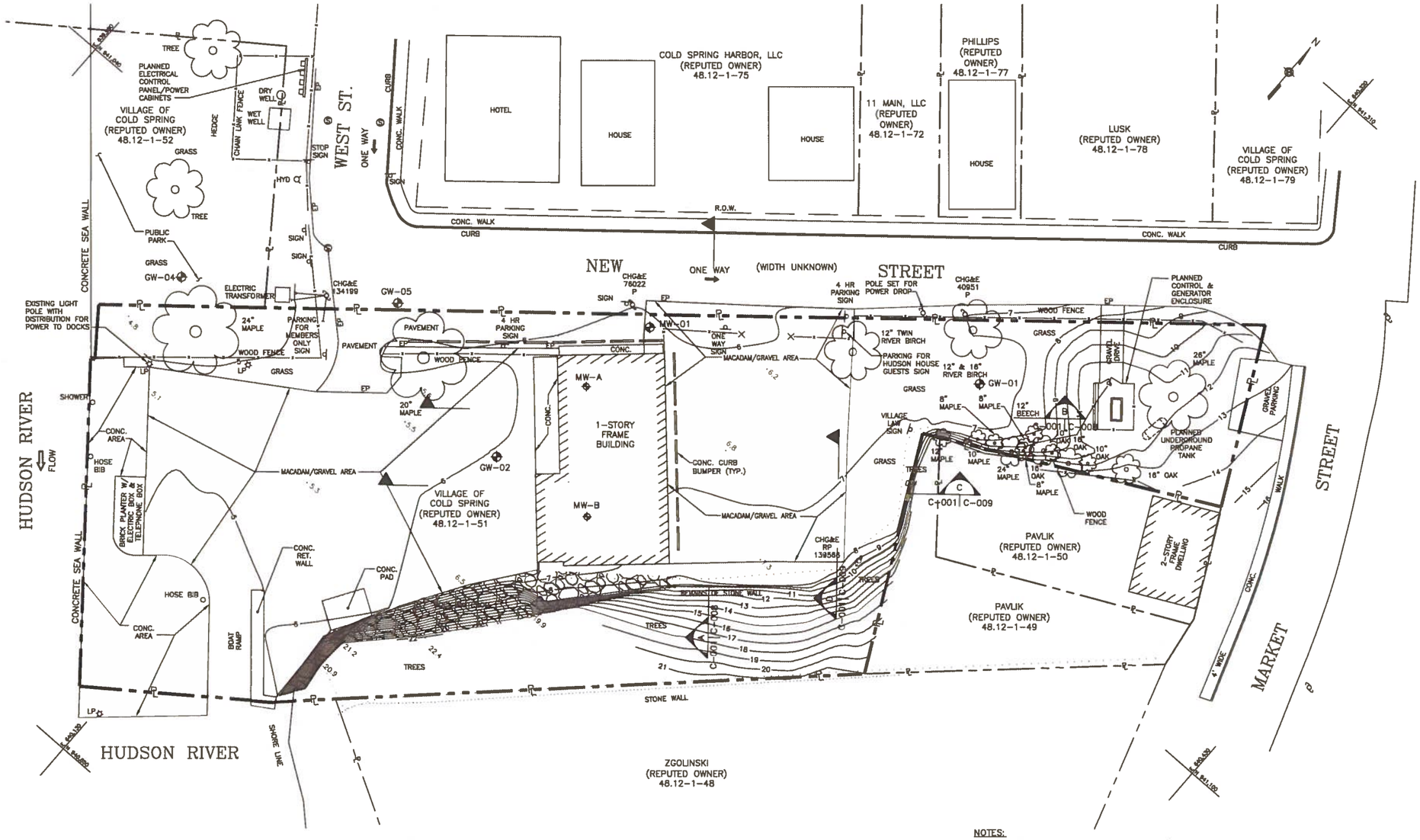
PUTNAM COUNTY
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

ABBREVIATIONS, LEGEND, GENERAL NOTES, INDEX OF DRAWINGS, AND SITE LOCATION MAP

Scale: AS SHOWN | Date: MAY 2015 | **G-001**

J:\01 Projects\15XXX\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\G-001.dwg, G-001, 1:1, 1/5/2017, 1-ELB



SURVEY CONTROL TABLE
(SEE GENERAL NOTES 2 AND 3, DWG. G-001)

SURVEY CONTROL POINT ID	NORTHING (US SURVEY FOOT NAD83)	EASTING (US SURVEY FOOT NAD83)	ELEVATION (US SURVEY FOOT NAVD88)
GW-01	941153.50	640286.38	7.01
GW-02	941024.83	640176.65	6.24
GW-04	940999.87	640053.97	4.65
GW-05	941042.29	640116.32	5.57

NOTES:

1. LOCATIONS, SIZES, ETC. OF CERTAIN EXISTING FEATURES HAVE BEEN APPROXIMATED FROM PUBLICALLY AVAILABLE AERIAL PHOTOGRAPHY.
2. LOCATIONS OF CONTROL & GENERATOR ENCLOSURE AND RELATED STRUCTURES AND UTILITIES HAVE BEEN APPROXIMATED FROM A DRAWING PREPARED BY OAKWOOD ENVIRONMENTAL ASSOCIATES CONSULTING ENGINEERS, FOR THE VILLAGE OF COLD SPRING RELOCATION OF CONTROLS AND EMERGENCY GENERATOR WEST STREET PUMP STATION PROJECT, DRAWING TITLED "SITE PLAN" DATED 10/22/14. WORK IS SCHEDULED TO BE COMPLETED BY THE VILLAGE OF COLD SPRING IN SPRING 2015.
3. THE SITE IS CURRENTLY LEASED BY THE COLD SPRING BOAT CLUB FROM THE VILLAGE OF COLD SPRING. IT WILL BE VACATED BY BEFORE ISSUANCE OF NOTICE TO PROCEED.
4. THE 100-YEAR WATER SURFACE ELEVATION IN THE AREA OF THE SITE IS EL. 7 NAVD88.
5. LOCATION OF NEW STREET ROW APPROXIMATED FROM AN ALTA/ACSM LAND TITLE SURVEY PREPARED FOR THE VILLAGE OF COLD SPRING (FILE No. 79-102) BY BADEY & WATSON SURVEYING & ENGINEERING, P.C. DATED NOVEMBER 10, 2010 WITH A REVISION DATE OF MARCH 12, 2012.
6. FOR ADDITIONAL PRE-CONSTRUCTION INFORMATION, REFER TO SUPPLEMENTAL DRAWING "PRE-C-1." (1)

20' 0 20'
SCALE IN FEET

RECORD DRAWING (1)

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	02/22/17	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

URS Corporation
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JOB NO. 11176853

PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXISTING SITE CONDITIONS

Scale: AS SHOWN | Date: MAY 2015 | **C-001**

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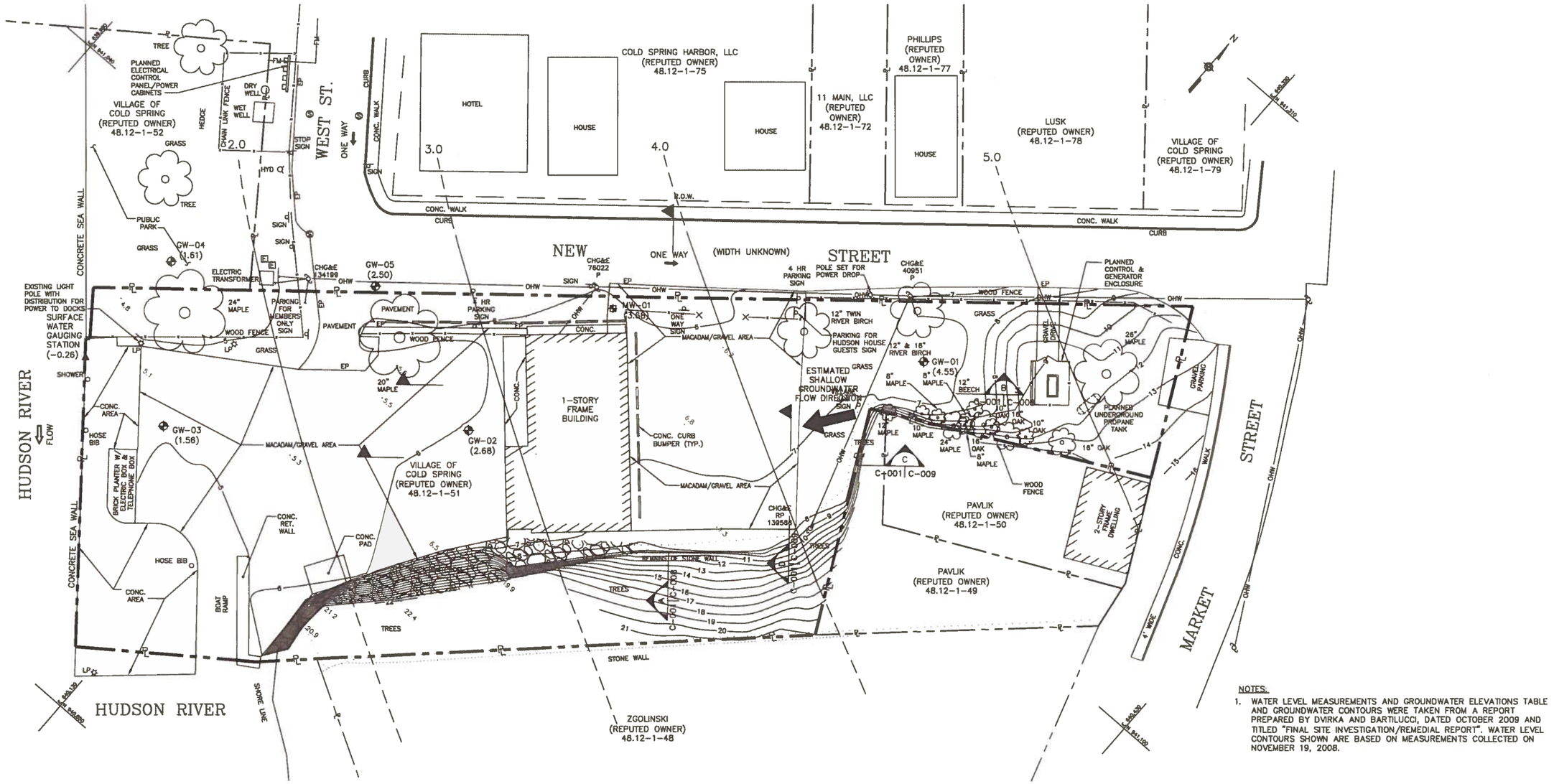

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER ELEVATIONS TABLE AND GROUNDWATER CONTOURS WERE TAKEN FROM A REPORT PREPARED BY DVIRKA AND BARTILUCCI, DATED OCTOBER 2009 AND TITLED "FINAL SITE INVESTIGATION/REMEDIAL REPORT". WATER LEVEL CONTOURS SHOWN ARE BASED ON MEASUREMENTS COLLECTED ON NOVEMBER 19, 2008.

WATER LEVEL MEASUREMENTS AND GROUNDWATER ELEVATIONS

	SEPTEMBER 22, 2008	OCTOBER 2, 2008	OCTOBER 20, 2008	NOVEMBER 19, 2008
MEASUREMENT LOCATION	WATER ELEVATION (ft msl)	WATER ELEVATION (ft msl)	WATER ELEVATION (ft msl)	WATER ELEVATION (ft msl)
GW-01	4.24	4.18	4.21	4.55
GW-02	2.50	2.91	2.88	2.68
GW-03	1.53	2.03	3.29	1.56
GW-04	1.54	2.06	3.19	1.61
GW-05	2.34	2.78	2.90	2.50
MW-01	N/A	3.67	3.56	3.68
SURFACE WATER GAGING STATION	-0.11	0.31	4.34	

LEGEND

MW-01 (3.68)	NYSDEC GROUNDWATER MONITORING WELL COMPLETED IN 2005 WITH GROUNDWATER ELEVATION IN FEET (NAVD88)
GW-02 (2.68)	GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET (NAVD88)
2.0	GROUNDWATER ELEVATION CONTOUR LINE, DASHED WHERE INFERRED (NAVD88)

20' 0 20'
SCALE IN FEET

RECORD DRAWING

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

URS Corporation
New York
257 West Genesee Street, Suite 400, Buffalo, New York 14202
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JOB NO. 11176853

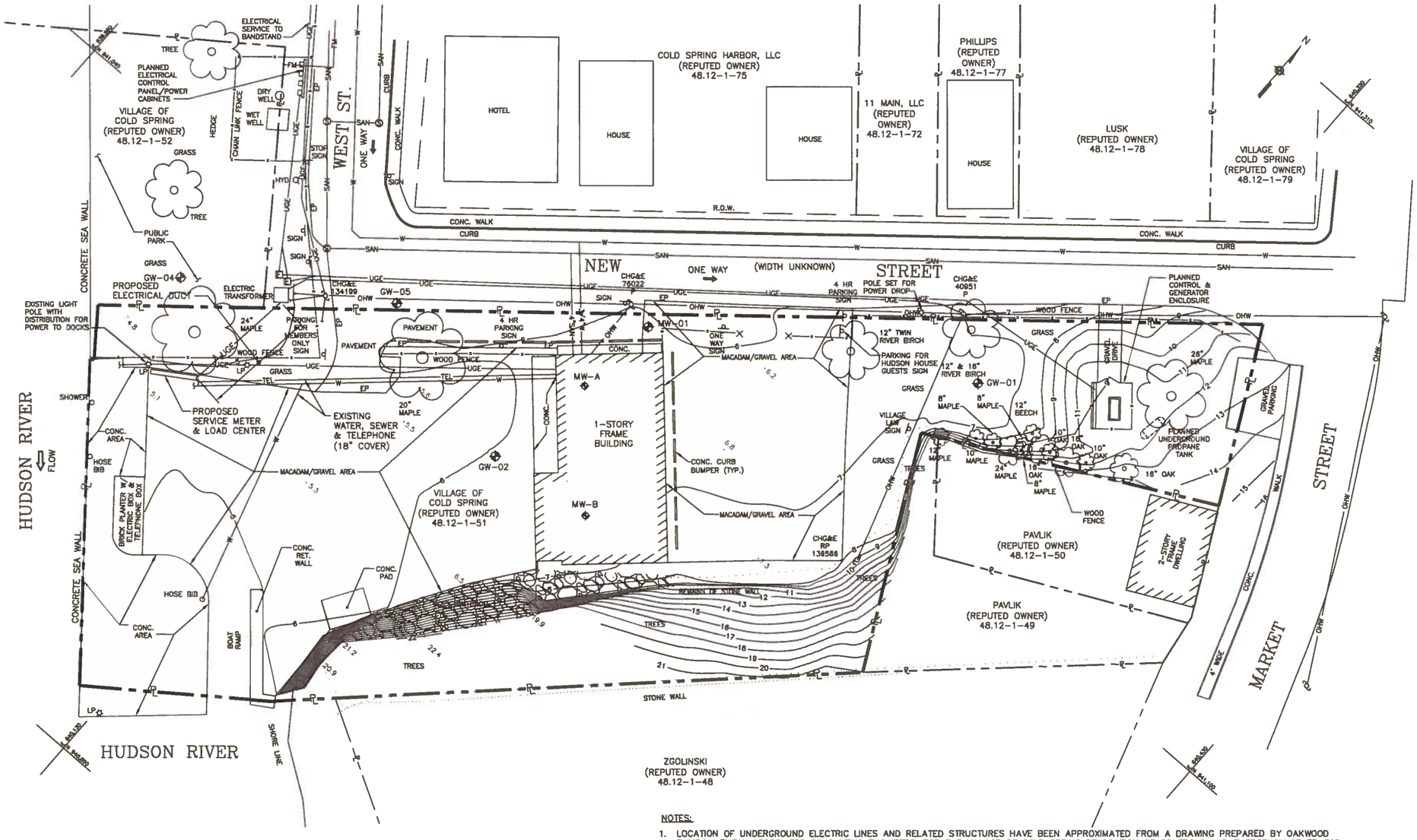
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXISTING SITE CONDITIONS GROUNDWATER CONTOUR MAP

Scale: AS SHOWN | Date: MAY 2015 | **C-002**

J:\01 Projects\150027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-002 -GROUNDWATER MAP.dwg, C-002, 1:1, 12/28/2015, 1:=ELB



NOTES:

1. LOCATION OF UNDERGROUND ELECTRIC LINES AND RELATED STRUCTURES HAVE BEEN APPROXIMATED FROM A DRAWING PREPARED BY OAKWOOD ENVIRONMENTAL ASSOCIATES CONSULTING ENGINEERS, FOR THE VILLAGE OF COLD SPRING RELOCATION OF CONTROLS AND EMERGENCY GENERATOR WEST STREET PUMP STATION PROJECT, DRAWING TITLED "SITE PLAN" DATED 10/22/14. WORK IS SCHEDULED TO BE COMPLETED BY THE VILLAGE OF COLD SPRING IN SPRING 2015.
2. THE CONTRACTOR SHALL INSTALL NEW DUCT AND CABLING FROM THE PAD-MOUNTED TRANSFORMER TO THE SERVICE METER AND LOAD CENTER, AND TIE INTO EXISTING LIGHT POLE NEAR SEAWALL.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, WIRING SERVICE, LOAD CENTER, ENCLOSURE, AND SUPPORTING STRUCTURES SIZED TO MEET THE LOAD REQUIREMENTS OF THE DOCK AREA (CURRENTLY SUPPLIED BY BOAT CLUB BUILDING).
4. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE INSTALLATION REQUIREMENTS WITH CENTRAL HUDSON.
5. CONTRACTOR SHALL PROVIDE GFI PROTECTION FOR LOADS AS REQUIRED BY NEC.
6. CABINET SHALL BE A MINIMUM 48-INCH WIDE, FREE STAND DISCONNECT WITH QUICK-RELEASE CONTINUOUS HINGE, TYPE 4, BY PENTAIR, OR APPROVED EQUAL, MOUNTED ON A MINIMUM 24-INCH THICK CONCRETE PAD.
7. ENCLOSURE AND METER SHALL BE MOUNTED ON STEEL FRAMED STRUCTURE ATTACHED TO GALVANIZED STEEL PIPES SECURELY ANCHORED IN CONCRETE.
8. MATERIALS AND SIZE OF CONDUIT TO BE CONSISTENT WITH EXISTING CONDUIT; MINIMUM SCHEDULE 80. STUB-UP TRANSITIONS TO ABOVE-GRADE SHALL BE RIGID GALVANIZED STEEL.
9. CONTRACTOR SHALL RELOCATE VERIZON PHONE LINE BETWEEN POLES 76022 AND 134199 TO EXISTING CONDUIT WITHIN NEW STREET.

20' 0 20'
SCALE IN FEET

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

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JOB NO. 11176853

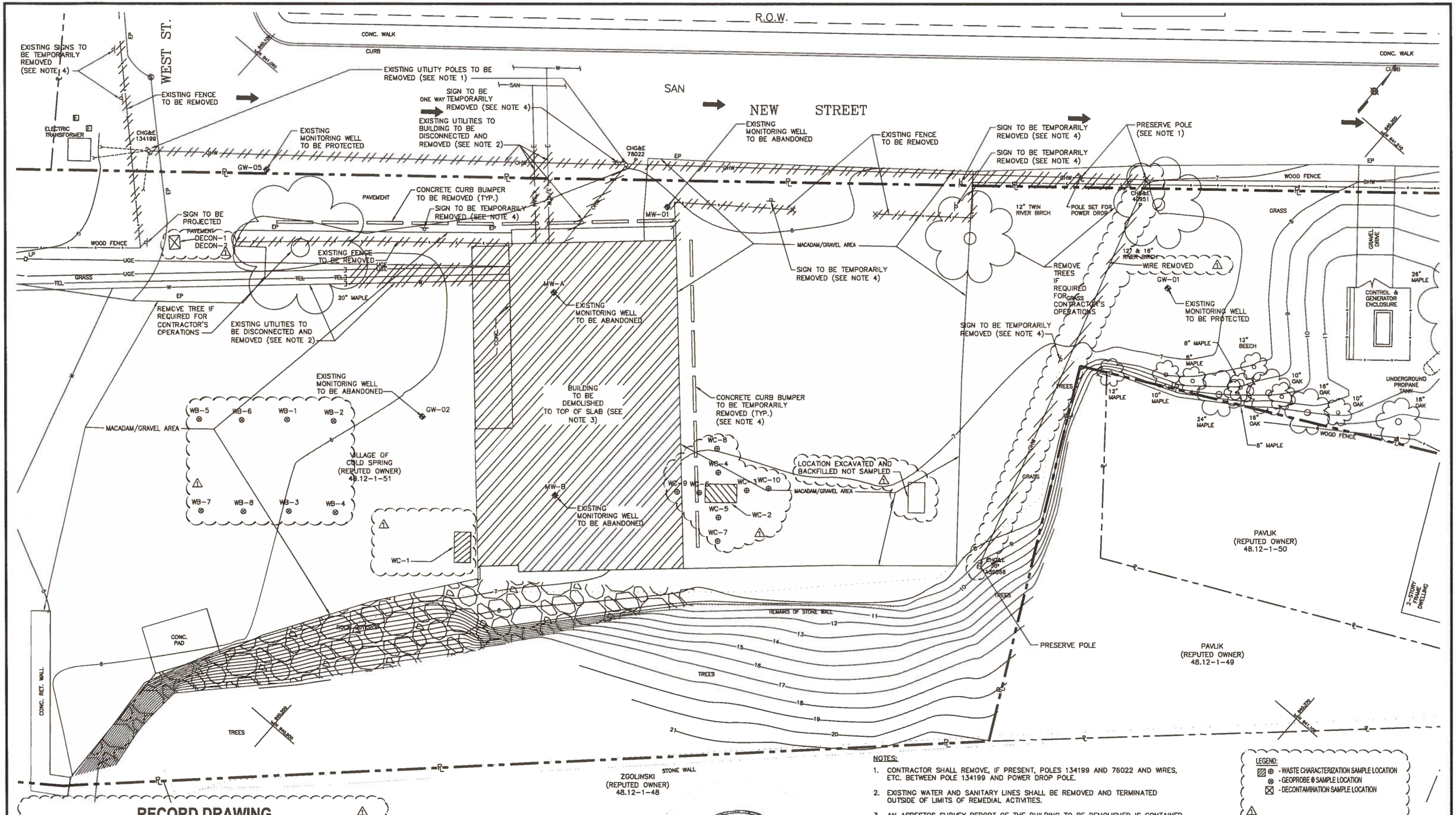
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

UTILITY PLAN

Scale: AS SHOWN | Date: MAY 2015 | **C-003**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-003 -EXIST UTILITIES.dwg, C-003, 1:1, 12/9/2016, 1-ELB



RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

NOTES:

1. CONTRACTOR SHALL REMOVE, IF PRESENT, POLES 134199 AND 76022 AND WIRES, ETC. BETWEEN POLE 134199 AND POWER DROP POLE.
2. EXISTING WATER AND SANITARY LINES SHALL BE REMOVED AND TERMINATED OUTSIDE OF LIMITS OF REMEDIAL ACTIVITIES.
3. AN ASBESTOS SURVEY REPORT OF THE BUILDING TO BE DEMOLISHED IS CONTAINED IN THE LIMITED SITE DATA DOCUMENT. NO ACM WAS DETECTED.
4. THE CONTRACTOR SHALL ASSUME THAT ALL SIGNS AND CURB BUMPERS REMOVED, WILL BE REINSTALLED AT THE END OF THE PROJECT. THE NEW LOCATION WILL BE DETERMINED DURING RESTORATION.

LEGEND:
- ⊕ - WASTE CHARACTERIZATION SAMPLE LOCATION
- ⊗ - GEOPROBE ® SAMPLE LOCATION
- ⊠ - DECONTAMINATION SAMPLE LOCATION
- ⚠

SCALE IN FEET: 10' 0 10'

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
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STATE OF NEW YORK — DAVID JOHN DICESARE — 072847 — LICENSED PROFESSIONAL ENGINEER

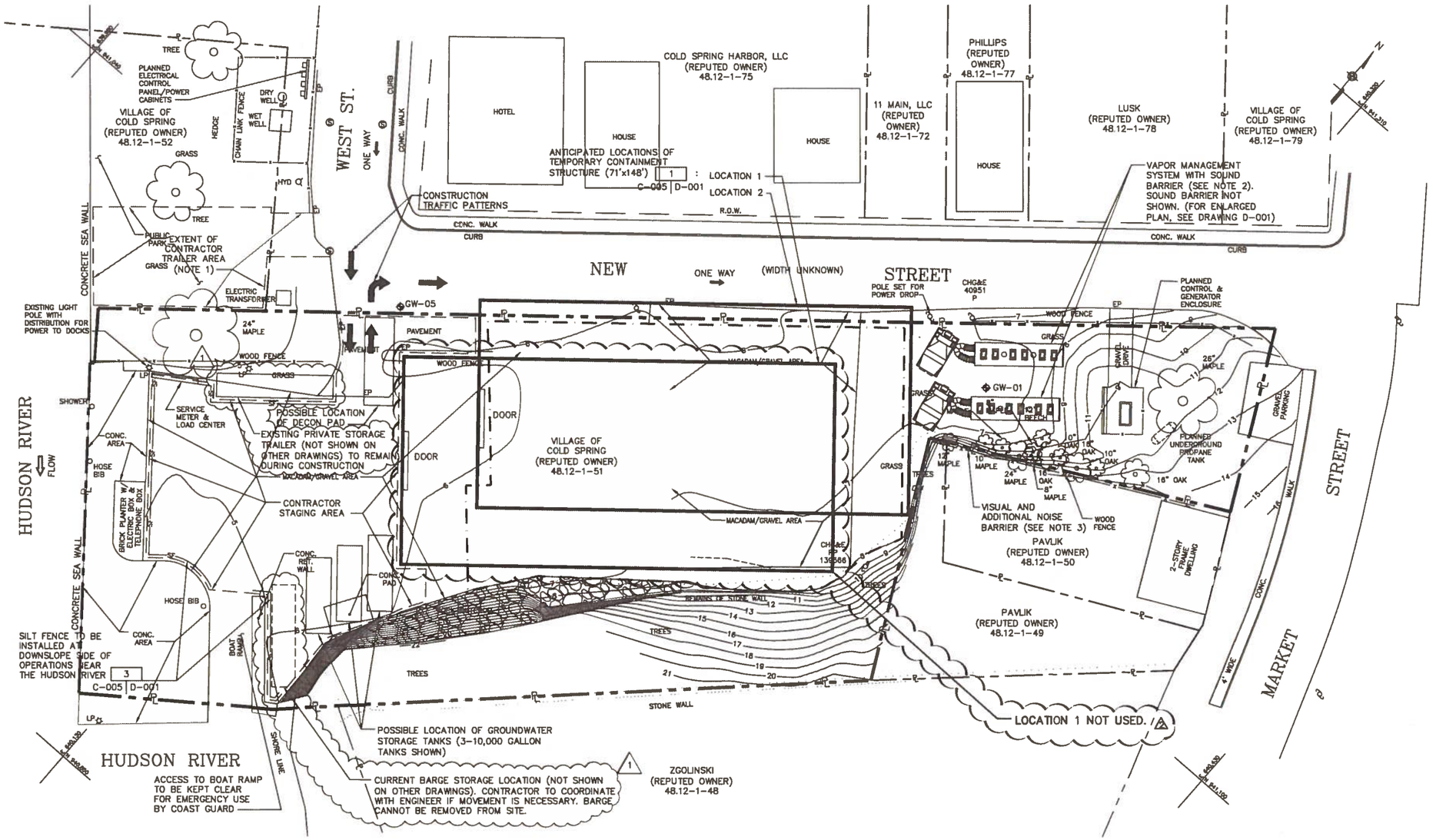
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

DEMOLITION PLAN

Scale: AS SHOWN | Date: MAY 2015 | **C-004**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-004 -DEMO.dwg, C-004, 1:1, 1/5/2017, 1-ELB



NOTES:

1. THE CONTRACTOR SHALL PROTECT ALL TREES AND UTILITIES WITHIN THE CONTRACTOR TRAILER AREA. SOME ITEMS NOT SHOWN.
2. ALL ASPECTS OF THE CONTRACTOR'S OPERATIONS SHALL MEET THE REQUIREMENTS OF THE NOISE ORDINANCE (CHAPTER 76) OF THE CODES OF THE VILLAGE OF COLD SPRING, NEW YORK.
3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF A TEMPORARY VISUAL BARRIER, AND A SUPPLEMENTAL NOISE BARRIER (AS NECESSARY TO MEET VILLAGE NOISE ORDINANCE), WITH THE OWNER OF THE ADJACENT UPSLOPE PROPERTY.

LEGEND

- REQUIRED LIMITS OF EXCAVATION (SEE DRAWING C-006)
- VISUAL BARRIER (SEE NOTE 3)
- SILT FENCE
- FOOTPRINT OF TCS

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

STATE OF NEW YORK — DAVID JOHN DICESARE — LICENSED PROFESSIONAL ENGINEER — 12/8/16

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	LSP	DJD	11/02/16	RECORD DRAWING MODIFICATIONS
1	ELB	RW	06/19/15	ADDED STORAGE TRAILER AND BARGE
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
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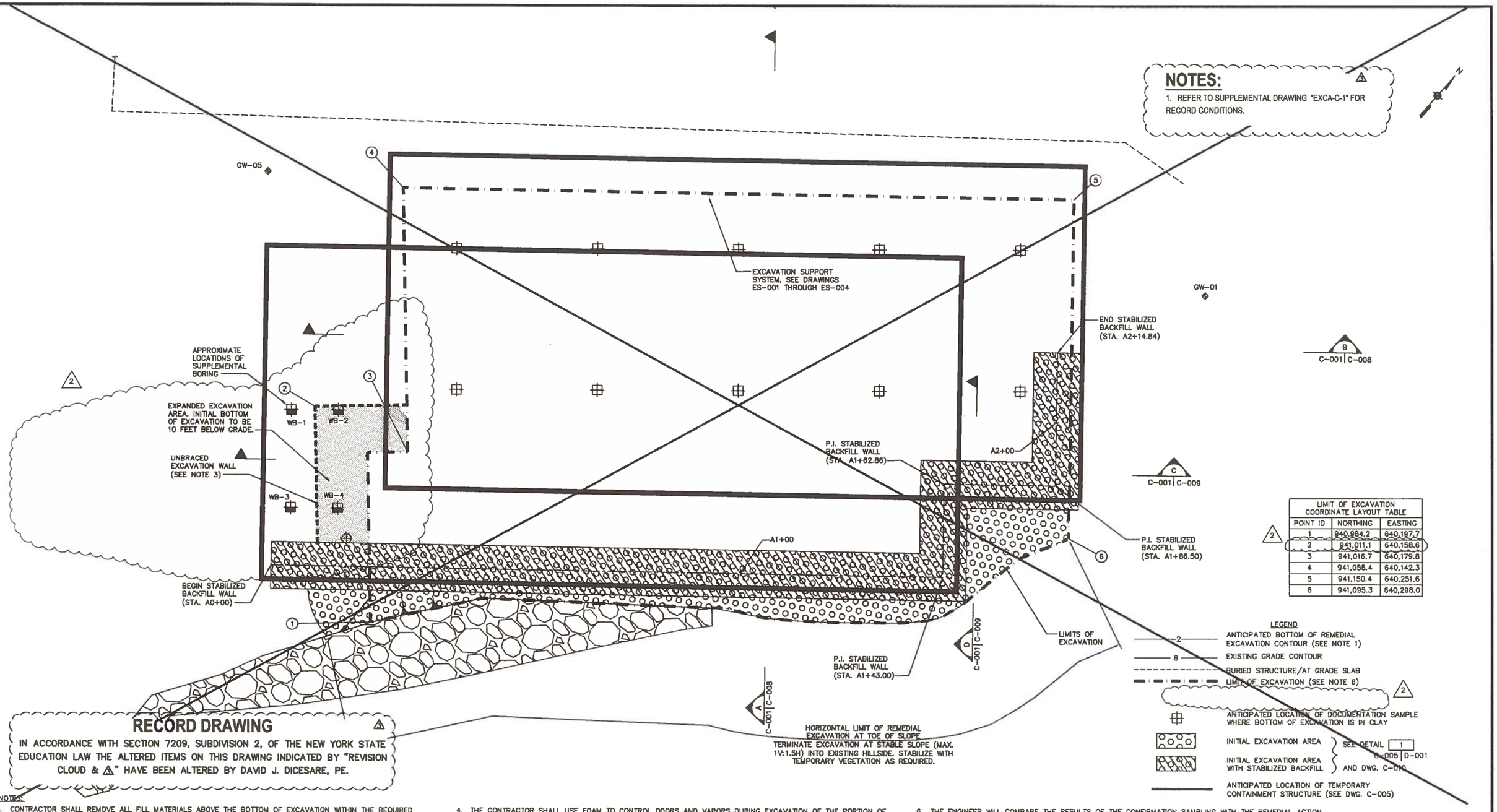
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXCAVATION ACTIVITIES PLAN SITE LAYOUT

Scale: AS SHOWN | Date: MAY 2015 | **C-005**

J:\01 Projects\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-005 - REMEDIAL REV-1.dwg, C-005, 1:1, 12/9/2016, 1-ELB



LIMIT OF EXCAVATION COORDINATE LAYOUT TABLE		
POINT ID	NORTHING	EASTING
1	940,984.2	640,197.7
2	941,011.1	640,158.6
3	941,016.7	640,179.8
4	941,058.4	640,142.3
5	941,150.4	640,251.6
6	941,095.3	640,298.0

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & △" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

NOTES:

1. CONTRACTOR SHALL REMOVE ALL FILL MATERIALS ABOVE THE BOTTOM OF EXCAVATION WITHIN THE REQUIRED LIMITS OF EXCAVATION. THE BOTTOM OF EXCAVATION SHALL BE THE TOP OF BEDROCK OR THE TOP OF CLAY, WHICHEVER IS HIGHER, AND AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOT EXCAVATE MORE THAN 1 FOOT BELOW THE ELEVATIONS SHOWN ON THIS DRAWING WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
2. THE CONTRACTOR SHALL REMOVE ALL BURIED FOUNDATIONS, PIPES, STRUCTURES, ETC. THE CONTRACTOR SHALL REMOVE ALL VISIBLE COAL TAR.
3. PORTIONS OF THE EXCAVATION PERIMETER NOT SHOWN TO BE BRACED SHALL BE LAID BACK TO THE STEEPEST STABLE NATURAL SLOPE. △2
4. THE CONTRACTOR SHALL USE FOAM TO CONTROL ODORS AND VAPORS DURING EXCAVATION OF THE PORTION OF THE REQUIRED EXCAVATION AREA THAT CANNOT BE COVERED BY A TEMPORARY CONTAINMENT STRUCTURE. THIS IS REFERRED TO AS THE "INITIAL EXCAVATION AREA". ALL OTHER EXCAVATION SHALL BE PERFORMED BENEATH A TEMPORARY CONTAINMENT STRUCTURE (IN GENERAL LOCATION SHOWN ON DRAWINGS C-005 AND C-006) WITH A VAPOR MANAGEMENT SYSTEM.
5. THE LOCATION AND EXTENT OF THE INITIAL EXCAVATION AREA AND THE TEMPORARY CONTAINMENT STRUCTURE ARE SHOWN FOR BIDDING PURPOSES. THE CONTRACTOR MAY PROPOSE ALTERNATIVE LAYOUT AND EQUIPMENT SUBJECT TO THE REVIEW AND APPROVAL OF THE ENGINEER. THE EXTENT AND VOLUME OF THE INITIAL EXCAVATION AREA SHALL BE MINIMIZED.
6. THE ENGINEER WILL COMPARE THE RESULTS OF THE CONFIRMATION SAMPLING WITH THE REMEDIAL ACTION OBJECTIVES FOR THE PROJECT (NO VISUAL EVIDENCE OF COAL TAR, LESS THAN 500 ppm TOTAL PETROLEUM HYDROCARBONS) TO DETERMINE IF ADDITIONAL EXCAVATION AND CONFIRMATION SAMPLING IS REQUIRED. THE CONTRACTOR SHALL PERFORM SUCH ADDITIONAL EXCAVATION, SAMPLING, AND ANALYSIS AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL PLACE A GEOTEXTILE DEMARCATION BARRIER OVER ANY SOILS, AS DETERMINED BY THE ENGINEER, WHOSE CONFIRMATION/DOCUMENTATION SAMPLES DO NOT MEET 6 NYCRR PART 375 RESTRICTED RESIDENTIAL STANDARDS. △2

DRAWING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
3	LSP	DJD	01/05/16	RECORD DRAWINGS
2	ELB	RW	01/23/18	??
1	ELB	RW	10/09/15	REVISED IN ACCORDANCE WITH RFI 12
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

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PUTNAM COUNTY
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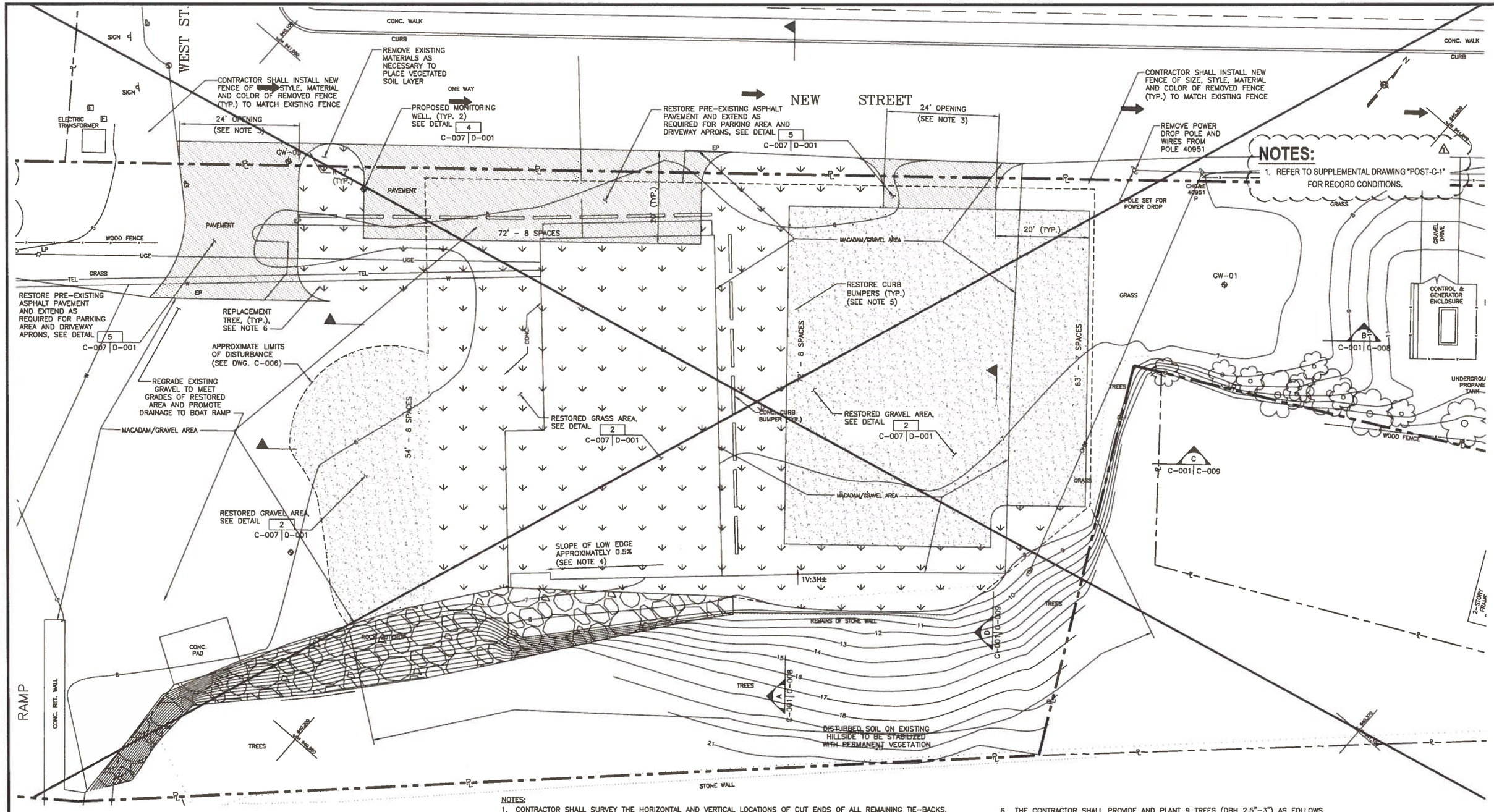
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXCAVATION PLAN

Scale: AS SHOWN | Date: MAY 2015 | **C-006**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\CADD Design Drawings\Revised Drawing C-006 - 11-30-2016\CONTRACT DRAWING C-006 - EXCAVATION REV-2(C-006 - EXCAVATION REV-2.dwg, C-006, 1:1, 12/9/2016, 1-ELB



NOTES:

1. REFER TO SUPPLEMENTAL DRAWING "POST-C-1" FOR RECORD CONDITIONS.

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

NOTES:

1. CONTRACTOR SHALL SURVEY THE HORIZONTAL AND VERTICAL LOCATIONS OF CUT ENDS OF ALL REMAINING TIE-BACKS.
2. APPROXIMATE RESTORATION GRADES SHOWN. CONTRACTOR SHALL GRADE TOP OF RESTORED AREA UNIFORMLY TO DRAIN, AND MATCH SURROUNDING GRADES AT THE PERIMETER OF THE RESTORED AREA.
3. CONTRACTOR SHALL LOCATE OPENINGS IN THE SAME LOCATION OF THOSE OF THE REMOVED FENCE SO AS TO RESTORE PRE-CONSTRUCTION TRAFFIC PATTERNS.
4. CONTRACTOR SHALL GRADE RESTORED AREA AND EXISTING GRAVEL SURFACE UNIFORMLY TO LOW EDGE, TO PROMOTE DRAINAGE ALONG SOUTHERLY BOUNDARY TO THE BOAT RAMP AS PRACTICABLE.
5. SIGNS AND CURB BUMPERS REMOVED DURING DEMOLITION SHALL BE RESTORED AS DIRECTED.
6. THE CONTRACTOR SHALL PROVIDE AND PLANT 9 TREES (DBH 2.5"-3") AS FOLLOWS
   - TWO (2) BALD CYPRESS (TAXODIUM DISTICHUM)
   - ONE (1) SWAMP WHITE OAK (QUERCUS BICOLOR)
   - SIX (6) SERVICEBERRY (AMELANCHIER) 'AUTUMN BRILLIANCE'

   LOCATIONS SHOWN ON THIS DRAWING CONCEPTUALLY - TO BE FINALIZED DURING RESTORATION.

10' 0 10'
SCALE IN FEET

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

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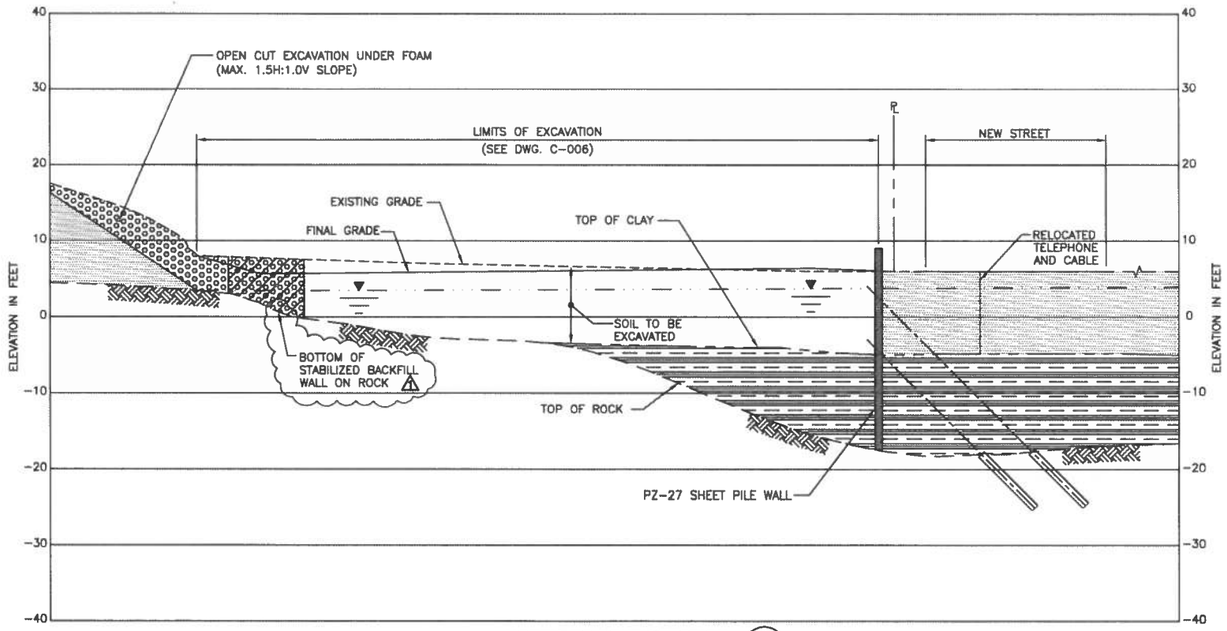
PUTNAM COUNTY
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

RESTORATION PLAN

Scale: AS SHOWN | Date: MAY 2015 | **C-007**

J:\V01 Projects\180001\150027-00 NY Former MGP Site\12.0 Working Files\12.4 AS-BUILTS\DRAWINGS\C-007 -RESTORATION.dwg, C-007, 1:1, 12/28/2016, 1-ELB



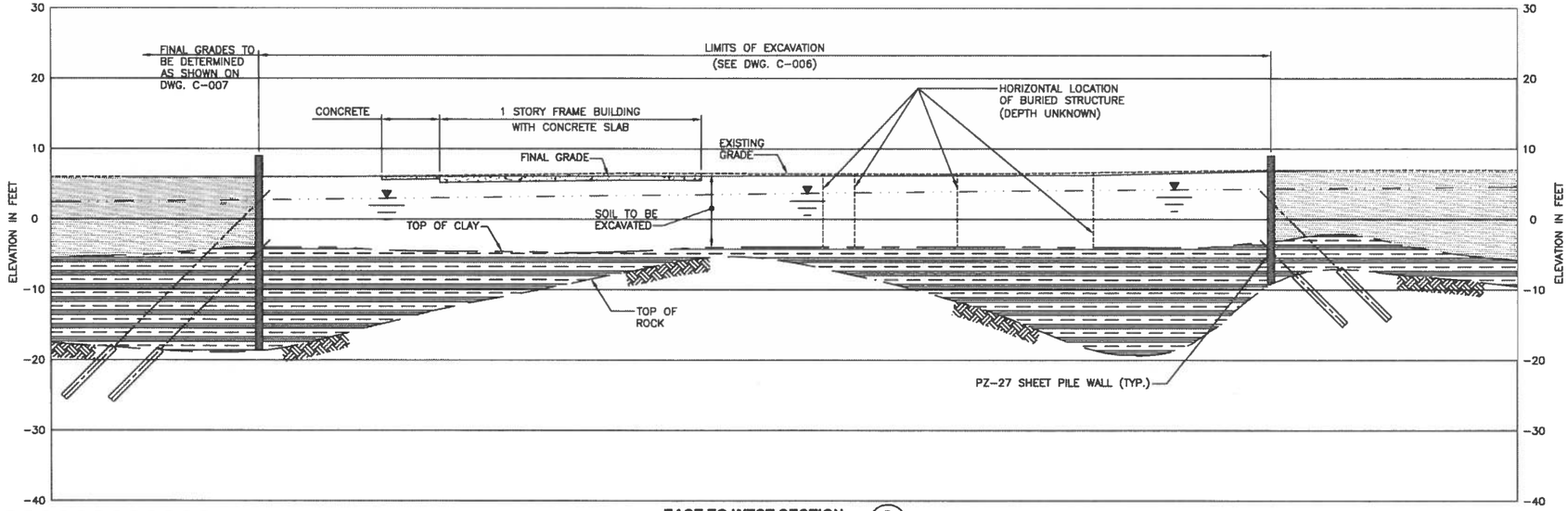
NORTH TO SOUTH SECTION (A) C-001 | C-008

10' 0 10'

SCALE IN FEET
HORIZ. & VERT.

NOTES:

1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO SUPPLEMENTAL DRAWINGS "EXCA-C-1" AND "POST-C-1" FOR RECORD CONDITIONS.



EAST TO WEST SECTION (B) C-001 | C-008

10' 0 10'

SCALE IN FEET
HORIZ. & VERT.

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	LSP	DJD	10/16	RECORD DRAWING MODIFICATION
1	ELB	RW	09/23/15	ADDED BOTTOM OF STABILIZED BACKFILL WALL LABEL
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

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JOB NO. 11176853

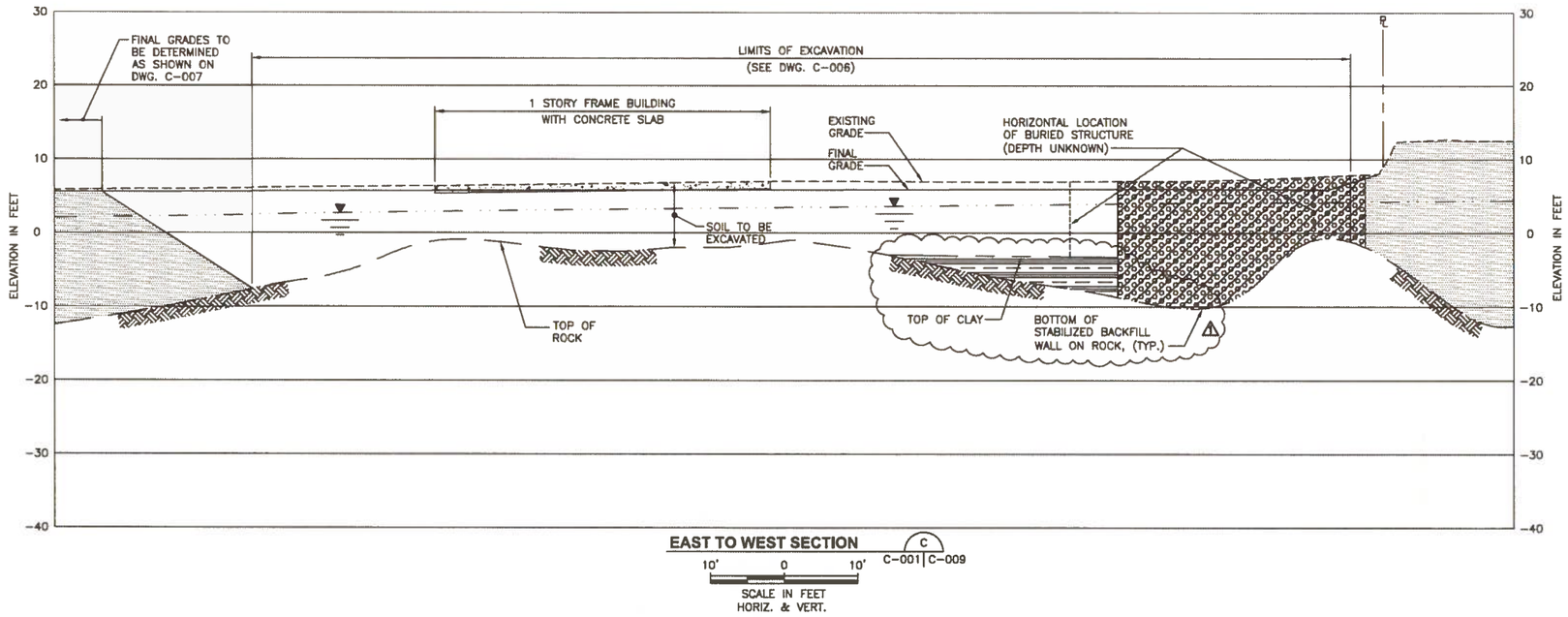
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

SECTIONS

Scale: AS SHOWN | Date: MAY 2015 | **C-008**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DWG\MXD\C-008 - SECTIONS REV-1.dwg, C-008, 1:1, 1/9/2017, 1-ELB

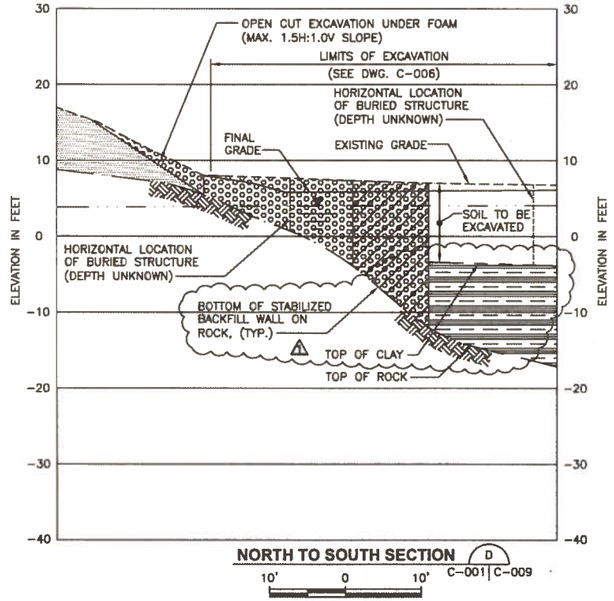


EAST TO WEST SECTION C

C-001 | C-009

10' 0 10'

SCALE IN FEET
HORIZ. & VERT.



NORTH TO SOUTH SECTION D

C-001 | C-009

10' 0 10'

SCALE IN FEET
HORIZ. & VERT.

NOTES:

1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO SUPPLEMENTAL DRAWINGS "EXCA-C-1" AND "POST-C-1" FOR RECORD CONDITIONS.

LEGEND

- EXISTING SOILS
- CLAY
- TOP OF BEDROCK
- GROUNDWATER SURFACE ELEVATION (11/19/08)
- INITIAL EXCAVATION AREA
- INITIAL EXCAVATION AREA WITH STABILIZED BACKFILL

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	LSP	DJD	10/16	RECORD DRAWING MODIFICATION
1	ELB	RW	09/23/15	REVISED BOTTOM OF EXCAVATION SHOWN
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: RW
DRAWN BY: ELB
CHECKED BY: CWP
PROJ. ENGR. RW

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JOB NO. 11176853

STATE OF NEW YORK — DAVID JOHN DICESARE — LICENSED PROFESSIONAL ENGINEER

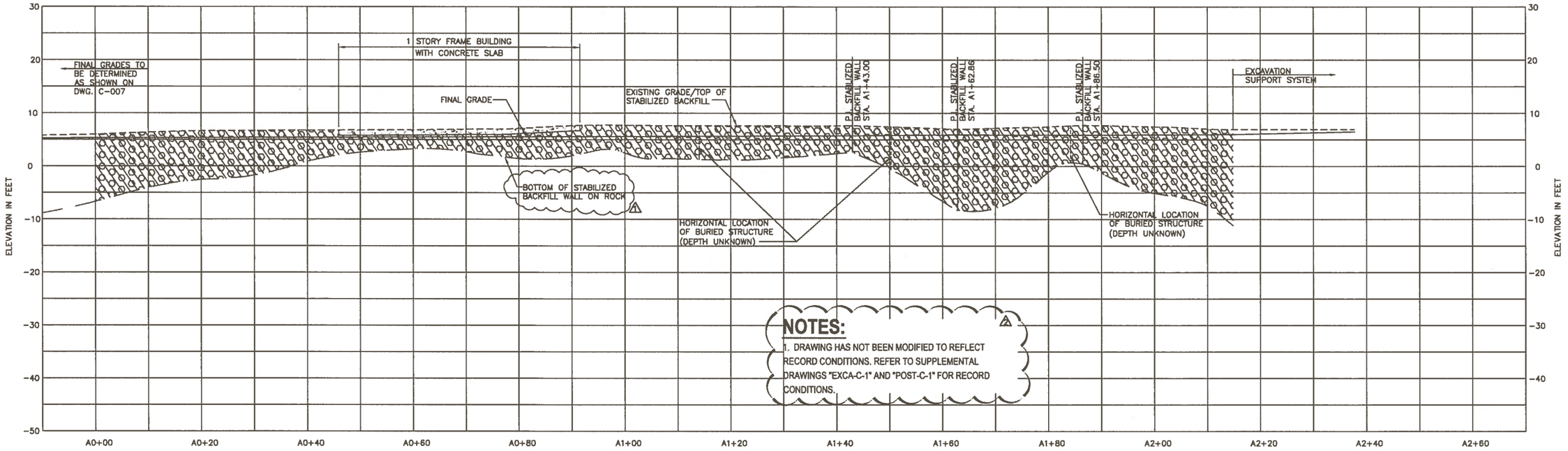
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

SECTIONS

Scale: AS SHOWN | Date: MAY 2015 | **C-009**

J:\01 Projects\150000\150027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-009 - SECTIONS REV-1.dwg, C-009, 11:, 1/9/2017, 1:-ELB



NOTES:

1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO SUPPLEMENTAL DRAWINGS "EXCA-C-1" AND "POST-C-1" FOR RECORD CONDITIONS.

LEGEND

INITIAL EXCAVATION AREA WITH STABILIZED BACKFILL

10' 0 10'
SCALE IN FEET
HORIZ. & VERT.

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	LSP	DJD	01/05/16	RECORD DRAWING MODIFICATION
1	ELB	RW	09/23/15	REVISED BOTTOM OF STABILIZED BACKFILL WALL LABEL
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: ___
DRAWN BY: ELB
CHECKED BY: ___
PROJ. ENGR. RW

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STATE OF NEW YORK · DAVID JOHN DICESARE · PROFESSIONAL ENGINEER

PUTNAM COUNTY
COLD SPRING
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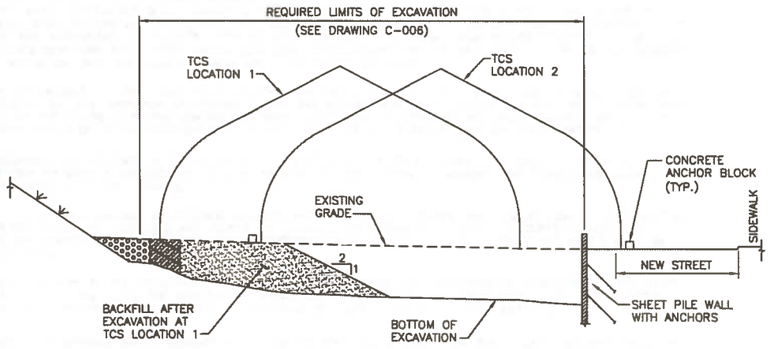
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

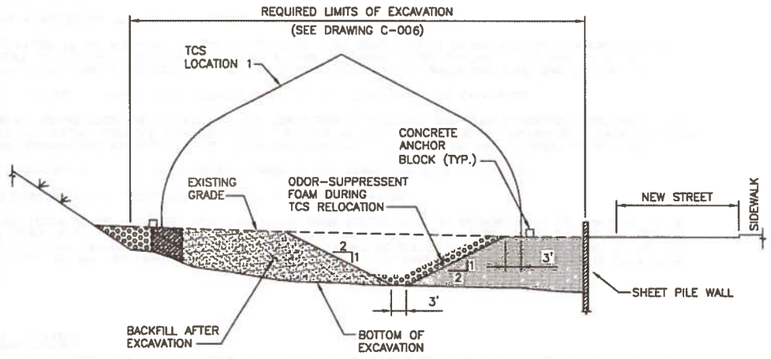
STABILIZED BACKFILL WALL PROFILE ALONG CENTERLINE

Scale: AS SHOWN | Date: MAY 2015 | **C-010**

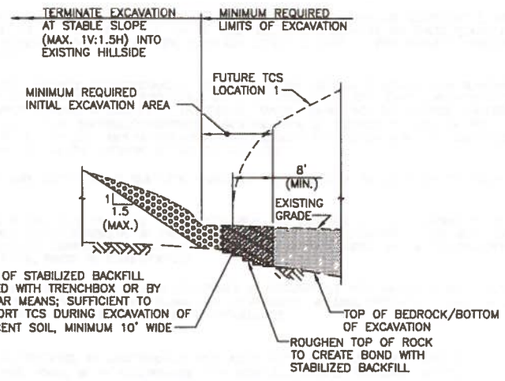
J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\C-010 - STABILIZED BACKFILL PROFILE C-010 REV-1.dwg, C-010, 1:1, 12/28/2016, 1-ELB



TEMPORARY CONTAINMENT SYSTEM LOCATION 2

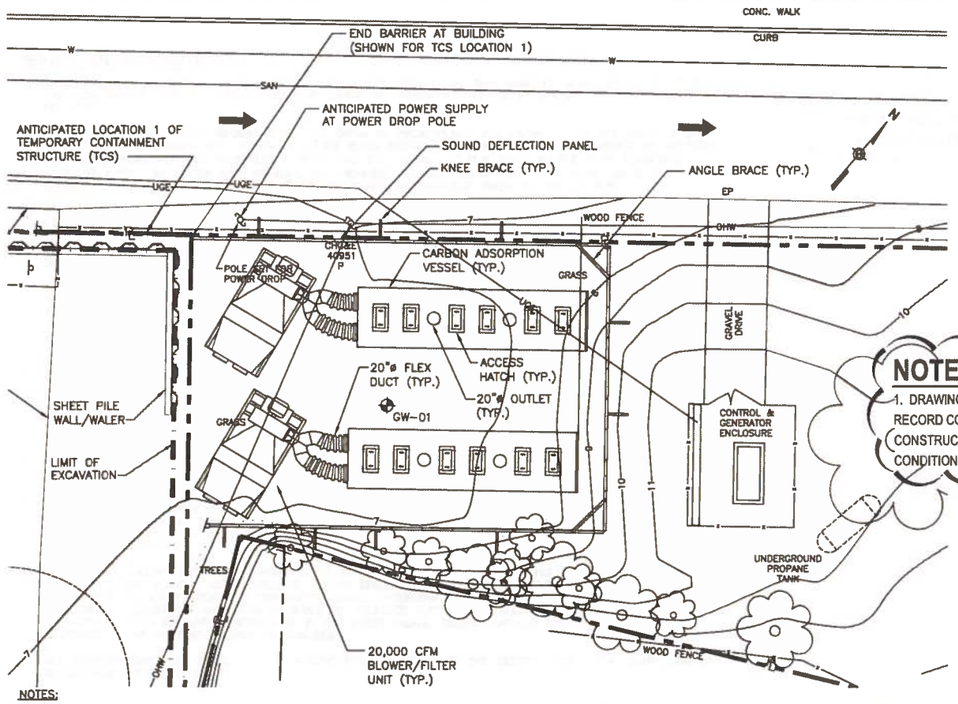


TEMPORARY CONTAINMENT SYSTEM LOCATION 1



INITIAL EXCAVATION

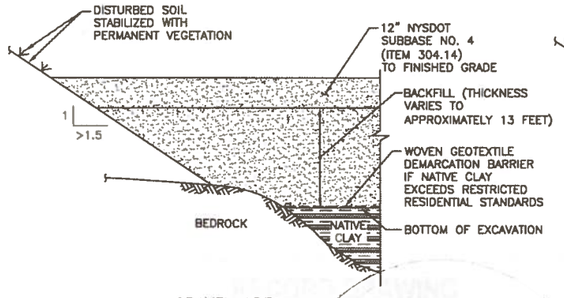
CONCEPTUAL TEMPORARY CONTAINMENT SYSTEM LAYOUT DETAIL 1
NOT TO SCALE C-005 | D-001



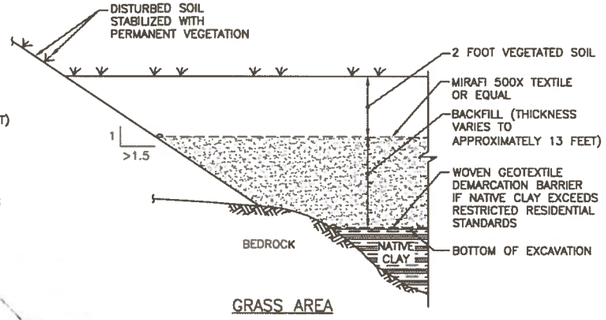
NOTES:
1. VAPOR MANAGEMENT SYSTEM SHOWN IS BASED UPON USE OF TWO 20,000 CFM UNITS PROVIDED BY TIGG CORPORATION. OTHER SYSTEMS THAT MEET THE PROJECT SPECIFICATIONS WILL BE ACCEPTABLE.
2. NOISE BARRIER SYSTEM IS SHOWN CONCEPTUALLY FOR TCS IN LOCATION 1 AS SHOWN ON C-005. THE LAYOUT AND DESIGN SHALL BE MODIFIED AS NECESSARY FOR ALL TCS LOCATIONS TO MEET THE REQUIREMENTS OF CHAPTER 76 OF THE VILLAGE OF COLD SPRING, NEW YORK, AND AS APPROVED BY ENGINEER.
3. OFFSITE CLEAN FILL IS NOT SHOWN, BUT MAY BE REQUIRED BENEATH THE VMS COMPONENTS TO PROVIDE A LEVEL SURFACE. THE CONTRACTOR SHALL NOT CUT INTO EXISTING GRADE IN THIS AREA.
4. SEE DRAWING C-005 FOR GENERAL LOCATION.

VAPOR MANAGEMENT SYSTEM ENLARGED PLAN
10' 0 10'
SCALE IN FEET

RECORD DRAWING ⚠
IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

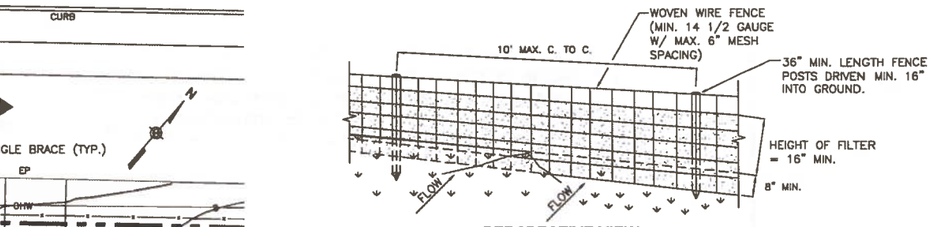


GRAVEL AREA

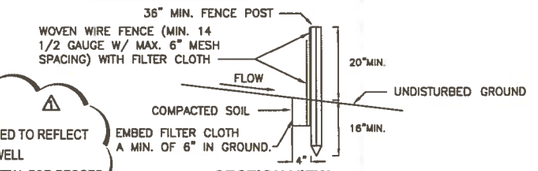


GRASS AREA

TYPICAL RESTORATION PROFILE 2
NOT TO SCALE C-007 | D-001



PERSPECTIVE VIEW



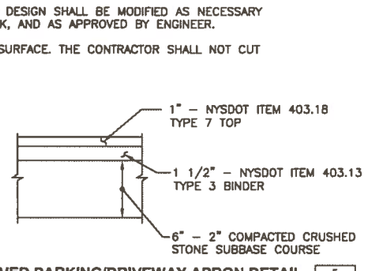
SECTION VIEW

NOTES: ⚠
1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO "WELL CONSTRUCTION DIAGRAMS" SUBMITTAL FOR RECORD CONDITIONS OF MONITORING WELLS.

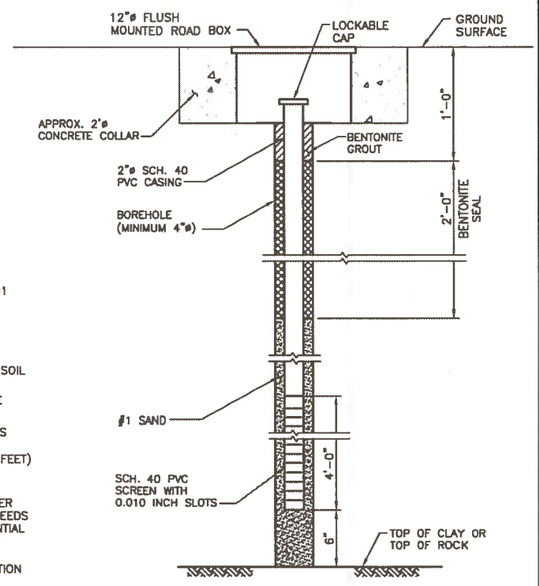
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL 3
NOT TO SCALE C-005 | D-001



PAVED PARKING/DRIVEWAY APRON DETAIL 5
NOT TO SCALE C-007 | D-001



MONITORING WELL DETAIL 4
NOT TO SCALE C-007 | D-001

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

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PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

DETAILS

Scale: AS SHOWN | Date: MAY 2015 | **D-001**

STATE OF NEW YORK
DAVID JOHN DICESARE
LICENSED PROFESSIONAL ENGINEER

G:\01 Projects\15XXX\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\D-001 - DETAILS.dwg, D-001, 1:1, 12/28/2016, 1-ELB

EXCAVATION SUPPORT SYSTEM GENERAL NOTES

1. PRIOR TO COMMENCING WORK CONTRACTOR SHALL SUBMIT TO ENGINEER A DETAILED WORK PLAN FOR CONSTRUCTION OF THE SHEET PILING WALL. THE PLAN SHALL OUTLINE ALL PROCEDURES AND SEQUENCES TO BE USED TO INSTALL SHEETING, AND CONSTRUCT, TEST, AND FINISH TIEBACKS AND ANCHORAGE COMPONENTS. PER SPECIFICATION 02226, THE PLAN SHALL INCLUDE STAMPED AND SEALED (BY CURRENTLY LICENSED NEW YORK STATE PROFESSIONAL ENGINEER) CALCULATIONS AND DRAWINGS FOR ALL CONTRACTOR-DESIGNED ITEMS. WORK SHALL NOT BEGIN UNTIL THE PLAN HAS BEEN APPROVED BY THE ENGINEER.

2. THE CONTRACTOR IS RESPONSIBLE FOR PRE- AND POST-CONSTRUCTION PHOTO DOCUMENTATION OF ALL EXISTING STRUCTURES ON PROPERTIES ADJACENT TO THE SITE. VIBRATION MONITORING DURING THE INSTALLATION OF THE SHEET PILE WALL AND ANCHORS SHALL ALSO BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL SELECT THE LOCATION OF VIBRATION MONITORS AND INDICATE THEM ON A PLAN VIEW, SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF PILE DRIVING ACTIVITIES.

3. LOCATE, PROTECT/BULKHEAD ALL UTILITIES TO REMAIN PRIOR TO CONSTRUCTION OF SHEET PILING. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE DISTURBANCE TO SURROUNDING UTILITIES, ASPHALT PAVEMENT, AND STRUCTURES DURING THE INSTALLATION OF THE SHEET PILES AND TIEBACKS.

4. CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER SITE FEATURES THAT ARE TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND INSTALLING ANY TEMPORARY SHORING, UNDERPINNING, OR OTHER FEATURES TO MEET THIS PURPOSE. REMOVAL OR MODIFICATION OF SITE FEATURES NOT SPECIFICALLY CALLED OUT IN THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE ENGINEER.

5. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND STATE OF NEW YORK REGULATIONS AT ALL TIMES. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE PREVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, INCLUDING BUT NOT LIMITED TO 29 CFR PART 1926.

6. SITE-SPECIFIC GEOTECHNICAL INFORMATION IS PROVIDED IN THE LIMITED SITE DATA DOCUMENT OF THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL USE ALL PROVIDED GEOTECHNICAL INFORMATION AT HIS OWN RISK AND SHALL VERIFY ALL INFORMATION THAT IS PERTINENT TO EARTHWORK, DEWATERING, AND CONSTRUCTION OF THE SHEET PILING WALL AND ANCHORS.

7. BIDDERS MAY ELECT TO MAKE THEIR OWN SITE VISIT FOLLOWING THE PRE-BID MEETING AND PRIOR TO BIDDING TO CONFIRM EXISTING CONDITIONS. THE BIDDER SHALL NOTIFY THE DEPARTMENT IN WRITING OF ANY CONDITIONS THAT DIFFER FROM THE PLANS.

EXCAVATION SUPPORT SYSTEM - CONSTRUCTION SEQUENCE

CONSTRUCTION OF EXCAVATION SUPPORT SYSTEM AND MASS EXCAVATION WITHIN THE BOUNDARIES OF THE SYSTEM SHALL BE PERFORMED IN A CONTROLLED SEQUENCE, AS FOLLOWS:

1. INSTALL SHEET PILING ALONG ENTIRE ALIGNMENT OF SUPPORT SYSTEM.

2. ADVANCE MASS EXCAVATION TO THE ELEVATION OF THE UPPER WALER. THEN TEMPORARILY SUSPEND MASS EXCAVATION ACTIVITIES AND DRILL AND INSTALL TIEBACKS WITH EQUIPMENT POSITIONED AT THIS ELEVATION. AFTER DRILLING OF TIEBACKS, PERFORM LOCALIZED, INDIVIDUAL EXCAVATIONS AS NECESSARY TO ALLOW CONSTRUCTION OF UPPER WALER AND STRESSING OF TIEBACKS.

3. INSTALL, TEST, AND LOCK-OFF ALL UPPER WALER TIEBACKS PRIOR TO CONTINUING WITH MASS EXCAVATION.

4. WHEN THE MASS EXCAVATION REACHES THE ELEVATION OF THE LOWER ROW OF TIEBACKS, TEMPORARILY SUSPEND MASS EXCAVATION ACTIVITIES AND DRILL AND INSTALL TIEBACKS WITH EQUIPMENT POSITIONED AT THIS ELEVATION. AFTER DRILLING OF TIEBACKS, PERFORM LOCALIZED, INDIVIDUAL EXCAVATIONS AS NECESSARY TO ALLOW CONSTRUCTION OF LOWER WALER AND STRESSING OF TIEBACKS.

5. INSTALL, TEST, AND LOCK-OFF ALL UPPER WALER TIEBACKS PRIOR TO CONTINUING WITH MASS EXCAVATION.

6. MASS EXCAVATE TO FINAL DEPTHS AS PRESCRIBED IN THE PLANS AND SPECIFICATIONS.

7. NO EXCAVATION SHALL OCCUR BEHIND THE SHEET PILING, AS SHOWN FROM STATION 0+00 TO APPROXIMATELY STATION 0+20, UNTIL ALL EXCAVATION IN FRONT OF THE SHEET PILING IS COMPLETED. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE TIEBACKS THAT WILL BE EXPOSED DURING EXCAVATION BEHIND THE WALL. BACKFILL SHALL BE PLACED SIMULTANEOUSLY IN FRONT OF AND BEHIND ANY PORTIONS OF THE WALL SO EXPOSED WITH NO GREATER THAN 1 FT. DIFFERENCE BETWEEN THE HEIGHTS OF BACKFILL AT ANY TIME.

SHEET PILING WALL NOTES

1. CONTRACTOR SHALL PERFORM TEST TRENCH EXCAVATIONS TO A DEPTH OF AT LEAST 6 FT ACROSS ENTIRE LENGTH OF SHEET PILE ALIGNMENT AHEAD OF PILE DRIVING. THIS IS TO IDENTIFY ANY SHALLOW OBSTRUCTIONS. IDENTIFIED OBSTRUCTIONS SHALL BE REMOVED PRIOR TO MOBILIZING PILE DRIVING EQUIPMENT. SPOILS SHALL BE CONTAINERIZED AND COVERED WITH TARPS AND/OR FOAMS TO PREVENT ESCAPE OF SEDIMENTS OR ODORS, AND SHALL BE DISPOSED OF WITH OTHER EXCAVATED SOILS.

2. ALL SHEET PILING SHALL BE DRIVEN TO ABSOLUTE REFUSAL ON BEDROCK. THE CONTRACTOR SHALL MOBILIZE SUFFICIENT EQUIPMENT AND MATERIALS TO MEET THIS REQUIREMENT AT ALL LOCATIONS. THE TOP OF ROCK ELEVATIONS DEPICTED ON THESE PLANS ARE APPROXIMATE AND HAVE BEEN ESTIMATED BASED ON THE SITE-SPECIFIC DATA COLLECTED AS PART OF THIS PROJECT. VARIATIONS IN THE SOIL-BEDROCK INTERFACE ARE POSSIBLE.

3. THE EXCAVATION SUPPORT SYSTEM HAS BEEN DESIGNED TO WITHSTAND A 500 PSF UNIFORM VERTICAL CONSTRUCTION SURCHARGE ACTING NO CLOSER THAN 10 FT FROM THE FRONT FACE OF THE SHEET PILE WALL, IN CONJUNCTION WITH EARTH, HYDROSTATIC, AND CONTAINMENT STRUCTURE LOADS. SURCHARGE LOADING IN EXCESS OF THE DESIGN LOADING SHALL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ADDITIONAL SHORING/STRENTHENING/MODIFICATION OF SUPPORT SYSTEM MAY BE NECESSARY IF LARGER SURCHARGES ARE TO BE APPLIED. ANY MODIFICATIONS TO THE SUPPORT SYSTEM SHALL BE SUBMITTED FOR THE APPROVAL OF THE ENGINEER AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

4. SOIL STOCKPILES, CONTRACTOR EQUIPMENT AND CONSTRUCTION SUPPLIES, SHALL NOT BE STORED WITHIN 20 FT OF THE FACE OF THE SHEET PILE WALL.

5. IF SPLICES IN SHEET PILING ARE REQUIRED DURING CONSTRUCTION, THE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR TO TRANSFER THE ENTIRE AXIAL, FLEXURAL, AND SHEAR STRENGTH OF THE SECTION FROM ONE SHEET SEGMENT TO THE NEXT. DESIGN OF SPLICES SHALL BE BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK. DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING.

6. WELDING: PREPARATION OF BASE METAL PRIOR TO WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.1. ALL WELDING SHALL BE DONE BY THE SHEILDED METAL ARC WELDING (SMAW) PROCESS. WELDING OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARD QUALIFICATION PROCEDURES.

7. STRUCTURAL STEEL
   - 7.1. ALL SHEET PILES SHALL BE HOT-ROLLED SECTIONS, IN CONFORMANCE WITH ASTM A572 GRADE 50 - YIELD STRENGTH 50,000 PSI
   - 7.2. WALER SHAPES, BARS, AND PLATES: STEEL SHALL BE IN ACCORDANCE WITH ASTM A36, UNLESS OTHERWISE NOTED.

TIEBACK ANCHOR NOTES

1. TIEBACKS SHALL BE BAR ANCHORS, MEETING ASTM A 722, GRADE 150. BAR DIAMETER SHALL BE SELECTED BY THE CONTRACTOR, BUT SHALL BE AT LEAST AS LARGE AS SHOWN IN THE PLANS TO MEET THE DESIGN LOADS PROVIDED.

2. TIEBACK UNBONDED LENGTH REQUIREMENTS ARE GIVEN IN THESE PLANS. ALL TIEBACKS FOR THE SHEET PILING WALL SHALL BE PROVIDED WITH A PVC OR OTHER BOND BREAKING SHEATHING FILLED WITH GREASE AS DEFINED IN "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS," PUBLISHED BY THE POST TENSIONING INSTITUTE (PTI). SELECTION AND DETAILING OF ANCHORS AND CORROSION PROTECTION SHALL BE BY CONTRACTOR. TIEBACK DETAILS SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE ON SITE.

3. SPOILS FROM THE TIEBACK INSTALLATION SHALL BE HANDLED IN THE SAME WAY AS ARE SOILS FROM THE EXCAVATIONS.

4. TIEBACK DESIGN LOADS (DL) VARY ALONG THE ALIGNMENT OF THE WALL. DESIGN LOADS ARE INDICATED ON DRAWING ES-003.

5. THE TIEBACK BONDED LENGTH SHALL BE DESIGNED BY THE CONTRACTOR TO ACHIEVE THE DESIGN LOADS, TESTING AND OTHER REQUIREMENTS GIVEN IN THESE PLANS AND SPECIFICATIONS. THE ANCHOR BOND ZONE SHALL EXTEND A MINIMUM OF 10 FEET INTO ROCK. ALL ANCHOR BOND ZONES SHALL REMAIN WITHIN THE NEW STREET RIGHT-OF-WAY AND NOT ENCROACH ONTO PRIVATE PROPERTY BEYOND. ALL CONTRACTOR-DESIGNED ANCHORAGE FEATURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

6. TIEBACK LOCATIONS (VERTICALLY) AND TIEBACK INCLINATION SHALL BE AS PRESCRIBED IN THESE PLANS. THE NUMBER OF TIEBACKS (LATERALLY) OVER A GIVEN LENGTH OF THE WALL SYSTEM SHALL ALSO BE AS PRESCRIBED IN THESE PLANS. THE SPECIFIC LOCATION OF TIEBACKS MAY BE SELECTED BY THE CONTRACTOR TO SUIT HIS/HER MEANS AND METHODS. HOWEVER, TIEBACKS SHALL BE POSITIONED SUCH THAT THE LENGTH OF WALER CANTILEVERING BEYOND LAST TIEBACK DOES NOT EXCEED 6 FT. TIEBACK SPACING ALONG THE ALIGNMENT OF THE WALL SHALL NOT BE GREATER THAN 12 FT. ON CENTER.

7. THE CONTRACTOR SHALL IMPLEMENT PROOF TESTING, PERFORMANCE TESTING, AND CREEP TESTING OF FINISHED TIEBACKS. SEE SPECIFICATIONS FOR THE TEST REQUIREMENTS.

8. OBSTRUCTIONS MAY BE ENCOUNTERED DURING TIEBACK DRILLING - FOR EXAMPLE, EXISTING BURIED STRUCTURE FOUNDATIONS FROM PREVIOUSLY DEMOLISHED BUILDINGS. WHEN OBSTRUCTIONS ARE ENCOUNTERED, CONTRACTOR SHALL STOP DRILLING AT THAT PARTICULAR LOCATION, AND CONSULT WITH THE ENGINEER. IF A HOLE IS TO BE ABANDONED, CONTRACTOR SHALL RELOCATE AND REPLACE THE ABANDONED TIEBACK WITH AN ANCHOR OF EQUAL OR GREATER CAPACITY.

9. DIRECTIONAL DRILLING FOR TIEBACK INSTALLATION SHALL BE PERFORMED TO THE ANGLES AND ORIENTATIONS SHOWN IN THESE PLANS. AUGER DRILLING, ROTARY DRILLING, OR PERCUSSION DRIVEN CASING MAY BE USED TO INSTALL THE TIEBACK SYSTEM. THE CONTRACTOR SHALL DETERMINE THE APPROPRIATE INSTALLATION METHODS. ADDITIONALLY, EQUIPMENT AND METHODS SHALL BE SELECTED SUCH THAT DRILLING CAN OCCUR THROUGH THE PRE-CONSTRUCTED ANCHOR PENETRATIONS IN THE SHEET PILING. TIEBACK ANCHOR ASSEMBLIES SHALL BE CENTERED IN THE BOREHOLE USING CENTRALIZERS.

10. ALL TIEBACKS SHALL BE LOCKED OFF AT A LOAD EQUAL TO 100% OF THE DESIGN LOAD, UPON COMPLETION OF SUCCESSFUL PROOF TESTING.

STABILIZED BACKFILL/FLOWABLE FILL NOTES

1. STABILIZED BACKFILL SHALL BE FLOWABLE FILL AND SHALL CONSIST OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) OR LIGHTWEIGHT CONCRETE FILL, CONFORMING TO THE REQUIREMENTS SPECIFIED BY NYSDOT STANDARD SPECIFICATIONS SECTION 733-01. FURTHERMORE, FLOWABLE FILL SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 150 PSI AT A 28-DAY CURING PERIOD. THE STRENGTH SHALL BE DOCUMENTED AND DEMONSTRATED BY THE SUPPLIER.

2. FLOWABLE FILL SHALL BE PLACED FROM THE TOP OF BEDROCK SURFACE TO EXISTING GRADE, AT ALL LOCATIONS WHERE STABILIZED BACKFILL IS INDICATED ON THE PLANS. THE BEDROCK SURFACE SHALL BE MECHANICALLY ROUGHENED OR BENCHED TO PROMOTE BONDING WITH THE FLOWABLE FILL.

3. A MINIMUM OF 28-DAYS SHALL HAVE ELAPSED FROM THE TIME THAT THE FLOWABLE FILL IS PLACED AND THE TIME THAT EXCAVATIONS IN FRONT OF THE STABILIZED BACKFILL ARE INITATED, AND A MINIMUM OF 14 DAYS SHALL HAVE ELAPSED SINCE THE TIME THAT FLOWABLE FILL IS PLACED AND THE TIME THAT THE VAPOR CONTAINMENT STRUCTURE IS CONSTRUCTED.

THIS DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD PROCEDURES. REFER TO "REVISED TIEBACK INSTALLATION DOCUMENTATION REPORT" FOR RECORD PROCEDURES. ⚠

RECORD DRAWING ⚠

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

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DRAWN BY: ELB
CHECKED BY: VG
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JOB NO. 11176853

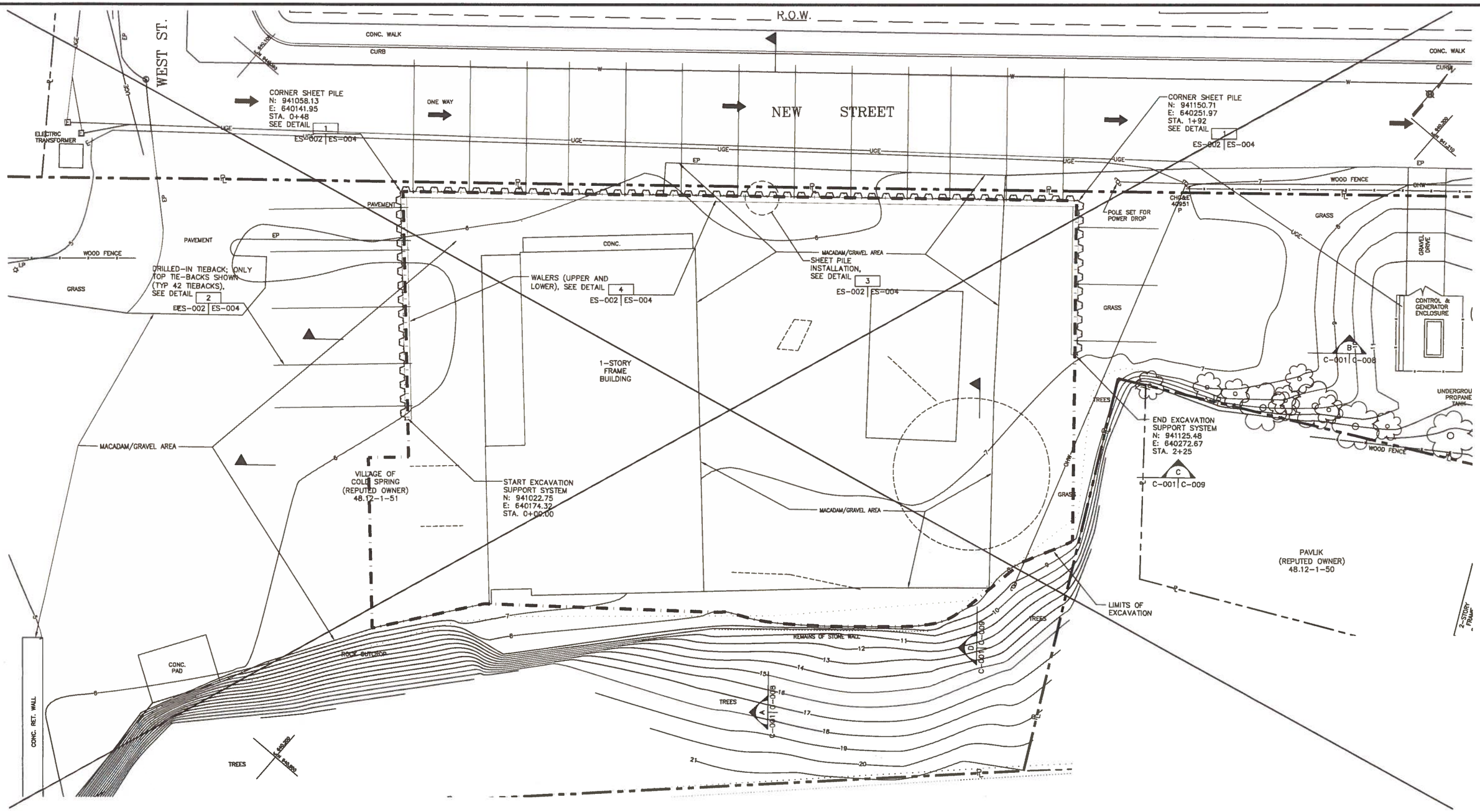
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXCAVATION SUPPORT SYSTEM NOTES

Scale: AS SHOWN | Date: MAY 2015 | **ES-001**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.4 AS-BUILTS\DRAWINGS\ES-001 - EXCAVATION SUPPORT NOTES.dwg 1=1 12/28/2016-1 ELB



RECORD DRAWING ⚠

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NOTES: ⚠

1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO SUPPLEMENTAL DRAWING "SHEET ES-003" FOR RECORD CONDITIONS.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	02/22/17	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

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CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

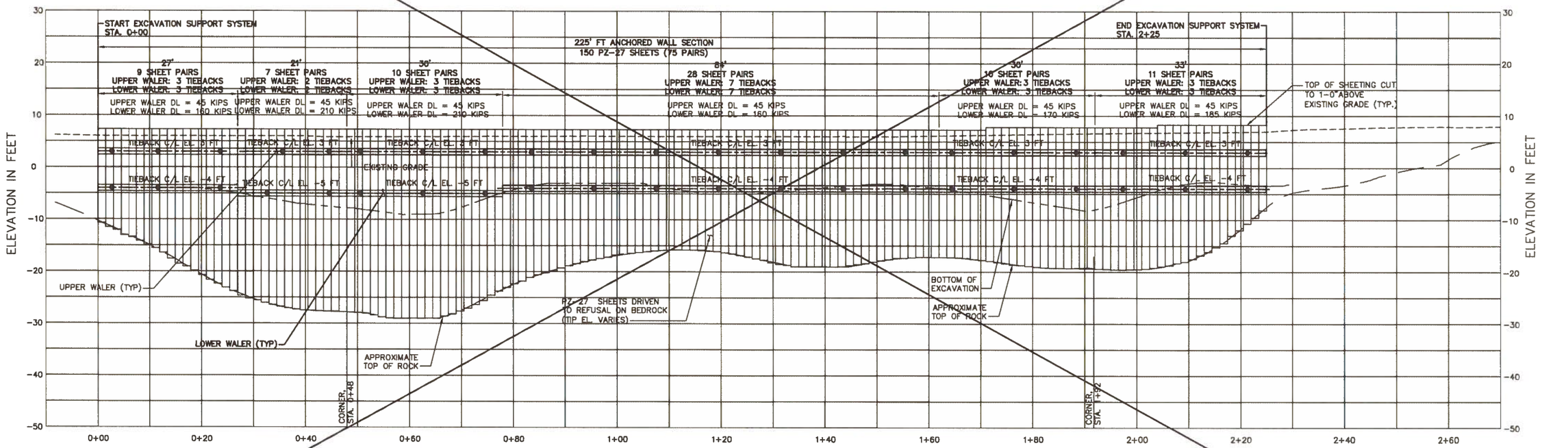
EXCAVATION SUPPORT SYSTEM PLAN

Scale: AS SHOWN | Date: MAY 2015 | **ES-002**

J:\01 Projects\15000\150027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\ES-002 - EXCAVATION SUPPORT PLAN.dwg, ES-002, 1:1, 12/9/2016, 1-RAL

NOTES:

1. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITIONS. REFER TO SUPPLEMENTAL DRAWING "SHEET-AB" FOR RECORD CONDITIONS.



SHEETING LENGTHS (SEE NOTE 3)																			
LENGTH OF SHEETING PAIRS (FT.)	18	19	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
No. OF PAIRS	1	2	1	1	3	6	10	8	11	10	1	2	1	2	1	2	5	4	4

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

NOTES:

1. LOCATION OF TIEBACKS SHOWN APPROXIMATELY. SEE DWG. ES-001 FOR CRITERIA FOR DETERMINING THE LOCATION OF TIEBACKS IN THE FIELD.
2. DETAILS OF CONSTRUCTION SHOWN ON DWG. ES-004.
3. THE QUANTITIES AND LENGTHS OF SHEETING HAVE BEEN APPROXIMATED FROM THIS DRAWING, AND INCLUDE A MINIMUM 1' STICKUP ABOVE EXISTING GRADE. LENGTHS OF PAIRS SHOWN HAVE BEEN ROUNDED UP TO THE NEXT WHOLE FOOT. THE CONTRACTOR SHALL MAKE HIS/HER OWN DETERMINATION OF THE LENGTHS OF SHEETING REQUIRED FOR THE PROJECT.

10' 0 10'
SCALE IN FEET
HORIZ. & VERT.

WARNING
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	02/22/17	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: KS
DRAWN BY: ELB
CHECKED BY: VG
PROJ. ENGR. RW

URS Corporation
New York
257 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176853

STATE OF NEW YORK · DAVID JOHN DICESARE · LICENSED PROFESSIONAL ENGINEER

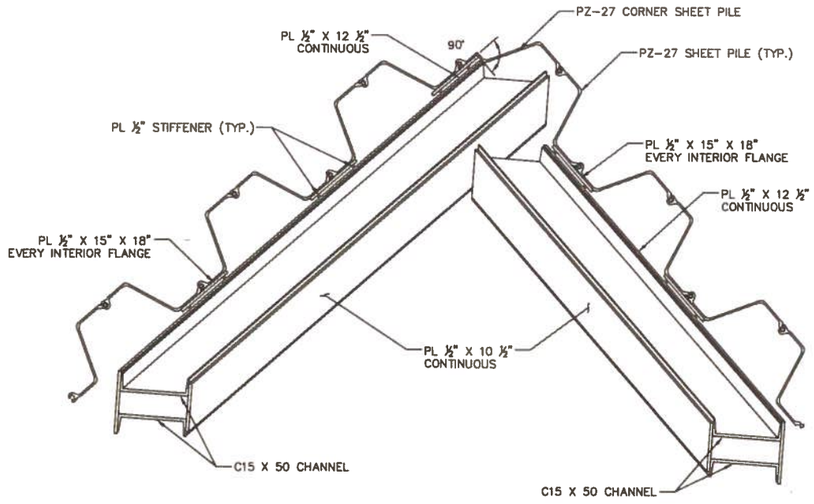
PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXCAVATION SUPPORT SYSTEM PROFILE

Scale: AS SHOWN | Date: MAY 2015 | **ES-003**

J:\01 Projects\15000\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\ES-003 - EXCAVATION SUPPORT PROFILE-100.dwg, ES-003, 1:1, 12/9/2016, 1-ELB

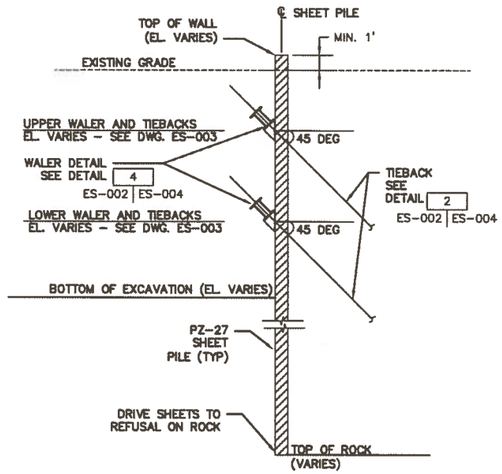


CORNER SHEETPILE DETAIL 1

NOT TO SCALE — ES-002 | ES-004

NOTE:

1. DETAIL APPLIES TO BOTH UPPER AND LOWER WALERS.

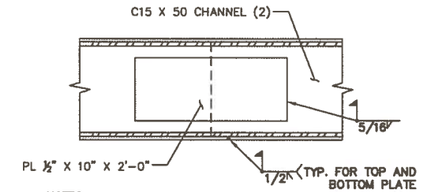


TYPICAL SHEETPILE INSTALLATION 3

5' 0' 5'

SCALE: 1"= 5'-0"

ES-002 | ES-004



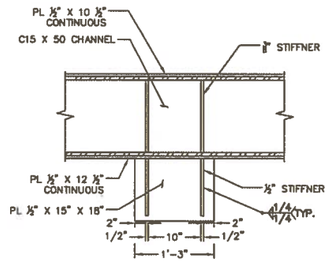
NOTES:

1. SPLICE TO OCCUR MID-SPAN BETWEEN TIEBACKS.

TYPICAL CHANNEL SPLICE DETAIL

1' 0 1'

SCALE IN FEET HORIZ. & VERT.



SECTION A

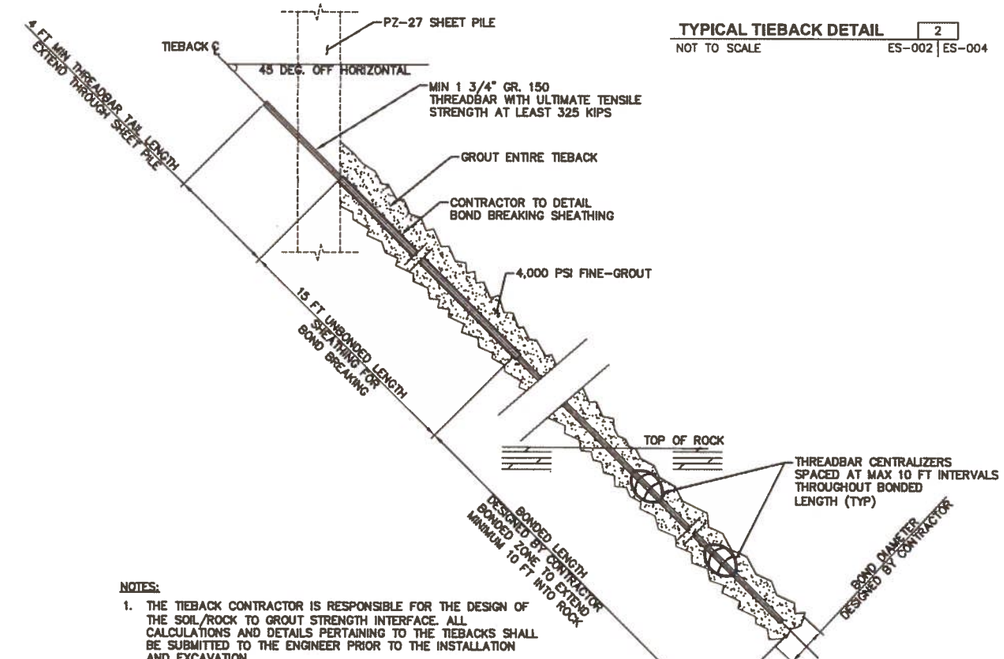
1' 0 1'

SCALE IN FEET HORIZ. & VERT.

ES-004 | ES-004

NOTE:

1. BEARING PLATE, NUT AND WASHER NOT SHOWN.

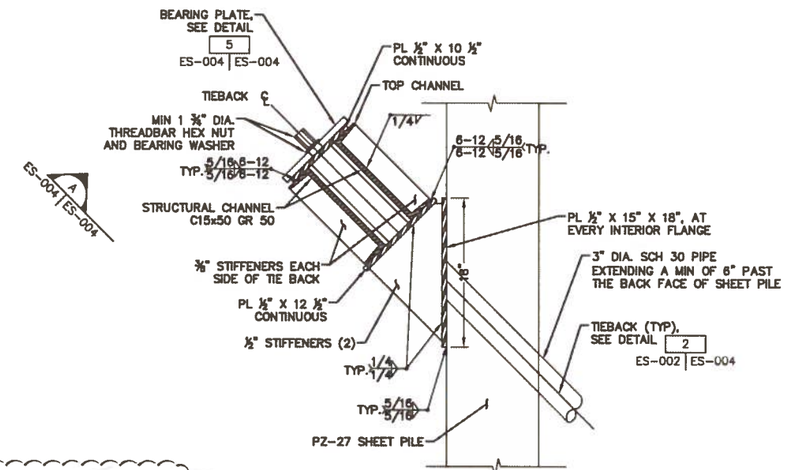


TYPICAL TIEBACK DETAIL 2

NOT TO SCALE — ES-002 | ES-004

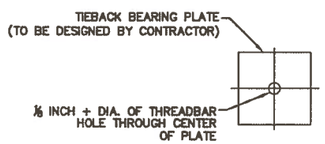
NOTES:

1. THE TIEBACK CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE SOIL/ROCK TO GROUT STRENGTH INTERFACE. ALL CALCULATIONS AND DETAILS PERTAINING TO THE TIEBACKS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE INSTALLATION AND EXCAVATION.
2. TIEBACKS DESIGN LOADS (DL) VARY ALONG THE ALIGNMENT OF THE WALL. DESIGN LOADS ARE INDICATED ON DRAWING ES-003.
3. DRAWING HAS NOT BEEN MODIFIED TO REFLECT RECORD CONDITION, REFER TO "REVISED TIEBACK INSTALLATION DOCUMENTATION REPORT" SUBMITTAL FOR RECORD CONDITIONS OF TYPICAL TIEBACK DETAIL. ⚠



TYPICAL WALER DETAIL 4

NOT TO SCALE — ES-002 | ES-004



TYPICAL BEARING PLATE DETAIL 5

NOT TO SCALE — ES-004 | ES-004

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION" CLOUD & ⚠" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

WARNING: IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	LSP	DJD	01/05/16	RECORD DRAWING
0	ELB	RW	05/18/15	ISSUED FOR BID

REVISIONS

DESIGNED BY: KS
DRAWN BY: ELB
CHECKED BY: VG
PROJ. ENGR. RW

URS Corporation
New York
257 West Genesee Street, Suite 400, Buffalo, New York 14202
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176853

PUTNAM COUNTY
COLD SPRING
FORMER MGP SITE
NYS REGISTRY NO: 340026
CONTRACT D009635
VILLAGE OF COLD SPRING STATE OF NEW YORK

REMEDIAL ACTION

EXCAVATION SUPPORT SYSTEM DETAILS

Scale: AS SHOWN | Date: MAY 2015 | **ES-004**

J:\01 Projects\15300\15027-00 NY Former MGP Site\12.0 Working File\12.4 AS-BUILTS\DRAWINGS\ES-004 - EXCAVATION SUPPORT DETAILS-100.dwg, ES-004, 12/28/2016, 1-ELB

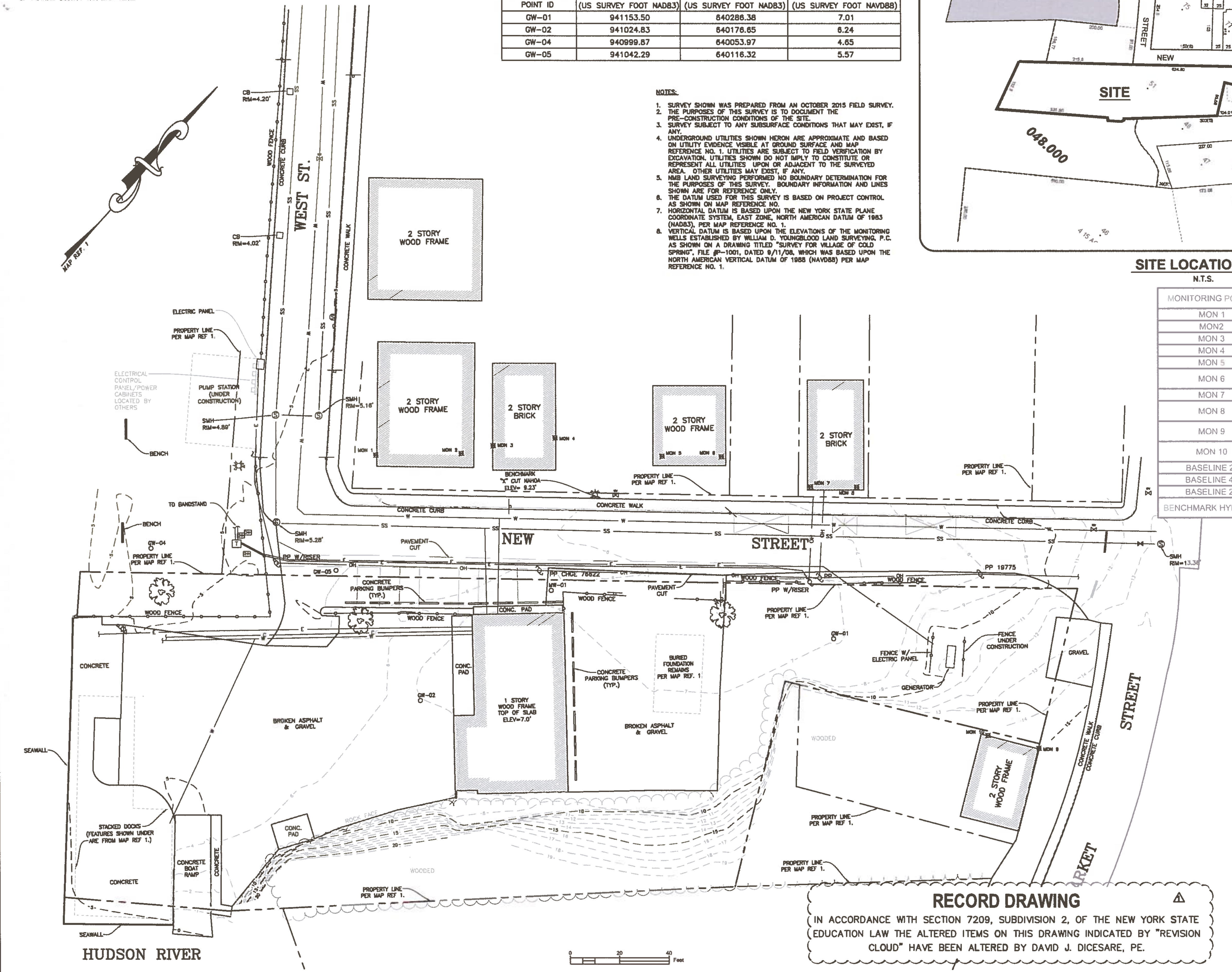
MAP REFERENCE:

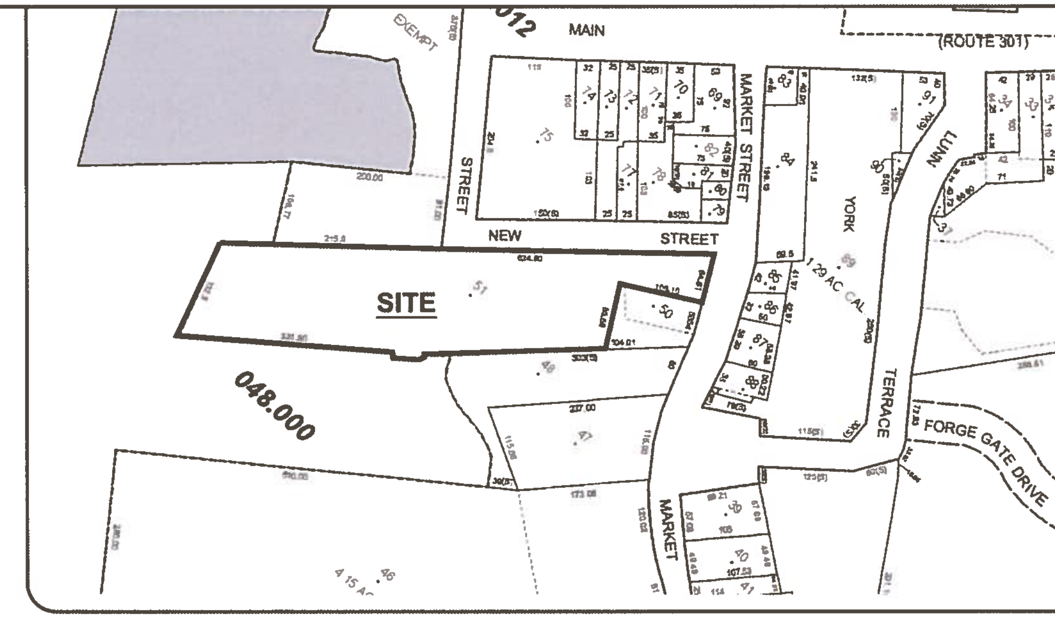
1. MAP AND PLANS ENTITLED "COLD SPRING FORMER MGP SITE REMEDIAL CONSTRUCTION, NYSDEC SITE 340026, COLD SPRING (V), PUTNAM COUNTY, NEW YORK, CONTRACT D009635" DATED MAY 2015 AND PREPARED BY URS CORPORATION.
2. PUTNAM COUNTY TAX MAP 48.12.

SURVEY CONTROL TABLE PER MAP REFERENCE NO.1 PAGE C-001			
SURVEY CONTROL POINT ID	NORTHING (US SURVEY FOOT NAD83)	EASTING (US SURVEY FOOT NAD83)	ELEVATION (US SURVEY FOOT NAVD88)
GW-01	941153.50	640286.38	7.01
GW-02	941024.83	640176.65	6.24
GW-04	940999.87	640053.97	4.65
GW-05	941042.29	640116.32	5.57

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM AN OCTOBER 2015 FIELD SURVEY.
2. THE PURPOSES OF THIS SURVEY IS TO DOCUMENT THE PRE-CONSTRUCTION CONDITIONS OF THE SITE.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. UNDERGROUND UTILITIES SHOWN HERON ARE APPROXIMATE AND BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND MAP REFERENCE NO. 1. UTILITIES ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT IMPLY TO CONSTITUTE OR REPRESENT ALL UTILITIES UPON OR ADJACENT TO THE SURVEYED AREA. OTHER UTILITIES MAY EXIST, IF ANY.
5. NMB LAND SURVEYING PERFORMED NO BOUNDARY DETERMINATION FOR THE PURPOSES OF THIS SURVEY. BOUNDARY INFORMATION AND LINES SHOWN ARE FOR REFERENCE ONLY.
6. THE DATUM USED FOR THIS SURVEY IS BASED ON PROJECT CONTROL AS SHOWN ON MAP REFERENCE NO.
7. HORIZONTAL DATUM IS BASED UPON THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), PER MAP REFERENCE NO. 1.
8. VERTICAL DATUM IS BASED UPON THE ELEVATIONS OF THE MONITORING WELLS ESTABLISHED BY WILLIAM D. YOUNGBLOOD LAND SURVEYING, P.C. AS SHOWN ON A DRAWING TITLED "SURVEY FOR VILLAGE OF COLD SPRING", FILE #P-1001, DATED 9/11/08, WHICH WAS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER MAP REFERENCE NO. 1.





SITE LOCATION MAP

N.T.S.

MONITORING POINTS	DESCRIPTION	ELEVATION
MON 1	WINDOW SIL	10.33'
MON2	TOP OF BRICK	8.26'
MON 3	VERTICAL BRICK	8.38'
MON 4	WHITE BRICK	8.31'
MON 5	WEST SILL	9.24'
MON 6	EAST BUILDING CORNER	7.65'
MON 7	WEST SILL	9.35'
MON 8	EAST BUILDING CORNER	8.12'
MON 9	EAST TOP OF FOUNDATION	18.70'
MON 10	WEST TOP OF FOUNDATION	18.67'
BASELINE 21	X-CUT	5.16'
BASELINE 49	MAG NAIL	9.02'
BASELINE 22	MAG NAIL	6.68'
BENCHMARK HYDRANT	X-CUT	9.23'

LEGEND:

- WATER VALVE
- FIRE HYDRANT
- ELECTRIC TRANSFORMER
- ELECTRIC HANDHOLE
- SIGN (1 POST)
- SIGN (2 POST)
- UTILITY POLE
- LIGHT POST
- M.W. MONITORING WELL
- TREE
- —W— WATER LINE
- —G— GAS LINE
- —OH— OVERHEAD UTILITY LINE
- —SS— SANITARY SEWER LINE
- —C— UNDERGROUND COMMUNICATION LINE
- —E— UNDERGROUND ELECTRIC LINE
- PROPERTY LINE

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

0 20 40 Feet

EXCAVATION ELEVATIONS
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO 340026
CONTRACT D009635

VILLAGE OF COLD SPRING
STATE OF NEW YORK
COUNTY OF PUTNAM

REV. NO.	DATE	RECORD OF WORK	DRAWN
1	02/22/17	RECORD DRAWING	

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

PREPARED FOR

Watermark
175 Cabot Street • Lowell, MA 01854
Phone: 978.452.9696 • Fax: 978.453.9988

DRAWING: NB15-021 COLD SPRING PRE-CONSTRUCTION.dwg

DATE: OCTOBER 21, 2015 | SCALE: 1"=20'

PROJECT: COLD SPRING FORMER MGP SITE

DRAWN BY: NMB | CHECKED BY: NMB

NMB LAND SURVEYING PLLC
20 TROY AVE. WYNANTSKILL NY, 12198
518-376-4630

PRE-CONSTRUCTION MAPPING

PRE-C-1

SHEET 1 OF 1

	NORTHING	EASTING	COVER ELEV.	PVC ELEV.
NEW GW-06	941,047.5	640,133.0	5.86'	5.34'
NEW GW-07	940,980.2	640,173.7	5.82'	5.31'
ADJUSTED GW-05	941,042.2	640,116.4	5.38'	4.96'

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM AN AUGUST 2016 THROUGH AUGUST 2016 FIELD SURVEY.
2. THE PURPOSES OF THIS SURVEY IS TO DOCUMENT THE POST-CONSTRUCTION CONDITIONS OF THE SITE.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
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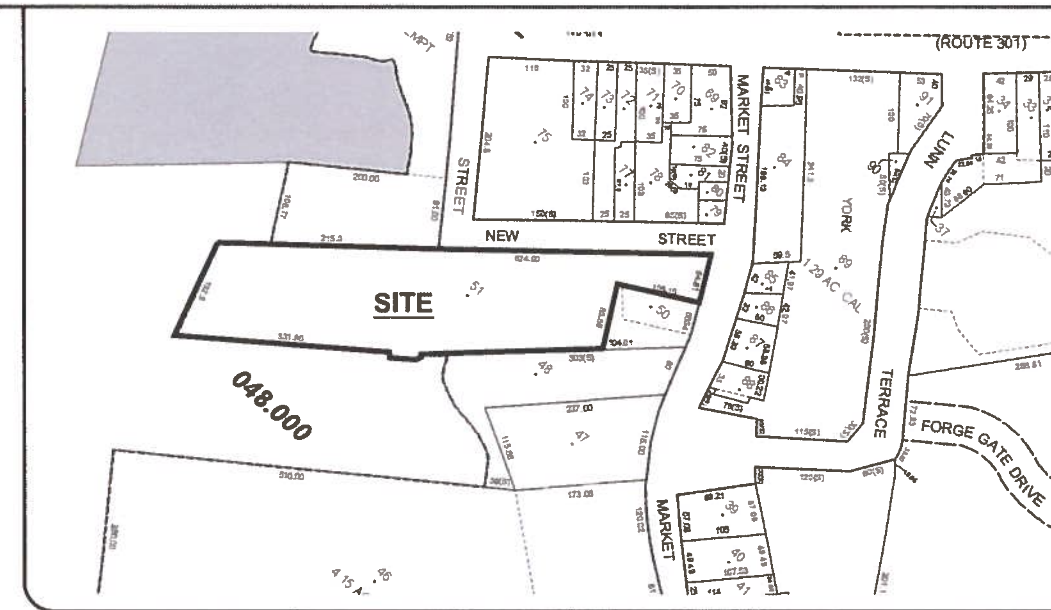
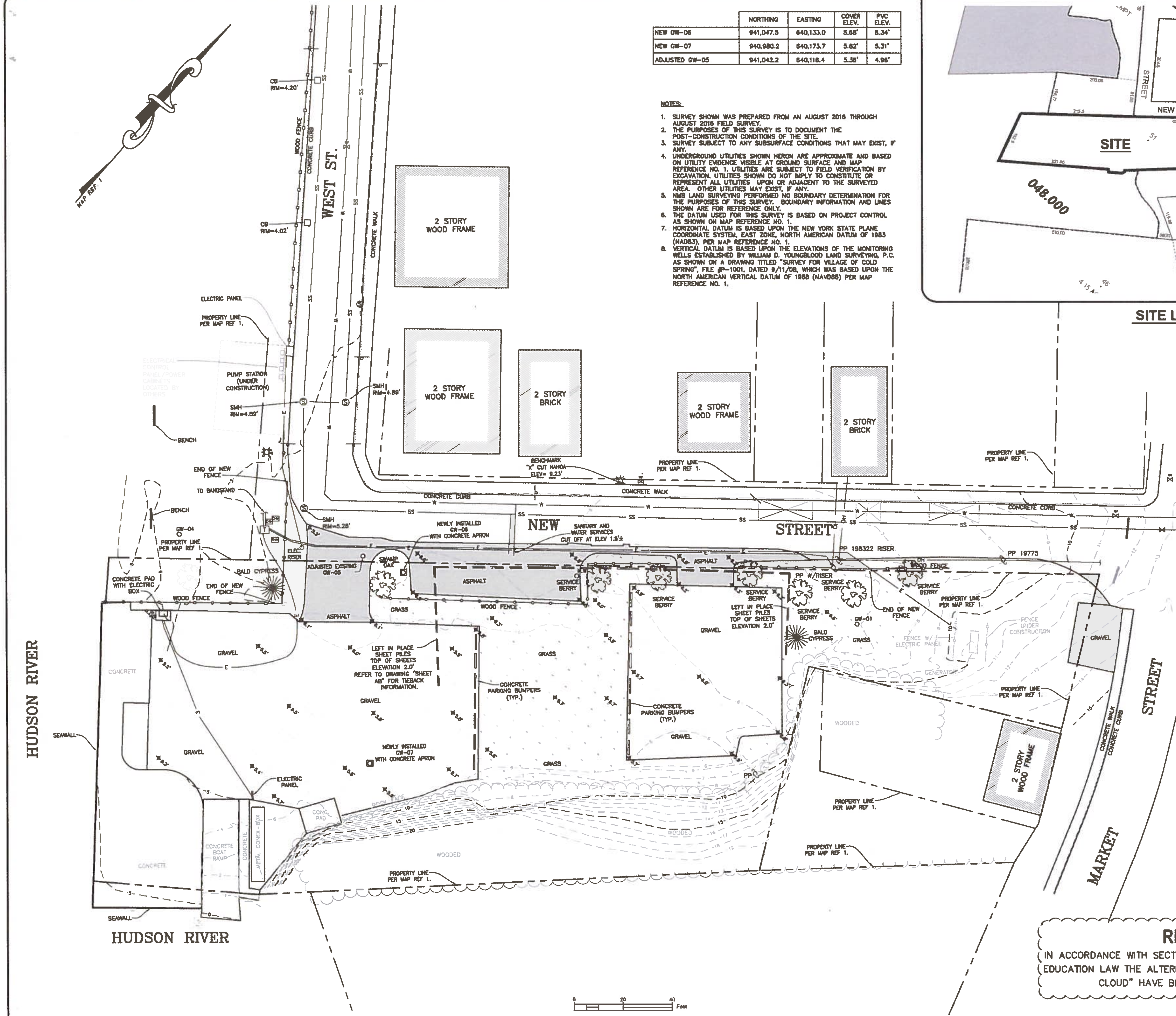


SITE LOCATION MAP

N.T.S.



MAP REFERENCE:

1. MAP AND PLANS ENTITLED "COLD SPRING FORMER MGP SITE REMEDIAL CONSTRUCTION, NYSDEC SITE 340026, COLD SPRING (V), PUTNAM COUNTY, NEW YORK, CONTRACT D009635" DATED MAY 2015 AND PREPARED BY URS CORPORATION.
2. PUTNAM COUNTY TAX MAP 48.12.

LEGEND:

- WATER VALVE
- FIRE HYDRANT
- ELECTRIC TRANSFORMER
- ELECTRIC HANDHOLE
- SIGN (1 POST)
- SIGN (2 POST)
- UTILITY POLE
- LIGHT POST
- MONITORING WELL
- TREE
- NEWLY INSTALLED FENCE
- EXISTING FENCE
- W — WATER LINE
- G — GAS LINE
- OH — OVERHEAD UTILITY LINE
- SS — SANITARY SEWER LINE
- C — UNDERGROUND COMMUNICATION LINE
- E — UNDERGROUND ELECTRIC LINE
- PROPERTY LINE
- INSTALLED ASPHALT
- INSTALLED GRAVEL

RECORD DRAWING

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

STATE OF NEW YORK · DAVID JOHN DICESARE · LICENSED PROFESSIONAL ENGINEER

EXCAVATION ELEVATIONS
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO 340026
CONTRACT D009635

VILLAGE OF COLD SPRING
COUNTY OF PUTNAM
STATE OF NEW YORK

REV. NO.	DATE	RECORD OF WORK	DRAWN
1	02/22/17	RECORD DRAWING	

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

PREPARED FOR

Watermark
173 Cabot Street • Lowell, MA 01854
Phone: 978.452.9696 • Fax: 978.453.9988

DRAWING: NB15-021 COLD SPRING POST-CONSTRUCTION.dwg

DATE: AUGUST 18, 2016 | SCALE: 1"=20'

PROJECT: COLD SPRING FORMER MGP SITE

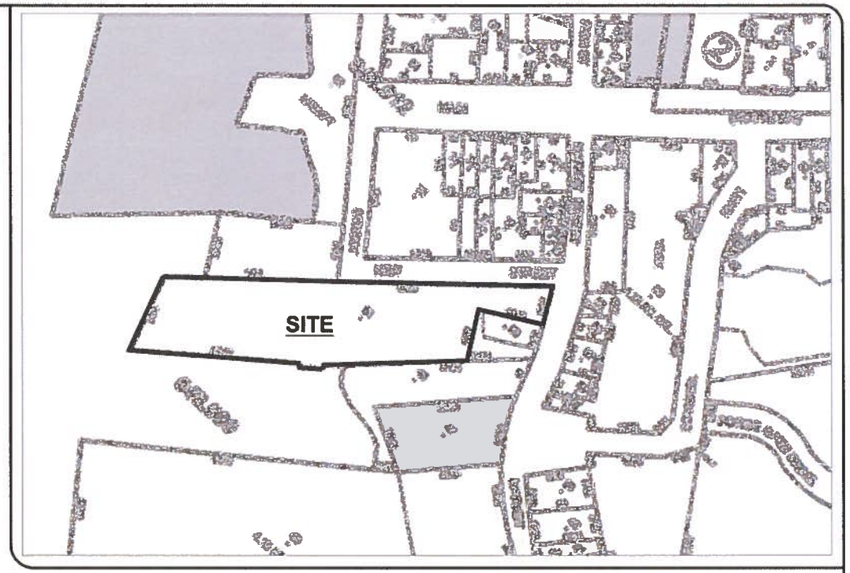
DRAWN BY: NMB | CHECKED BY: NMB

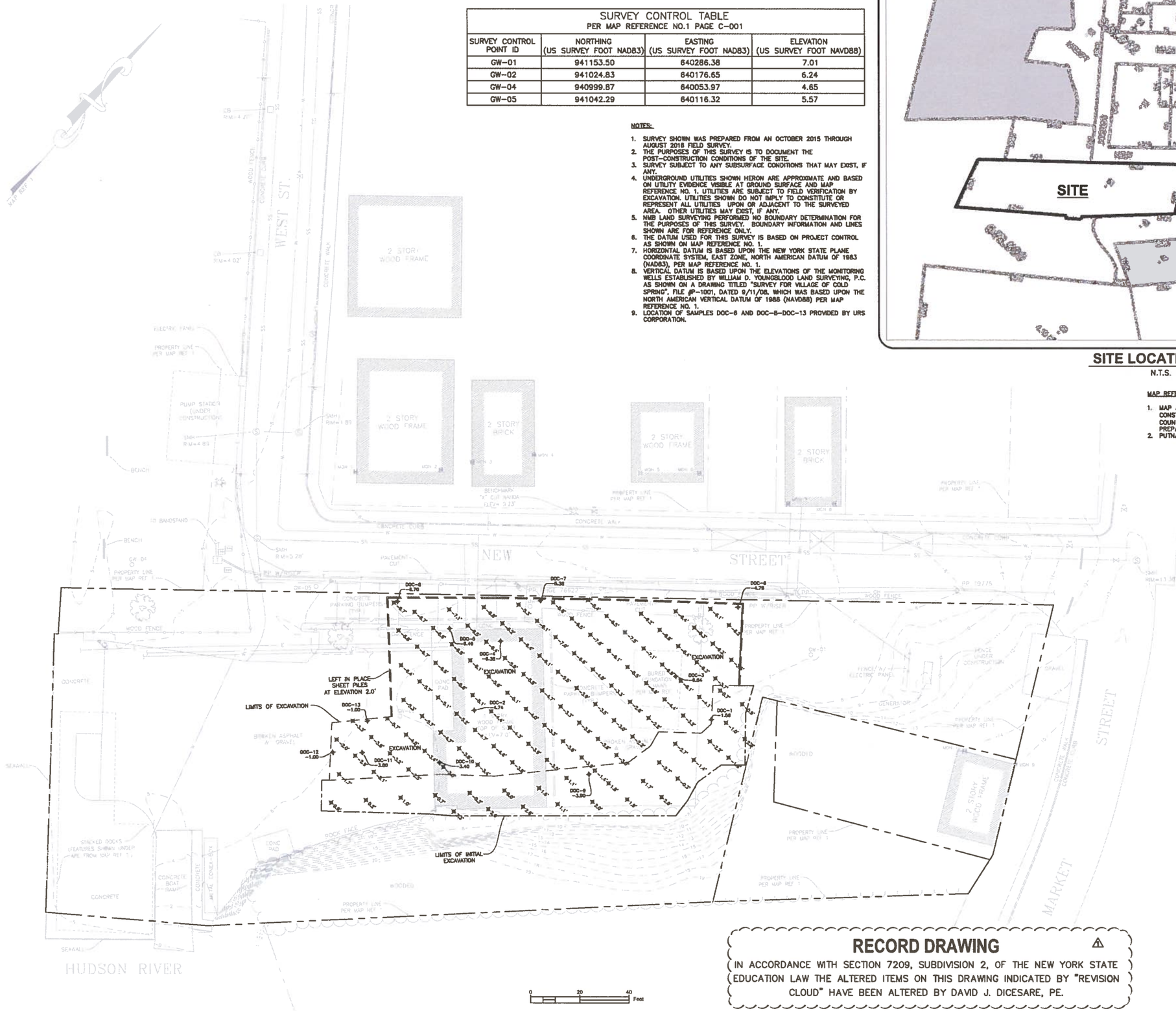
NMB LAND SURVEYING PLLC
20 TROY AVE, WYNANTSKILL NY, 12198
518-376-4630

POST-CONSTRUCTION MAPPING

POST-C-1

SHEET 3 OF 4





EXCAVATION ELEVATIONS
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO 340026
CONTRACT D009635

VILLAGE OF COLD SPRING
COUNTY OF PUTNAM
STATE OF NEW YORK

SURVEY CONTROL TABLE

PER MAP REFERENCE NO.1 PAGE C-001

SURVEY CONTROL POINT ID	NORTHING (US SURVEY FOOT NAD83)	EASTING (US SURVEY FOOT NAD83)	ELEVATION (US SURVEY FOOT NAVD88)
GW-01	941153.50	640286.38	7.01
GW-02	941024.83	640176.65	6.24
GW-04	940999.87	640053.97	4.65
GW-05	941042.29	640116.32	5.57

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM AN OCTOBER 2015 THROUGH AUGUST 2016 FIELD SURVEY.
2. THE PURPOSES OF THIS SURVEY IS TO DOCUMENT THE POST-CONSTRUCTION CONDITIONS OF THE SITE.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
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9. LOCATION OF SAMPLES DOC-6 AND DOC-8-DOC-13 PROVIDED BY URS CORPORATION.

SITE LOCATION MAP

N.T.S.

MAP REFERENCE:

1. MAP AND PLANS ENTITLED "COLD SPRING FORMER MGP SITE REMEDIAL CONSTRUCTION, NYSDEC SITE 340026, COLD SPRING (V), PUTNAM COUNTY, NEW YORK, CONTRACT D009635" DATED MAY 2015 AND PREPARED BY URS CORPORATION.
2. PUTNAM COUNTY TAX MAP 48.12.

LEGEND:

⋈	WATER VALVE
	FIRE HYDRANT
T	ELECTRIC TRANSFORMER
EH	ELECTRIC HANDHOLE
	SIGN (1 POST)
	SIGN (2 POST)
	UTILITY POLE
☼	LIGHT POST
○M.W.	MONITORING WELL
	TREE
W	WATER LINE
G	GAS LINE
OH	OVERHEAD UTILITY LINE
SS	SANITARY SEWER LINE
C	UNDERGROUND COMMUNICATION LINE
E	UNDERGROUND ELECTRIC LINE
	PROPERTY LINE
⊠ 3.0'	EXCAVATED ELEVATION

RECORD DRAWING ⚠

IN ACCORDANCE WITH SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW THE ALTERED ITEMS ON THIS DRAWING INDICATED BY "REVISION CLOUD" HAVE BEEN ALTERED BY DAVID J. DICESARE, PE.

DAVID JOHN DICESARE

REV. NO.	DATE	RECORD OF WORK	DRAWN
1	02/22/17	RECORD DRAWING	

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

PREPARED FOR

Watermark

DRAWING: NB15-021 COLD SPRING POST-CONSTRUCTION.dwg

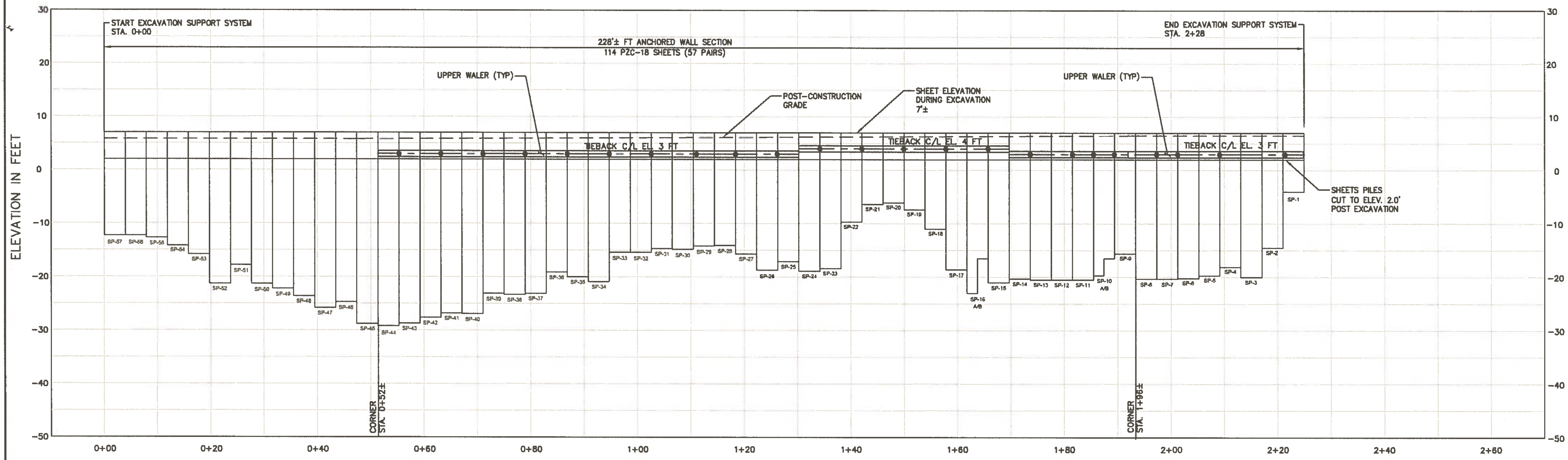
DATE: AUGUST 16, 2016	SCALE: 1"=20'
PROJECT: COLD SPRING FORMER MGP SITE	
DRAWN BY: NMB	CHECKED BY: NMB

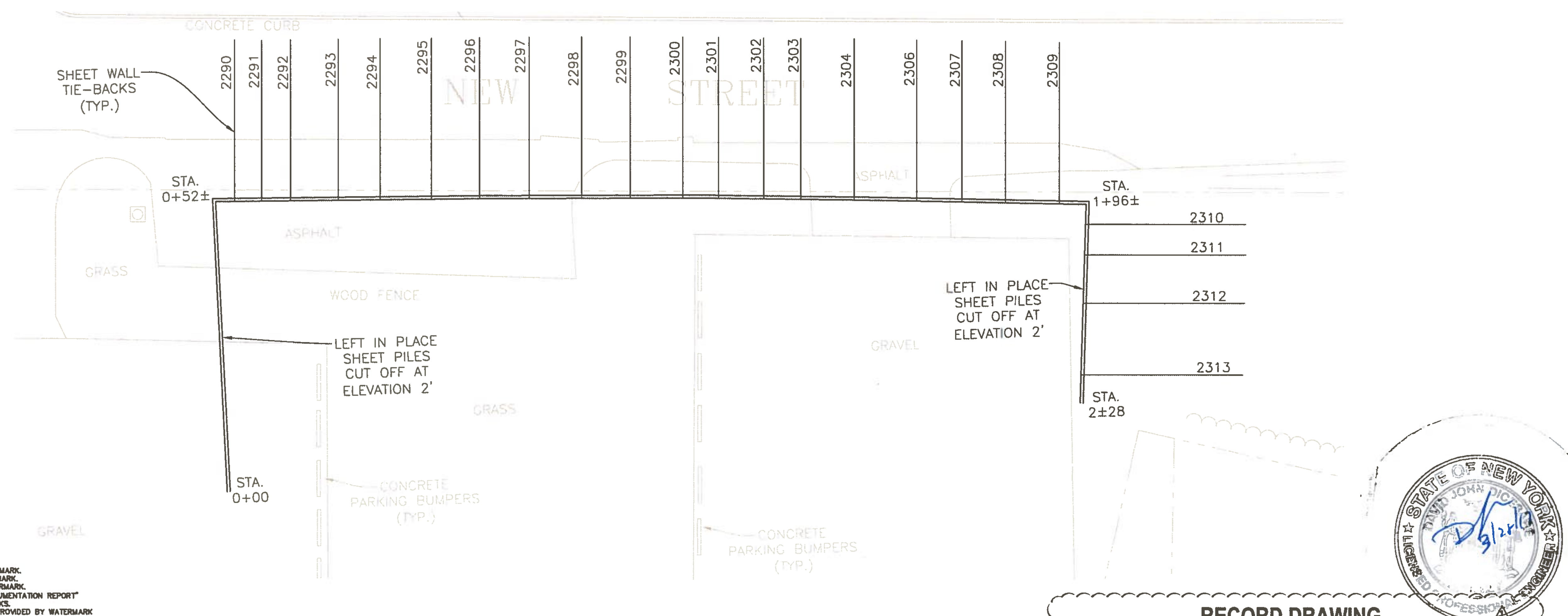
NMB
LAND SURVEYING
PLLC
20 TROY AVE. WYNANTSKILL NY, 12198
518-376-4630

EXCAVATED ELEVATIONS

EXCA-C-1

SHEET 2 OF 4





NOTES:

1. TIEBACK ELEVATIONS WERE PROVIDED BY WATERMARK.
2. TIEBACK LOCATIONS WERE PROVIDED BY WATERMARK.
3. SHEETING ELEVATIONS WERE PROVIDED BY WATERMARK.
4. REFER TO "REVISED TIEBACK INSTALLATION DOCUMENTATION REPORT" SUBMITTAL FOR INSTALLATION DEPTH OF TIEBACKS.
5. NUMBERING OF SHEETS AND TIE-BACKS WERE PROVIDED BY WATERMARK AND URS CORPORATION.

MAP REFERENCE:

1. MAP AND PLANS ENTITLED "COLD SPRING FORMER MGP SITE REMEDIAL CONSTRUCTION, NYSDEC SITE 340026, COLD SPRING (V), PUTNAM COUNTY, NEW YORK, CONTRACT D009635" DATED MAY 2015 AND PREPARED BY URS CORPORATION.

RECORD DRAWING

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EXCAVATION ELEVATIONS
COLD SPRING FORMER MGP SITE
NYS REGISTRY NO 340026
CONTRACT D009635

VILLAGE OF COLD SPRING
COUNTY OF PUTNAM
STATE OF NEW YORK

REV. NO.	DATE	RECORD OF WORK	DRAWN
1	02/22/17	RECORD DRAWING	

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

PREPARED FOR
Watermark
175 Cabot Street • Lowell, MA 01854
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DRAWING: NB15-021 COLD SPRING SHEET.dwg
DATE: SEPTEMBER 23, 2018 | SCALE: 1"=10'
PROJECT: COLD SPRING FORMER MGP SITE
DRAWN BY: NMB | CHECKED BY: NMB

NMB LAND SURVEYING PLLC
20 TROY AVE, WYNANTSKILL NY, 12198
518-378-4630

SHEETING

SHEET-AB

SHEET 4 OF 4

APPENDIX L

CONTRACT DOCUMENTS (ON DVD)

APPENDIX M

CONSTRUCTION DOCUMENTS (ON DVD)

COLD SPRING FORMER MANUFACTURED GAS PLANT SITE

FIELD CLARIFICATION MEMO (FCM) Log

Start date: October 19, 2015
Updated: March 26, 2017 (6:44PM)

FCM No.	Date Sent	Description of Field Clarification	Date Responded	Contractor Response	Additional Actions
1	10/19/15	**Section 01720 and the Response to RFI #4 specify that the Contractor shall obtain pre-construction baseline vibration data and vibration data during construction at the five residences discussed, continually, and therefore simultaneously.** **In order to obtain one week's worth of pre-construction vibration data as specified in Section 01720, Paragraph 3.02, 5 separate vibration monitors must be installed and operated concurrently. The locations are to be identified in the Vibration Monitoring Plan to be developed and submitted by the Contractor.** **Section 01720 requires at least one week of baseline monitoring prior to work at the site (excluding mobilization).**	**10/20/15**	**Submission of PCO-0001 for four additional vibration monitors for 5 months.**	

FCM No.	Date Sent	Description of Field Clarification	Date Responded	Contractor Response	Additional Actions
2	**03/01/16**	**In accordance with the ROD and Contract Specification Section 02140, treatment, analysis, and discharge of collected water is limited to site specific compounds of concern (COC), which are BTEX and PAHs. Therefore, future sampling of construction water for metals analysis is not required.**	03/02/16	**Watermark ceased reporting metals results beginning with the analytical report submitted on 03/02/16. Watermark ceased analyzing for metals beginning with the analytical report submitted on 03/04/16.**	

COLD SPRING FORMER MANUFACTURED GAS PLANT SITE

FIELD ORDER (FO) Log

Start date: October 21, 2015
Updated: March 26, 2017 (6:30PM)

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
1	10/21/15	**Immediately perform the work as necessary to allow electrical power to be obtained from the pad-mounted transformer shown on the Contract Drawings on the corner of New and West Streets**	10/26/15	Watermark plans to submit a PCO for an increase in Contract Price associated with the work in Field Order No.1. Watermark is currently moving forward with the work in Field Order No.1.	
2	11/10/15	**Immediately have samples WC-3 through WC-6 analyzed for TCLP Benzene with expedited turnaround**	11/12/15	Watermark will submit a PCO for an increase in Contract Price associated with these samples.	
3	11/11/15	**Immediately have noise monitors delivered and installed at the site.**	11/12/15	Watermark will submit a PCO for an increase in Contract Price associated with the noise monitors.	
4	11/12/15	**Watermark shall not perform any excavation activity the week of November 23 – 27, 2015**	11/13/15	Watermark will submit a PCO for an increase in Contract Price and Contract Time associated with this Field Order.	
5	11/12/15	**Immediately deliver and install jersey barriers along the temporary site fence on New Street.**	11/13/15	Watermark will submit a PCO for an increase in Contract Price associated with the jersey barriers.	
6	12/09/15	**Procedures for installation of the sheet pile wall.**	12/11/15	Watermark will submit a PCO for additional cost for the work associated with this Field Order.	
7	12/23/15	**Watermark shall implement the direction provided on December 14, 2015 in response to RFI No. 15. Watermark shall submit copies of the permits for the approved disposal facility.**	12/28/15	Watermark submitted the permit for the proposed disposal facility.	

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
8	2/18/16	**Watermark shall expand the area of excavation westward into the area shown in Figure to an initial depth of 10 feet below grade. The bottom of the excavation will be visually inspected by the Engineer, and additional depth shall be excavated as directed by the Engineer. Watermark shall collect compliance samples. Depending on the results of the confirmation samples, additional excavation may be required from that area after demobilization of the TCS.**	02/24/16	Watermark will submit a PCO for additional cost and a schedule extension for the work associated with this Field Order.	
9	2/29/16	**Watermark shall meet the discharge criteria for treated groundwater established in the Contract Documents. Watermark shall either make arrangements to convey treated groundwater by truck to a liquid waste disposal facility, re-treat and re-sample the groundwater until the discharge criteria has been met, or collect a sample from the 21,000 gallons of treated water in question with a 24-hr turnaround time for analysis.**	03/01/16	Watermark collected a sample from the 21,000 gallons of treated water with a 24-hr. turnaround time for analysis.	
10	03/01/16 (verbally on Conference Call) 03/22/16 (formally in Field Order)	**Watermark shall use rock that is 3 ft. and larger in diameter encountered during the excavation as backfill material onsite. Watermark shall segregate and place the rock that is 3 ft. and larger in diameter on a time and materials basis.**	03/07/16	Watermark began tracking handling of rock that is 3 ft. in diameter and larger on a time and materials basis. Test pit activity on 02/29/16 also tracked on a time and materials basis.	
11	03/10/16	**Watermark shall discharge samples EFF 3116, EFF 3216 0700, EFF 3216 0900, and Tank 251598 in accordance with Section 02140 of the Contract Specifications. Follow-up to approval via email on 03/04/16**	03/04/16	Watermark discharged the treated water associated with those samples to the Hudson River.	

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
12	03/10/16	**Watermark shall discharge samples EFF 3316 A, EFF 3316 B, and EFF 3316 C in accordance with Section 02140 of the Contract Specifications. Follow-up to approval via email on 03/09/16.**	03/09/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
13	03/10/16	**Watermark shall discharge sample EFF 3716 B in accordance with Section 02140 of the Contract Specifications.**	03/10/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
14	03/17/16	**Watermark shall discharge sample EFF 31416 C, EFF 31416 B, 31416 A in accordance with Section 02140 of the Contract Specifications.**	03/17/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
15	03/28/16	**Watermark shall discharge sample EFF 32316 A in accordance with Section 02140 of the Contract Specifications.**	03/28/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
16	03/23/16	**Watermark shall discharge sample EFF 32116A and EFF 32116B in accordance with Section 02140 of the Contract Specifications.**	03/23/16	Watermark discharged the treated water associated with those samples to the Hudson River.	

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
17	04/04/16	**Watermark shall discharge sample EFF 33016 B in accordance with Section 02140 of the Contract Specifications.**	04/04/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
18	04/04/16	**Watermark shall discharge sample EFF 33116 R in accordance with Section 02140 of the Contract Specifications.**	04/05/16	Watermark discharged the treated water associated with those samples to the Hudson River.	
19	04/11/16	**Watermark granted approval to use the top-soil representing the one 2,500 cubic yard batch from the sample collected on 03/02/16.**			Retracted by URS on 04/14/16
20	04/14/16	**Watermark shall discharge sample EFF 41116 in accordance with Section 02140 of the Contract Specifications. Watermark shall re-treat and re-sample the water associated with discharge sample EFF 41216 for PAHs.**	04/14/16	Watermark discharged the treated water associated with sample EFF 41116 to the Hudson River. Watermark re-treated and re-sampled the water associated with discharge sample EFF 41216 for PAHs.	
21	04/25/16	**Watermark shall discharge sample EFF 42216 in accordance with Section 02140 of the Contract Specifications.**	04/25/16	Watermark discharged the treated water associated with sample EFF 42216 to the Hudson River.	
22	04/28/16	**Watermark shall discharge sample EFF 42616 in accordance with Section 02140 of the Contract Specifications.**	04/29/16	Watermark discharged the treated water associated with sample EFF 42616 to the Hudson River.	
23	05/02/16	**Watermark shall discharge sample EFF 42816 in accordance with Section 02140 of the Contract Specifications.**	05/02/16	Watermark discharged the treated water associated with sample EFF 42816 to the Hudson River.	

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
24	05/09/16	**Watermark shall discharge sample EFF 5416 in accordance with Section 02140 of the Contract Specifications.**	05/09/16	Watermark discharged the treated water associated with sample EFF 5416 to the Hudson River.	
25	05/10/16	**Watermark shall discharge sample EFF 5916 in accordance with Section 02140 of the Contract Specifications.**	05/16/16	Watermark discharged the treated water associated with sample EFF 5/9/16 to the Hudson River.	
26	05/12/16	**Watermark shall prepare the site for access for the Cold Spring Boat Club for the weekends of May 14, 2016 and May 21, 2016 in accordance with the plan submitted by Watermark on April 29, 2016.**	05/13/16 and 05/20/16	Watermark prepared the site for weekend access for the Cold Spring Boat Club.	
26	06/07/16	**Watermark shall discharge sample EFF 52316 in accordance with Section 02140 of the Contract Specifications.**	06/08/16	Watermark discharged the treated water associated with sample EFF 52316 to the Hudson River.	
27	06/10/16	**Watermark shall discharge sample EFF 6716 in accordance with Section 02140 of the Contract Specifications.**	06/10/16	Watermark discharged the treated water associated with sample EFF 6716 to the Hudson River.	
28	06/15/16	**Watermark shall backfill the excavation that was completed in association with Field Order No. 8. Based on the results of the sidewall confirmation samples collected on 06/09/16, no additional excavation is required.**	06/09/16	Watermark began backfilling the excavation.	
29	06/16/16	**Watermark shall discharge sample EFF 61316 and EFF 61416 in accordance with Section 02140 of the Contract Specifications.**	06/17/16	Watermark discharged the treated water associated with sample EFF 61316 and EFF 61416 to the Hudson River.	

F.O. No.	Date Sent	Brief Description of Field Order	Date Responded	Contractor Response	Additional Actions
30	06/27/16	**Watermark shall discharge sample EFF 63316 in accordance with Section 02140 of the Contract Specifications.**	06/27/16	Watermark discharged the treated water associated with sample EFF 63316 to the Hudson River.	
31	06/28/16	**Watermark shall prepare the site for access for the Cold Spring Boat Club for the weekends of July 2, 2016 in accordance with the plan submitted by Watermark on April 29, 2016.**	07/01/16	Watermark prepared the site for weekend access for the Cold Spring Boat Club.	
32	07/13/16	**Watermark shall remove the top 1 ft. of the 15 ft. x 60 ft. area of topsoil in the Grass Restoration Area onsite and replace it with onsite stone as requested by the Cold Spring Boat Club.**	07/12/16	Watermark performed the modification at no cost.	
33	07/20/16	**Watermark shall restore the utility trench installed on New Street by the Village of Cold Spring with NYSDOT Item 403.13 Type 3 Binder and NYSDOT 403.18 Type 7 Top Course as shown on Contract Drawing D-001 and in accordance with the Contract Documents.**	08/08/16 and 08/09/16	Watermark restored the utility trench.	
34	08/05/16	**Per the site walkover on August 2, 2016, Watermark shall repair the pavement at the site entrance.**	08/08/16 and 08/09/16	Watermark repaired the pavement.	

COLD SPRING FORMER MANUFACTURED GAS PLANT SITE

Request for Further Information (RFI) Log

Start date: July 30, 2015
Updated: March 26, 2017 (6:29PM)

RFI No.	Date Received	Brief Description of RFI	Response No. / Date Responded	Response	Additional Actions
001	**7/30/15**	**Is crushed stone that meets ASTM D2487 an acceptable backfill material? Is steel sheeting new from the factory required?**	**7/31/15**	**Crushed stone that meets the specified requirements is acceptable.**	
002	**8/4/15**	**Do monitoring wells MW-A. MW-B, MW-01, and GW-02 require abandonment if the entire structure of each well is removed during the excavation process?**	**8/13/05**	**The Contractor shall not formally abandon any well if its structure will be removed during the excavation.**	
003	**8/20/15**	**Do the VMS Design and associated submittals need to be stamped by a New York State licensed professional engineer?**	**8/21/05**	**The requirement that VMS design and submittals be stamped by a NYS-registered PE are waived for any system meeting the contract specifications.**	
004	**8/24/15**	**Can final record drawings be stamped by a New York State Licensed Surveyor rather than a New York State Licensed Engineer? Provide locations for vibration monitoring. Is one set of movement monitoring readings for adjacent building acceptable rather than three? Confirm the first floor monitoring location. Will NYSDEC/Engineer identify specific movement monitoring point locations? Recommends removing the roof monitoring point location due to health and safety concerns.**	**8/24/05**	**NYS-licensed surveyor's stamp is acceptable for record survey drawings. "Red-line" information recorded and maintained on drawings must be stamped by a NYS-licensed professional engineer. Residences to be monitored provided in Figure 1. URS/AECOM will determine specific locations for the movement monitoring points in the field. Watermark may provide locations for URS/AECOM review. The Contractor shall collect three sets of baseline movement readings. The first floor monitoring point will be on the outside of the building. URS/AECOM will determine/approve specific locations of the movement monitoring points in the field after NTP. Watermark may request modifications to the monitoring protocol on a building-by-building basis after examination of the individual buildings in the field.**	

Updated: March 26, 2017 (6:29PM)

RFI No.	Date Received	Brief Description of RFI	Date Responded	Response	Additional Actions
004A	9/3/15	Final redline drawing deliverable consist of hard copy with hand drawn changes or updated CAD drawings? In addition to final red line drawings, Water mark shall provide a final as-built drawing sealed by a licensed surveyor and a buried features drawing? Confirm if above drawings will satisfy Final Record Drawing requirements.	9/14/15	Both hand drawn and CAD drawings shall be submitted. Correct on supplemental drawing submittals. The requirements for the record drawings are set forth in the Contract Documents. The requirement for the preparation/revision of the environmental easement survey was waived in Addendum No. 3.	
005	8/31/15	Complete the "additional initial excavation area" under odor-suppressant foam rather than under the TCS. A portion of the stabilized backfill area currently noted on Drawing C-006 directly south/southeast of the "additional initial excavation area" will be backfilled with granular fill.	9/14/15	The proposed alternative approach is not acceptable.	
005A	10/09/15	Stabilized Backfill Wall Design Alternative	10/12/15 (Conference Call)	Watermark instructed to resubmit as an "Or-Equal" or Substitute Item. Watermark resubmitted as a "Substitute / Or-Equal", Submittal No. 00001-2 on 10/16/15.	
006	09/2/15	Is power required to be active for the boat docks during construction activities from the "service meter and load center"? What are the power/amperage requirements to be left in place for future use? Confirm if power for the VMS available from the new pole set adjacent to CHG&E pole 40951. Confirm if this has been completed and if Watermark is to disconnect power and remove this pole at the completion of the Work.	9/15/15	No power will be required at the boat docks during construction activities from the service meter and load center. Three-phase power will be provided from the new pole on New Street. Watermark must make arrangements with Central Hudson for all of its power needs. Watermark shall also coordinate the disconnection of power and the removal of the pole at the completion of the project.	
007	9/2/15	Is a potable water service available within the Contractor Trailer service area? If not can the decontamination facility requirement be eliminated?	9/17/15	The requirements for water at the decontamination facility shall be as required by Watermark's Health and Safety Plan.	
008	9/2/15	Please indicate how to proceed with the utility disconnect requests.	9/14/15	Contact information at the utilities provided.	
009	9/22/15	Discrepancies in excavation depths found between drawings C-006, C-009, and C-010	9/23/15	Drawings C-008, C-009, and C-010 have been revised to resolve the discrepancy.	

Updated: March 26, 2017 (6:29PM)

RFI No.	Date Received	Brief Description of RFI	Date Responded	Response	Additional Actions
010	9/29/15	Verify that the weight limit of the bridge is 80,000 lbs.	10/06/15	See the responses to questions 25, 77, and 78 of Addendum 3 to the Contract Documents	
011	10/01/15	Provide the design calculations for the stabilized backfill wall as shown in the contract drawings.	10/02/15	Pages from the design calculation package that address the stabilized backfill wall were provided to Watermark	
012	10/02/15	Provide a detailed list of laboratory analyses for the soil samples to be collected to further define the area of potential contamination. Also provide required Turn Around Times (TAT) for the analyses.	10/19/15	The Contractor shall advance Geoprobe® borings to bedrock at the locations shown on revised version of Drawing C-006. The Engineer will log and visually inspect the samples for evidence of coal tar, and will collect the analytical samples. The contractor shall obtain laboratory services and provide the glassware to analyze for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by EPA Method 8260 and for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270. The analyses shall be performed with a one-week turnaround time.	
013	11/02/15	Verify the wind load requirement for the temporary containment structure.	11/06/15	The Contractor may submit an "or equal" substitution if their proposed temporary containment structure has a design wind speed less than the 120 MPH specified in the Contract Documents.	
014	11/02/15	Verify that pesticides and metals are the correct analyses for the personnel documentation monitoring samples.	11/11/15	The personnel documentation samples should be collected for BTEX and PAHs in addition to particulates.	
015	11/17/15	Provide feedback on how best to proceed with the oversized rock present at the site.	12/15/15	Identify disposal facility for the rock, excavate the rock, transport and dispose of the rock at the facility, rock too large for the facility shall be staged onsite, cleaned of soil and used as backfill in the main excavation.	
016	03/02/16	Verification that use of treated storm water in tieback drilling operations is acceptable.	03/17/16	This is acceptable. Acceptance is contingent upon water meeting discharge criteria established in the Contract Documents.	

Updated: March 26, 2017 (6:29PM)

017	**03/03/16**	**Verification that compliance sampling as per the Contract Documents should still be completed if rock over 3 ft. is used as backfill material**	**03/18/16**	**Compliance sampling shall be completed in accordance with the Contract Documents.**	
018	**03/03/16**	**Provide direction on whether the free product currently present on the surface of the water and that which may be encountered during future excavation should be removed (to the extent practical) for characterization and disposal.**	**03/18/16**	**Volume of free product encountered is not as great as Watermark originally anticipated. Waste products shall be disposed of in accordance with approved Contract Documents. No formal response to RFI required or provided. (Sent via E-mail)**	
019	**03/30/16**	**Based on recent water treatment plant results, request for permission to reduce the frequency of sample collection from the onsite water treatment plant from one sample per 7,000 gallons to one sample per 21,000 gallons for the required BTEX and PAH analyses**	**03/31/16**	**Effluent analytical results from the onsite water treatment plant submitted by Watermark since February 25, 2016 have met the discharge criteria established in the Contract Documents. URS hereby grants permission to Watermark to submit one sample for the required BTEX and PAH analyses for discharge per 21,000 gallons of water treated.**	
020	**04/20/16**	**In order to help accelerate the schedule, proposal to complete the excavation of the contaminated material remaining along the western sheet pile wall prior to the installation of the upper and lower whalers and tieback anchors.**	**04/21/16**	**Note that URS did not approve these excavation means and methods approach, and that, if Watermark undertakes this work, Watermark will be solely responsible for the work and any resulting damages and the costs for all associated repairs.** **URS suggested limiting the width of the excavation to 10 feet instead of 20 feet, keeping all equipment away from the top of the wall a distance equal to the maximum height of cantilever, employing an observer to continuously monitor the sheet pile wall and the area behind the sheet pile wall, and having on hand and accessible sufficient backfill materials to immediately stabilize the wall.**	

021	**04/20/16**	**In order to help accelerate the schedule, proposal to eliminate the lower whaler and tiebacks along the northern and eastern sheet pile walls.**	**04/26/16**	**Note that URS did not approve these excavation means and methods approach, and that, if Watermark undertakes this work, Watermark will be solely responsible for the work and any resulting damages and the costs for all associated repairs.** **Watermark shall provide a submittal including a stamped certification from Tectonic that explicitly states that the installation of the sheetpile wall without the bottom waler is acceptable to the full depth shown or required by the Contract. The submittal shall also include the minimum requirements for backfill placed against the wall (height, compaction, etc.), and how it will be determined to be acceptable in the field, before the excavation in front of the next length of wall can commence.** **URS suggested limiting the width of the excavation to 10 feet instead of 20 feet, keeping all equipment away from the top of the wall a distance equal to the maximum height of cantilever, employing an observer to continuously monitor the sheet pile wall and the area behind the sheet pile wall, and having on hand and accessible sufficient backfill materials to immediately stabilize the wall.**	

022	**05/27/16**	**The wooden fencing in place prior to the start of construction activities at the site was removed and stockpiled onsite at the beginning of the project. Following inspection of the type/style of the original fence it has been determined the fence was custom made and the type and style cannot be purchase as a new product for replacement.** **The original fence was removed with care and is in good condition. Watermark recommends utilizing the pre-existing fence panels that were previously removed rather than purchasing a different style of fence for replacement.** **Watermark can complete any necessary repairs to the pre-existing fence panels (install new posts etc) and will re paint the fence as needed to match the remaining property fencing. Watermark believes this will provide the best final product.** **Please verify this is acceptable.**	**6/16/16**	**The Village provided written correspondence requesting new fencing, therefore the proposal is unacceptable. Per the Contract Drawing C-007, "Contractor shall install new fence of style, material and color of removed fence (typ.) to match existing fence".** **The Village has identified the following suitable replacement fence: Classic Victorian Western Red Cedar Picket Fence Type 707 Scalloped as manufactured by Eastern Wood Fencing and available at Dain's Lumber in Peekskill, New York (914-737-2000). New pressure-treated 4 x 4 posts and caps shall also be installed.** **Please note that the Village of Cold Spring will install the section of fence that spans the length of the former Boat Club Building location at its own expense.**	
023	**05/31/16**	**Drawing D-001notes that a 12" layer of NYSDOT Subbase No.4 shall be placed on top of the "backfill" material in the gravel areas up to finished grade. Watermark made the decision (approved by URS) to utilize Subbase Item No. 4 for all backfill material onsite. The backfill material Item 4 that is currently being utilized onsite meets the requirements for NYSDOT subbase No.4. Watermark intends to utilize this material up to finished grade within the gravel areas.** **Watermark recommends placement of clean stone on top of the Item No. 4 material to provide a final finished surface.** **Please provide feedback.**	**6/15/16**	**Watermark's recommendation is acceptable. However, the 2"-3" layer of clean, Item No. 2 stone should be placed on top of the Subbase Item No. 4 up to finished grade. This will result in no increase in the amount of material required. The final grades shown in the Contract Documents shall still be established.**	

024	**05/31/16**	**The elevation of the existing flowable fill wall needs to be lowered slightly during restoration activities to meet final grades. Watermark will remove the necessary flowable fill and request for this material to remain onsite and be utilized as backfill. This material will be placed in the bottom of the remaining excavation areas outside the TCS in conjunction with any oversized rock to remain onsite for use as backfill.** **Please verify this is acceptable.**	**06/01/16**	**This practice is acceptable. This acceptance is contingent upon the flowable fill being absent of visible staining.**	
025	**08/01/16**	**The contract specifications discuss hydro seeding as the intended application for grass seed at the site. However, based on the higher temperatures during this time of year and recommendations from hydro seeding subcontractors, Watermark recommends completing the final grass seed application via mechanical methods and placement of straw mat following grass seed application to enhance germination and help hold in moisture.** **Please verify this is acceptable.**	**08/03/16**	**This approach is acceptable.**	

URS CORPORATION - Submittal Schedule

Project: COLD SPRING FORMER MANUFACTURED GAS PLANT SITE REMEDIATION
Client/Owner: NYSDEC CONTRACT NO. D009635
Contractor: WATERMARK

URS CORPORATION
257 W. Genesee St.
Buffalo, New York 14202
(716) 856-5636

Submittal Register Number	Revision Number	Specification Section Number	Description of Submittal	Contractor Transmittal Number	Received		Review			Date Returned To Contractor	Remarks
					Date	By	Code	Date	By		
III-1		III, Article 5 b	Plan of Operations		7/6/2015	RW	Revise as Noted	8/21/2015	RW	8/21/2015	Includes components of other submittals (work plan, etc.)
01010-1		III, Article 5 b	Plan of Operations and Construction Phasing Plan	01010-1	9/30/2015	KJ	Resubmit with Revisions	10/22/2015	KJ	10/23/2015	
01010-1A		III, Article 5 b	Plan of Operations	01010-1A	11/5/2015	KJ	Approved	11/17/2015	KJ	11/17/2015	
01400-2		01400 1.02 B	Sampling Plan		7/6/2015	KJ	Resubmit with Revisions	10/12/2015	GK	10/19/2015	
01400-2A		01400 1.02 B	Sampling and Analysis Plan	01400-2A	11/5/2015	KJ					Re-submitted prior to receiving response
01400-2B		01400 1.02 B	Sampling and Analysis Plan	01400-2B	11/16/2015	KJ	Approved as Noted	11/19/2015	KJ	11/19/2015	
01400-1		01400 1.02 A	QA/QC Plan		7/6/2015	KJ	Disapproved	10/12/2015	GK	10/19/2015	
01400-1		01400 1.02 A	Environmental Sampling Quality Assurance Project Plan	01400-1	11/9/2015	KJ	Resubmit with Revisions	11/11/2015	PF	11/11/2015	
01400-1A		01400 1.02 A	Environmental Sampling Quality Assurance Project Plan	01400-1A	11/18/2015	KJ	Resubmit with Revisions	11/19/2015	PF	12/7/2015	
01400-1B		01400 1.02 A	Environmental Sampling Quality Assurance Project Plan Revision 2	01400-1B	1/8/2016	KJ	Approved as Noted	1/13/2016	PF	1/13/2016	
01035-1		01035 1.10 B	Health and Safety Plan		7/6/2015	KJ	Resubmit with Revisions	10/8/2015	SM	10/19/2015	
01035-1A		01035 1.10 B	Health and Safety Plan	01035-1A	11/4/2015	KJ	No Comments	11/12/2015	KJ	11/12/2015	
01400-3		III, Article 11	Preliminary Progress Schedule		7/6/2015	KJ					
00001-1		III, Article 11	Progress Schedule - Baseline Revision 1	00001-1	10/2/2015	KJ	Revise and Resubmit	10/07/15	RW	10/07/15	
00001-1A		III, Article 11	Progress Schedule - Baseline Revision 1 - Revised	00001-1A	10/9/2015	KJ	Resubmit with Revisions	10/19/15	RW	10/19/15	
00001-1B		III, Article 11	Progress Schedule - Baseline Revision 1 - Revised 10-26-15	00001-1B	10/26/2015	KJ	Approved as Noted	10/28/15	KJ	10/28/15	
00001-1C		III, Article 11	Revised Progress Schedule – Dated 11/20/2015	00001-1C	11/23/2015	KJ	Approved as Noted	12/10/15	KJ	12/10/15	
00001-1D		III, Article 11	Revised Progress Schedule – 02/24/16	00001-1D	2/24/2016	KJ	Approved as Noted	03/10/16	KJ	03/10/16	
00001-1E		III, Article 11	Revised Project Schedule Draft April 2016	00001-1E	4/11/2016	KJ	Resubmit with Revisions	04/19/16	KJ	04/19/16	
00001-1F		III, Article 11	Cold Spring Schedule Update - 4-21-2016	00001-1F	4/25/2016	KJ	Approved as Noted	05/02/16	KJ	05/02/16	
00001-1G		III, Article 11	Cold Spring 09 June 2016 Update - Final	00001-1G	6/10/2016	KJ	Resubmit with Revisions	06/14/16	KJ	06/14/16	
00001-1H		III, Article 11	Cold Spring 08Jul16 Update - Final	00001-1H	7/12/2016	KJ	Resubmit with Revisions	07/26/16	KJ	07/27/16	
00001-1I		III, Article 11	Cold Spring Schedule update - August 2016	00001-1I	8/23/2016	KJ	Resubmit with Revisions	08/26/16	KJ	08/26/16	
00001-1J		III, Article 11	Cold Spring 04Oct16 Update - Final	00001-IJ	10/5/2016	KJ	Resubmit with Revisions	11/02/16	KJ	11/02/16	
		III, Article 5 c	Signed and Notarized Contract Agreement		7/21/2015	KJ					Provided for information only - not returned
		III, Article 5 c	Bid Breakdown		7/21/2015	KJ	Approved	10/15/15	RW	10/15/15	
		III, Article 5 c	Insurance Documents		7/21/2015	KJ					Provided for information only - not returned
		III, Article 4	Worker's Compensation Forms		7/21/2015	KJ					Provided for information only - not returned
		III, Article 5 c	Performance Bond		7/21/2015	KJ					Provided for information only - not returned
		III, Article 5 c	Labor and Materials Bond		7/21/2015	KJ					Provided for information only - not returned

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Client/Owner: NYSDEC CONTRACT NO. D009635
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257 W. Genesee St.
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					Date	By	Code	Date	By		
			NYS OSC Substitute Form W-9		7/21/2015	KJ					Provided for information only - not returned
01510-3		01510	Site Security Plan	01510-3	9/30/2015	KJ	Approved	10/22/2015	KJ	10/23/2015	
01570-1		01570	Traffic Management Plan	01570-1	9/30/2015	KJ	Resubmit with Revisions	10/22/2015	KJ	10/23/2015	
01570-1A		01570	Traffic Management Plan	01570-1A	11/4/2015	KJ	Approved	11/17/2015	KJ	11/17/2015	
02070-1		02070	Demolition Plan	02070-1	9/30/2015	KJ	Resubmit with Revisions	10/22/2015	KJ	10/23/2015	
02070-1A		02070	Demolition Plan	02070-1A	10/26/2015	KJ	Approved	10/28/2015	KJ	10/28/2015	
02120-1		02120	Erosion and Sediment Control Plan	02120-1	9/30/2015	KJ	No Exceptions Taken	10/7/2015	RW	10/7/2015	
02140-1		02140	Dewatering and Water Treatment Work Plan	02140-1	9/30/2015	KJ	Resubmit with Revisions	10/22/2015	KJ	10/23/2015	
02140-1A		02140	Dewatering and Water Treatment Work Plan	02140-1A	11/6/2015	KJ	Approved	11/12/2015	KJ	11/12/2015	
02140-1B		02140	Addendum 1 – Dewatering and Water Treatment Plant Work plan	02140-1B	1/22/2015	KJ					Permission to Discharge granted in January 25, 2016 E-mail
02508-1		02508	Community Air Monitoring Plan	02508-1	9/30/2015	KJ	Resubmit with Revisions	10/16/2015	SM	10/19/2015	
02508-1A		02508	Community Air Monitoring Plan	02508-1A	11/4/2015	KJ	No Comments	11/12/2015	KJ	11/12/2015	
02508-04		02508	DustTrak DRX (Dust Monitor) Spec Sheet	02508-04	11/2/2015	KJ					Provided for information only - not returned
02508-05		02508	MiniRae-2000 (PID) Spec Sheet	02508-1A	11/2/2015	KJ					Provided for information only - not returned
02508-06		02508	Vantage Pro2 & Plus (Weather Station) Spec Sheet	02508-1A	11/2/2015	KJ					Provided for information only - not returned
02508-07		02508	Netronix Modem Spec Sheet	02508-1A	11/2/2015	KJ					Provided for information only - not returned
01561-1 & 01563-1		01561 & 01563	Environmental Protection Plan and Spill Control Plan	01561-1 & 01563-1	10/1/2015	KJ	Resubmit with Revisions	10/22/2015	KJ	10/23/2015	
01561-1A		01561	Environmental Protection Plan	01561-1A	11/4/2015	KJ	Approved	11/17/2015	KJ	11/17/2015	
01510-1		01510	Field Office Floor Plan and Elevation	01510-1	10/2/2015	KJ					
01720-1		01720	Vibration Monitoring Plan	01720-1	10/23/2015	KJ	Approved as Noted	10/29/2015	KJ	10/29/2015	
01720-01		01720	Mini-Seismograph Spec Sheet	01720-01	11/2/2015	KJ					Provided for information only - not returned
00001-2			Stabilized Backfill Wall Design Substitution	00001-2	10/16/2015	KJ	Disapproved	11/6/2015	RW	11/6/2015	
02230-1		02230	Transportation and Disposal Plan	02230-1	10/30/2015	KJ	Resubmit with Revisions	11/12/2015	KJ	11/12/2015	
02230-1A		02230	Transportation and Disposal Plan	02230-1A	11/20/2015	KJ	Approved	11/25/2015	KJ	11/25/2015	
02220-1 & 02210-1		02220 & 02210	Excavation, Filling, and Grading Plan	02220-1 & 02210-1	11/4/2015	KJ	Resubmit with Revisions	11/12/2015	RW/KJ	11/12/2015	
02220-1A & 02210-1A		02220 & 02210	Excavation, Filling, and Grading Plan	02220-1A & 02210-1A	11/20/2015	KJ	Resubmit with Revisions	11/30/2015	RW/KJ	11/30/2015	
02220-1A & 02210-1A		02220 & 02210	Excavation, Filling, and Grading Plan	02220-1A & 02210-1A	11/20/2015	KJ	Approved as Noted	12/2/2015	RW	12/2/2015	
			Excavation Sequence Under TCS 4-6-2016		4/6/2016	KJ					Provided for information only - not returned
02162-1 & 02226-1		02162 & 02226	Sheet Pile, Wailer, and Tieback Design (Structural Design Calculations)	02162-1 & 02226-1	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal

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02162-2, 02226-5, & 05120-2		02162, 02226, & 05120	Sheeting and Tieback Work Plan with Drawings	02162, 02226, & 05120	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal
02162-1a, 02162-2a, 02162-3a, 02226-2a, 02226-5a, 02226-7a, 05120-1a, 05120-2a		02162, 02226, 05120	Revised Sheeting and Tieback Work Plan/Design with Drawings and Driving Methods	02162 & 02226	12/10/2015	KJ	Approved as Noted	12/10/2015	RW	12/10/2015	
02162-2a		02162, 02226, & 05120	Sheeting and Tieback Work Plan with Drawings	02162-2a	12/7/2015	KJ	Resubmit with Revisions	12/9/2015	RW	12/9/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal
05120-1		05120	Structural Steel Product Information	05120-1	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal
02226-7		02226	Equipment Information Submittal	02226-7	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal

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02162-3		02162	Signed Geotechnical Memo	02162-3	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	Approved as Noted upon receipt of 12/10/15 sheeting submittal
05120-3		05120	Qualification Data	05120-3	11/4/2015	KJ	Resubmit with Revisions	11/18/2015	RW	11/18/2015	
02226-3		02226	Mill Certs for Sheet Pile	02226-3	12/11/2015	KJ	Approved	12/16/2015	KJ	12/16/2015	
05120-3		05120	Sheet Pile Subcontractor - Qualification Information	05120-3	12/11/2015	KJ	Resubmit with Revisions	12/16/2015	RW	12/16/2015	
05120-3A		05120	Sheet Pile Subcontractor - Qualification Information	05120-3A	12/16/2015	KJ	Approved as Noted	12/16/2015	RW	12/16/2015	
05120-4		05120	Sheet pile Wall Design Review and Modification – Tectonic 1-20-2016	05120-4	1/22/2016	KJ	Resubmit with Revisions	1/28/2016	RW/VG	1/28/2016	
		05120	Tectonic - 7948.01 Clarification Letter 1-29-2016 and Tectonic - Embedment Clarification Letter and Calcs 2-3-2016		2/10/2016	KJ	Approved	3/7/2016	RW	3/7/2016	
05120-5		05120	7948.01_Lower_Waler_Letter_05-02-2016	05120-5	5/4/2016	KJ	Approved as Noted	5/9/2016	RW	5/9/2016	
05120-6		05120	Cold Spring Former MGP Site - Proposed Plan for Elimination of Lower and Middle Whalers_5_13_2016 - Sealed	05120-6	5/17/2016	KJ	Resubmit with Revisions	5/17/2016	RW	5/17/2016	
05120-6A		05120	Proposed Plan for Elimination of Middle Whaler - Revised 5-18-16 - Stamped	05120-6A	5/18/2016	KJ	Approved as Noted	5/18/2016	KJ	5/18/2016	
05120-7		05120	Cold Spring-Letter_Soil_Anchor_5-17-2016	05120-7	5/18/2016	KJ	Resubmit with Revisions	5/18/2016	KJ	5/18/2016	
05120-7A		05120	Response to URS comments on Tectonic upper waler letter - 5-18-2016 - Stamped	05120-7A	5/18/2016	KJ	Approved	5/18/2016	KJ	5/18/2016	
05120-8		05120	Redesign & Final Bar Anchor Proof Test Reports - Submittal - 8-30-2016	05120-8	8/30/2016	KJ	Resubmit with Revisions	9/23/2016	KJ	9/26/2016	
05120-8A		05120	Tectonic Letters, Designs, Certifications and Tie-Back Test Reports - Revised	05120-8A	9/29/2016	KJ	Resubmit with Revisions	10/4/2016	KJ	10/4/2016	
05120-8		05120	Tectonic Letters, Designs, Certifications, tieback test reports	05120-8	8/30/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
05120-8A		05120	Tectonic Letters, Designs, Certifications and Tie-Back Test Reports - Revised	05120-8A	9/29/2016	KJ	Resubmit with Revisions	10/4/2016	KJ	10/4/2016	

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05120-8B		05120	Tieback Installation Documentation Report	05120-8B	10/4/2016	KJ	Resubmit with Revisions	10/19/2016	KJ	10/19/2016	
05120-8C		05120	Revised Tieback Installation Documentation Report	05120-8C	10/19/2016	KJ	Approved	11/23/2016	KJ	11/23/2016	
02226-6		02226	Revised Sheet Pile Driving Records and Daily Reports	02226-6	3/22/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02226-4		02226	Material Safety Data Sheets	02226-4	10/27/2015	KJ					Provided for information only - not returned
01300-1		01040	Subcontractor List	01300-1	10/27/2015	KJ					Provided for information only - not returned
00001-4		III, Article 10	Vendor Responsibility Questionnaire – National Construction Rentals, Inc.	00001-4	10/27/2015	KJ					Provided for information only - not returned
00001-5		III. Article 10	Vendor Responsibility Questionnaire – Allsite Structures	00001-5	10/27/2015	KJ					Provided for information only - not returned
00001-6			Watermark Activity Hazard Analysis – Various	00001-6	10/27/2015	KJ					Provided for information only - not returned
02070-2		02070	Demolition Debris Weight Tickets	02070-2	11/23/2015	KJ					Provided for information only - not returned
00002-1		02221	Flowable Fill Mix Design	00002-1	11/23/2015	KJ	Resubmit with Revisions	11/30/2015	RW	12/1/2015	
00002-1A		02221	Flowable Fill Mix Design	00002-1A	12/1/2015	KJ	Approved as Noted	12/1/2015	RW	12/2/2015	
00002-1B		02221	Revised Flowable Fill Mix Design and Sampling	00002-1B	12/3/2015	KJ	Approved as Noted	12/16/2015	RW	12/16/2015	
00003-1		00003	Decon pad Geotextile and HDPE liner cut sheets	00003-1	11/23/2015	KJ					Provided for information only - not returned
00003-2		01560	Odor Control Foam MSDS and specification sheet	00003-2	11/23/2015	KJ	Approved	11/25/2015	KJ	11/25/2015	
01051-3		01051	Pre-Construction Survey Drawing – 10/21/2015	01051-3	11/23/2015	KJ	Resubmit with Revisions	12/7/2015	KJ	12/7/2015	
01051-4		01051	Final Survey Drafts	01051-4	9/14/2016	KJ	Resubmit with Revisions	9/29/2016	KJ	9/29/2016	Closed with Submittal 01051-5C and 01751-4C
01720-3		01720	Draft Final Record Drawings	01720-3	9/29/2016	KJ	Resubmit with Revisions	10/14/2016	KJ/RW	10/14/2016	
01051-5 and 01720-4		01051 and 01720	Final Survey Drafts and Draft Final Record Drawings	01051-5 and 01720-4	10/26/2016 and 11/4/2016	KJ	Resubmit with Revisions	11/23/2016	KJ/RW	11/23/2016	
01051-5A and 01720-4A		01051 and 01720	Final Survey Drafts and Draft Final Record Drawings	01051-5A and 01720-4A	1/19/2017	KJ	Resubmit with Revisions	2/7/2017	KJ	2/7/2017	
01051-5B and 01720-4B		01051 and 01720	Final Survey Drafts and Draft Final Record Drawings	01051-5B and 01720-4B	2/28/2017	KJ	Resubmit with Revisions	3/13/2017	KJ	3/13/2017	
01051-5C and 01720-4C		01051 and 01720	Final Survey Drafts and Draft Final Record Drawings	01051-5C and 01720-4C	3/15/2017	KJ	Approved As Noted	3/16/2017	KJ	3/16/2017	
01720-5		01720	Final As-Built Marked Prints	01720-5	11/18/2016	KJ	For Information Only	11/23/2016	KJ	11/23/2016	
13120-7		1720	Inspection Reports for Site Adjacent Structures	13120-7	12/2/2015	KJ	Resubmit with Revisions	12/10/2015	KJ	12/10/2015	
13120-7a		1720	Inspection Reports for Site Adjacent Structures	13120-7a	12/11/2015	KJ	Approved	12/16/2015	KJ	12/16/2015	

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13120-7		1720	Post-Construction Inspection Reports for Site Adjacent Structures	13120-7	8/15/2016	KJ	Resubmit with Revisions	8/29/2016	KJ	8/29/2016	
13120-7A		1720	Revised Post-Construction Inspection Reports and Photographs for Site Adjacent Structures	13120-7A	9/14/2016	KJ	Approved as Noted	10/4/2016	KJ	10/4/2016	

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13120-1, 13120-3, 13120-4		13120	TCS Design Drawing/Calculation including Foundation/Footing Design and Anchoring Requirements	13120-1, 13120-3, 13120-4	12/9/2015	KJ	TCS Design Drawings - Approved as Noted; TCS Foundation/Footing Design - Revise and Resubmit; Anchoring Requirements Approved	12/15/2015	RW	12/16/2015	
13120-1A, 13120-3A		13120	Response to comment on TCS Design Drawing/Calculations; Response to comment on TCS Foundation/Footing Design	13120-1A; 13120-3A	1/19/2016	KJ	Approved	1/28/2016	RW	1/28/2016	
13120-7		13120	TCS Footing Pull Test Evaluation Letter – Stamped	13120-7	1/22/2016	KJ	Approved As Noted	1/28/2016	RW	1/28/2016	
13120-5		13120	Manufacturer Qualifications	13120-5	12/9/2015	KJ	Approved	12/15/2015	RW	12/16/2015	
13120-6		13120	TCS Warranty	13120-6	12/9/2015	KJ	Approved	12/15/2015	RW	12/16/2015	
01720-2		01720	Crack Monitor Specification Sheet	01720-2	12/11/2015	KJ	Approved	12/16/2015	KJ	12/16/2015	
02221-3		02221	Quarry Virgin Source Certification - Sheet Pile Trench Stone Backfill	02221-3	12/11/2015	KJ	Approved	12/16/2015	KJ	12/16/2015	
13120-2		13120	Vapor Management System Drawings and Calculations	13120-2	12/14/2015	KJ	Resubmit with Revisions	12/29/2015	RW	12/29/2015	
13120-2a		13120	Vapor Management System Drawings and Calculations	13120-2a	12/30/2015	KJ	Approved as Noted	12/30/2015	RW	12/30/2015	
			Specification Sheet – Casella CEL-240 Sound Meter		12/21/2015	KJ					Provided for information only - not returned
			Oversized Rock Disposal Facility Permit		12/28/2015	KJ					Provided for information only - not returned
02508-2		02508	Weekly Air Monitoring Report - Week ending 12/25/15	02508-2	1/11/2016	KJ	Resubmit with Revisions	1/12/2016	KJ/PF	1/12/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 12/25/15	02508-2A	1/13/2016	KJ	Approved as Noted	1/18/2016	KJ	1/18/2016	

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02508-2		02508	Weekly Air Monitoring Report - Week ending 12/18/15	02508-2	1/11/2016	KJ	Resubmit with Revisions	1/15/2016	KJ	1/25/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 12/18/15	02508-2A	2/5/2016	KJ					Cover Sheet Only
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 12/18/15	02508-2A	2/16/2016	KJ	Approved	3/4/2016	PF/KJ	3/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 1/8/16	02508-2	2/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/7/2016	
02508-2B		02508	Weekly Air Monitoring Report - Week ending 1/8/16	02508-2B	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 1/15/16	02508-2	2/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/8/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 1/15/16	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 1/22/16	02508-2	2/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/9/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 1/22/16	02508-2A	3/18/2016	KJ	Approved as Noted	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 1/29/16	02508-2	2/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/10/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 1/29/16	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 11/20/15	02508-2	2/1/2016	KJ	Resubmit with Revisions	3/4/2016	PF/KJ	3/4/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 11/20/15	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Revised Weekly Air Monitoring Report - Week ending 11/27/15	02508-2	2/5/2016	KJ	Resubmit with Revisions	3/4/2016	PF/KJ	3/4/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 11/27/15	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 12/4/15	02508-2	2/5/2016	KJ	Resubmit with Revisions	3/4/2016	PF/KJ	3/4/2016	

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02508-2A		02508	Weekly Air Monitoring Report - Week ending 12/4/15	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 12/11/15	02508-2	2/5/2016	KJ	Resubmit with Revisions	3/4/2016	PF/KJ	3/4/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 12/11/15	02508-2A	3/18/2016	KJ	Approved as Noted	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 1/1/16	02508-2	2/5/2016	KJ	Resubmit with Revisions	3/4/2016	PF/KJ	3/4/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 1/1/16	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 2/5/2016	02508-2	2/16/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/7/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 2/5/2016	02508-2A	2/16/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 2/12/2016	02508-2	2/16/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/7/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 2/12/2016	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 2/19/2016	02508-2	3/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/7/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 2/19/2016	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 2/26/2016	02508-2	3/1/2016	KJ	Resubmit with Revisions	3/7/2016	PF/KJ	3/7/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 2/26/2016	02508-2A	3/18/2016	KJ	Approved	4/18/2016	KJ	4/18/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 3/4/2016	02508-2	4/5/2016	KJ	Resubmit with Revisions	5/17/2016	KJ	5/25/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 3/4/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 3/11/2016	02508-2	4/6/2016	KJ	Resubmit with Revisions	5/17/2016	KJ	5/25/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 3/11/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	07/25/216	
02508-2		02508	Weekly Air Monitoring Report - Week ending 3/18/2016	02508-2	4/6/2016	KJ	Resubmit with Revisions	5/17/2016	KJ	5/25/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 3/18/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 3/25/2016	02508-2	4/6/2016	KJ	Resubmit with Revisions	5/17/2016	KJ	5/25/2016	
02508-2A		02508	Weekly Air Monitoring Report - Week ending 3/25/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 4/1/2016	02508-2	4/7/2016	KJ	Resubmit with Revisions	5/17/2016	KJ	5/25/2016	
02508-2A		02508-2A	Weekly Air Monitoring Report - Week ending 4/1/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week Ending 4/8/2016	02508-2	4/18/2016	KJ	Resubmit with Revisions	5/18/2016	KJ	5/25/2016	

URS CORPORATION - Submittal Schedule

Project: COLD SPRING FORMER MANUFACTURED GAS PLANT SITE REMEDIATION
Client/Owner: NYSDEC CONTRACT NO. D009635
Contractor: WATERMARK

URS CORPORATION
257 W. Genesee St.
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(716) 856-5636

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					Date	By	Code	Date	By		
02508-2A		02508-2A	Weekly Air Monitoring Report - Week Ending 4/8/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week Ending 4/15/2016	02508-2	4/20/2016	KJ	Resubmit with Revisions	5/23/2016	KJ	5/25/2016	
02508-2A		02508-2A	Weekly Air Monitoring Report - Week Ending 4/15/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	

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02508-2		02508	Weekly Air Monitoring Report - Week Ending 4/22/2016	02508-2	5/2/2016	KJ	Resubmit with Revisions	5/23/2016	KJ	5/25/2016	
02508-2A		02508-2A	Weekly Air Monitoring Report - Week Ending 4/22/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week Ending 4/29/2016	02508-2	5/4/2016	KJ	Resubmit with Revisions	5/23/2016	KJ	5/25/2016	
02508-2A		02508-2A	Weekly Air Monitoring Report - Week Ending 4/29/2016	02508-2A	6/20/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week Ending 5/6/2016	02508-2	5/13/2016	KJ					Rescinded by Watermark on 05/13/16
02508-2A		02508-2A	Weekly Air Monitoring Report - Week Ending 5/6/2016 REV1	02508-2A	5/13/2016	KJ	Resubmit with Revisions	5/23/2016	KJ	5/25/2016	
02508-2B		02508-2B	Revised Weekly Air Monitoring Report - Week Ending 5/6/2016	02508-2B	6/21/2016	KJ	Approved	7/25/2016	KJ	7/25/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 5/13/2016	02508-2	8/9/2016	KJ	Approved	9/14/2016	KJ	9/15/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 5/20/2016	02508-2	8/9/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 5/20/2016	02508-2A	9/21/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 5/27/2016	02508-2	8/9/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 5/27/2016	02508-2A	9/21/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 6/3/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 6/3/2016	02508-2A	9/21/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 6/10/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 6/10/2016	02508-2A	9/21/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 6/17/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/14/2016	KJ	9/15/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 6/17/2016	02508-2A	9/21/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 6/24/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/21/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 6/24/2016	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 7/1/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/21/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 7/1/2016	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 7/8/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/21/2016	KJ	9/23/2016	

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02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 7/8/2016	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 7/15/2016	02508-2	8/10/2016	KJ	Resubmit with Revisions	9/21/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 7/15/2016	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 10/23/2016	02508-2	8/24/2016	KJ	Resubmit with Revisions	9/22/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 10/23/2016	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 10/30/2015	02508-2	8/24/2016	KJ	Resubmit with Revisions	9/22/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 10/30/2015	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 11/6/2015	02508-2	8/23/2016	KJ	Resubmit with Revisions	9/23/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 11/6/2015	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	Weekly Air Monitoring Report - Week ending 11/13/2015	02508-2	8/23/2016	KJ	Resubmit with Revisions	9/23/2016	KJ	9/23/2016	
02508-2A		02508	Revised Weekly Air Monitoring Report - Week ending 11/13/2015	02508-2A	9/27/2016	KJ	Approved	10/4/2016	KJ	10/4/2016	
02508-2		02508	October 2015 and November 2015 Monthly Air Monitoring and Vibration Monitoring Data	02508-2	12/3/2015	KJ					Provided for information only - not returned
02508-3		02508	December 2015 Monthly Air Monitoring and Vibration Monitoring Data	02508-3	1/14/2016	KJ					Provided for information only - not returned
02508-4		02508	January 2016 Monthly Air Monitoring and Vibration Monitoring Data	02508-4	2/11/2016	KJ					Provided for information only - not returned
02508-5		02508	February 2016 Monthly Air Monitoring and Vibration Monitoring Data	02508-5	3/14/2016	KJ					Provided for information only - not returned
02508-6		02508	March 2016 Monthly Air Monitoring and Vibration Monitoring Data	02508-6	4/14/2016	KJ					Provided for information only - not returned
02508-7		02508	April 2016 Monthly Air Monitoring and Vibration Monitoring Data	02508-7	5/12/2016	KJ					Provided for information only - not returned
			May 2016 Monthly Air Monitoring and Vibration Monitoring Data		8/10/2016	KJ					Provided for information only - not returned
			June 2016 Monthly Air Monitoring and Vibration Monitoring Data		8/10/2016	KJ					Provided for information only - not returned
			July 2016 Monthly Air Monitoring and Vibration Monitoring Data		8/10/2016	KJ					Provided for information only - not returned
02070-3		02070	Demo Debris Certificate of Disposal Letter	2070-3	1/25/2016	KJ					Provided for information only - not returned
01400-4		01400	Flowable Fill Laboratory Testing Results for Material Placed from 12/7/2015 through 12/18/2015		1/25/2016	KJ	Approved	2/23/2016	KJ	2/23/2016	

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01400-6		01400	Flowable Fill Laboratory Testing Results for Material Placed from 01/14/16 through 01/19/16		2/24/2016	KJ	Approved	3/22/2016	KJ	3/22/2016	
01400-5		01400	Analytical Results for Influent/Effluent Samples Collected on 12/10/15 and 01/28/16		2/12/2016	KJ	Resubmit with Revisions	2/17/2016	PF	2/19/2016	
01400-5A		01400	Revised Analytical Reports for Influent/Effluent Samples collected 12-10-2015 and 1-28-2016	01400-5A	4/18/2016	KJ	Approved	4/18/2016	PF	4/18/2016	
02900-1		02900	Geotextile Material		2/29/2016	KJ	Approved	3/17/2016	KJ	3/17/2016	
		01400	Topsoil Testing Results		3/17/2016	PF	Resubmit with Revisions	3/18/2016	PF	3/18/2016	Revised results requested via telephone which clearly specify Specification Section 02900. Noted that nickel and heptachlor were missing.
		02900	Vegetated Soil Testing Results		3/21/2016	PF	Resubmit with Revisions	3/21/2016	PF	3/21/2016	Criteria for several analytes from Part 375-6 Protection of GW criteria were missing. Request for revisions made via e-mail.
		02900	Vegetated Soil Testing Results		4/11/2016	PF	Approved	4/11/2016	PF	4/11/2016 (Retracted on 04/14/16)	Approved via Field Order No. 19 on 04/11/16. Field Order No. 19 retracted by URS on 04/14/16. Request for Complete Submittal Package including Chemical Analytical Results and Demonstration of Compliance with Section 02900 paragraph 2.03(A) made by URS on 04/15/16
02900-2A		02900	Vegetative Soil Analytical Testing Results	02900-2A	5/2/2016	KJ	Approved	6/3/2016	RW/KJ	6/3/2016	
02900-3		02900	Physical Topsoil Sample	02900-3	5/9/2016	KJ	Approved	6/3/2016	RW/KJ	6/3/2016	
02503-1		02503	Draft Site Restoration Plan	02503-1	5/23/2016	KJ	Resubmit with Revisions	6/16/2016	RW/KJ	6/16/2016	
02503-1A		02503	Site Restoration Plan	02503-1A	6/17/2016	KJ	Approved	6/22/2016	RW/KJ	6/22/2016	
02700-1		02700	Submittal of Tree Planting Documentation	02700-1	6/9/2016	KJ	Approved	6/22/2016	RW/KJ	6/22/2016	
02733-1		02733	Draft Well Construction Work Plan	02733-1	5/23/2016	KJ	Resubmit with Revisions	5/31/2016	MG	6/1/2016	
02733-1A		02733	Well Construction Work Plan	02733-1A	6/9/2016	KJ	Approved	6/9/2016	MG	6/9/2016	
02733-2		02733	Boring Logs and Well Development Logs	02733-2	8/16/2016	KJ	Approved	9/14/2016	KJ	9/15/2016	
02733-3		02733	Well Construction Diagrams	02733-3	8/23/2016	KJ	Approved	9/14/2016	KJ	9/15/2016	
02733-4		02733	Field Instrumentation Calibration Forms	02733-4	8/23/2016	KJ	Approved	9/14/2016	KJ	9/15/2016	
01400-3		01400	Documentation Samples DOC_1 through DOC_5 Analytical Reports	01400-3	5/24/2016	KJ	Approved	6/8/2016	PF	6/9/2016	
01400-3		01400	DOC-6 through DOC-8 Final Lab Report	01400-3	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3		01400	DOC-9 Final Lab Report	01400-3	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3		01400	DOC-10 Final Lab Report	01400-3	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3		01400	DOC-11 Final Lab Report	01400-3	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3		01400	DOC-12 and DOC-13 Final Lab Report	01400-3	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3A		01400	Onsite Backfill Material - Final Laboratory Analytical Reports	01400-3A	5/24/2016	KJ	Resubmit with Revisions	6/8/2016	PF	6/9/2016	
01400-3A		01400	Backfill Revised Final Lab Report – Samples BF-1 through BF-7	01400-3A	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	
01400-3A		01400	Backfill Revised Final Lab Report – Samples BF-8 and BF-13	01400-3A	8/1/2016	KJ	Approved	8/4/2016	PF	8/15/2016	

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			ERC.Audit Package 2016 (Facility Permit)		7/12/2015	KJ					Provided for information only - not returned
			Russell Reid Transporters Permits (01-19-16)		7/12/2016	KJ					Provided for information only - not returned
02900-4		02900	Cut sheets and Compliance documentation for permanent seed mixture, fertilizer and straw blanket	02900-4	7/27/2016	KJ	Approved	8/3/2016	RW/KJ	8/3/2016	

APPENDIX N

WEEKLY, SETTLEMENT, CRACK, AND VIBRATION MONITORING REPORTS (ON DVD)

APPENDIX O

WEEKLY VAPOR MANAGEMENT SYSTEM REPORTS (ON DVD)

APPENDIX P

WEEKLY WATER TREATMENT REPORTS (ON DVD)