

**RG&E Pavilion Former MGP Site**  
**GENESEE COUNTY, NEW YORK**

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**Final Engineering Report**

**NYSDEC Site Number: 819024**

**Prepared for:**

Rochester Gas and Electric Corporation  
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**Prepared by:**

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**NOVEMBER 2025**

# CERTIFICATIONS

I, Albert G. Lyons, Jr., P.E., am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Work Plan prepared by Parsons, (Parsons, June 2018) herein referred to as the RAWP, was implemented and that all construction activities were completed in substantial conformance with the Department-approved RAWP.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the RAWP and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan (SMP) has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Albert G. Lyons, Jr., P.E., of Lyons Engineering, DPC; 10 Jones Avenue, Rochester, NY 14608, am certifying as Owner's Designated Site Representative for the site.

074710  
NYS Professional Engineer #

11/18/25  
Date

Albert G. Lyons, Jr.  
Signature

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## LIST OF ACRONYMS

| <b>Acronym</b> | <b>Definition</b>   |
|----------------|---|
| ASP            | Analytical Services Protocol  |
| BCA            | Brownfield Cleanup Agreement  |
| BCP            | Brownfield Cleanup Program  |
| bgs            | Below Ground Surface  |
| BTEX           | Benzene, Toluene, Ethylbenzene, and Xylenes                           |
| CERCLA         | Comprehensive Environmental Response, Compensation, and Liability Act |
| CAMP           | Community Air Monitoring Plan   |
| C/D            | Construction and Demolition   |
| CFR            | Code of Federal Regulations   |
| CLP            | Contract Laboratory Program   |
| COC            | Contaminant of Concern  |
| CP             | Commissioner Policy   |
| DER            | Division of Environmental Remediation                                 |
| EC             | Engineering Control   |
| ECL            | Environmental Conservation Law  |
| ELAP           | Environmental Laboratory Approval Program                             |
| EWP            | Excavation Work Plan  |
| FER            | Final Engineering Report  |
| FSAP           | Field Sampling and Analytical Plan                                    |
| HASP           | Health and Safety Plan  |
| IC             | Institutional Control   |
| IRM            | Interim Remedial Measure  |
| mg/kg          | Milligrams per Kilogram (same as parts per million)                   |
| MGP            | Manufactured Gas Plant  |
| MSVCA          | Multi-site Voluntary Cleanup Agreement                                |
| NAPL           | Non-Aqueous Phase Liquid  |
| NYCRR          | New York Codes, Rules and Regulations                                 |
| NYSDEC         | New York State Department of Environmental Conservation               |
| NYSDOH         | New York State Department of Health                                   |
| OM&M           | Operation, Maintenance and Monitoring                                 |
| OSHA           | Occupational Safety and Health Administration                         |
| PAH            | Polycyclic Aromatic Hydrocarbon                                       |
| PID            | Photoionization Detector  |
| ppm            | Parts per million   |
| PRR            | Periodic Review Report  |
| QA             | Quality Assurance   |
| QAPP           | Quality Assurance Project Plan  |

|       |   |
|-------|---|
| QA/QC | Quality Assurance/Quality Control                           |
| QC    | Quality Control   |
| RAO   | Remedial Action Objective                                   |
| RAWP  | Remedial Action Work Plan                                   |
| RCRA  | Resource Conservation and Recovery Act                      |
| RG&E  | Rochester Gas and Electric Corporation                      |
| RI    | Remedial Investigation                                      |
| RI/FS | Remedial Investigation/Feasibility Study                    |
| ROD   | Record of Decision  |
| RP    | Remedial Party  |
| RSO   | Remedial System Optimization                                |
| SCGs  | Standards, Criteria, and Guidance                           |
| SCO   | Soil Cleanup Objective                                      |
| SMP   | Site Management Plan  |
| SRD   | Supplemental Remedial Design                                |
| SOW   | Statement of Work   |
| SPDES | State Pollutant Discharge Elimination System                |
| SSD   | Sub-slab Depressurization System                            |
| SV    | Soil Vapor  |
| SVI   | Soil Vapor Intrusion  |
| SVOC  | Semi-volatile Organic Compound                              |
| TAL   | Target Analyte List   |
| TCL   | Target Compound List  |
| TCLP  | Toxicity Characteristic Leachate Procedure                  |
| TLM   | Tar-Like Material   |
| TOGS  | Division of Water Technical and Operational Guidance Series |
| USEPA | United States Environmental Protection Agency               |
| UST   | Underground Storage Tank                                    |
| MSVCA | Multi-site Voluntary Cleanup Agreement                      |
| VCP   | Voluntary Cleanup Program                                   |
| VOC   | Volatile Organic Compounds                                  |

# FINAL ENGINEERING REPORT

## 1.0 BACKGROUND AND SITE DESCRIPTION

RG&E entered into a Multi-Site Voluntary Cleanup Agreement (MSVCA) with the New York State Department of Environmental Conservation (NYSDEC) in April 2003, to investigate and, where necessary, remediate seven former MGP sites (including Pavilion, VCP Site No. V00592). In 2018 the NYSDEC terminated the RG&E MSVCA (due to a state-wide mandate for all VCAs) and three sites that had not yet received regulatory closure (including Pavilion) were rolled into a Multi-Site Order On Consent (MSOC) (DEC Index No. CO 8-20180517-48) that became effective June 26, 2018. The Pavilion Site, an approximately three-acre property located in the Town of Pavilion, Genesee County, New York, subsequently was issued a new Site number (Site No. 819024) under the MSOC. The MSOC obligated RG&E to implement a remedial program for hazardous substances that are components of wastes associated with MGP-related operations at the Site.

The NYSDEC approved the Remedial Investigation Report for the RG&E Pavilion Former Manufactured Gas Plant – Property #1252 (Parsons, 2016) on June 28, 2016 and requested that a RAWP be developed for the Site. The RAWP was developed by Parsons Engineering of New York, Inc. (Parsons) and approved by the NYSDEC on June 6, 2018, in the Decision Document. The property was remediated to commercial use and will be used for utility operations.

The Site is located in the County of Genesee, New York, off of New York State Route 63 (also known as Ellicott Street Road) and is legally known and designated on the tax map of the County Clerk of Genesee County as parcel number: Section 16 Block 1 Lot 112. Access to the land-locked Site is through an easement assigned by J.D. Buckley and Son, Inc. (JDB&S, Inc.) (see Figure 1). The Site is an approximately three-acre area and is bounded by agricultural land to the north and east, an agricultural products warehouse and distribution center operated by JDB&S to the south, and railroad tracks to the west (see Figure 2 and Appendix A). A cement/aggregate distribution facility operated by Hanson North America, Inc. exists west of the railroad tracks. The boundaries of the real property comprising the site are more fully described

in the metes and bounds description that is part of the Environmental Easement provided in the Site Management Plan (SMP) (Appendix A).

The Site is relatively flat and surface water in the vicinity of the office building and locker rooms is collected by a series of catch basins and transferred westward to an outlet in a drainage swale adjacent to the railroad property. Shallow drainage swales bordering the Site to the north, west, and east mitigate surface water flow onto the property from adjacent parcels during heavy precipitation events. Historic groundwater elevation gauging of the Site monitoring wells indicate a shallow hydraulic gradient across the Site with groundwater flow in a northwesterly direction toward Oatka Creek. A groundwater contour map is shown in Figure 3.

An electronic copy of this FER with all supporting documentation is included as Appendix I.

## **2.0 SUMMARY OF SITE REMEDY**

### **2.1 REMEDIAL ACTION OBJECTIVES**

As presented in the NYSDEC Decision Document for the site (NYSDEC, 2018), which references the approved Alternative Analysis of the Remedial Action Work (Parsons, 2018), the Remedial Action Objectives (RAOs) for soil and groundwater at the Site are as follows:

#### **2.1.1 Groundwater RAOs**

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.

RAOs for Environmental Protection

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

#### **2.1.2 Soil RAOs**

RAOs for Public Health Protection

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

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

## **2.2 DESCRIPTION OF SELECTED REMEDY**

The Site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Document dated June 6, 2018

The factors considered during the selection of the remedy are those listed in 6 New York Codes, Rules and Regulations (NYCRR) Part 375-1.8. The following are the components of the selected remedy:

1. A remedial program was implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques were implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:
  - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
  - Reducing direct and indirect greenhouse gases and other emissions;
  - Increasing energy efficiency and minimizing use of non-renewable energy;
  - Conserving and efficiently managing resources and materials;
  - Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
  - Maximizing habitat value and creating habitat when possible;
  - Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
  - Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
  - Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings

shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis was completed. The FER for the Remedial Action and the SMP were both completed and approved by the NYSDEC prior to requirements for completing an environmental footprint analysis of the remedy. Every effort was made to retroactively calculate the environmental footprint of the Remedial Action; however, with the Remedial Action completed in May 2019, some details may not be accounted for in the environmental footprint analysis.

The environmental footprint analysis was completed using the USEPA SEFA (Spreadsheets for Environmental Footprint Analysis). Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use were estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, was incorporated into the remedial program, as appropriate. The SEFA results are included in Appendix A of this FER, as part of the revised Site Management Plan (dated July 10, 2025) Appendix I.

2. The demolition and removal of the concrete slab from the former main MGP building, following the demolition and removal of the building by the RG&E facilities group in 2018;
3. The removal and off-Site disposal of visually impacted soils (i.e., grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u), NAPL, and soil that create a nuisance condition, as defined in Commissioner Policy CP-51 Section G) within the limits of excavation of the tar separator area and from beneath the former main MGP building footprint excavation areas identified in Figure 4. The final horizontal and vertical limits of the remedial excavations are presented on Figure 4.

The concrete structures associated with the tar separator were also removed and disposed off-Site;

4. Placement of a Site cover to allow for continued commercial use of the Site. The Site cover consisted of a minimum of one foot of compacted crushed stone placed over a demarcation layer. Site cover material, including any fill material brought to the site, met the SCOs for cover material for the use of the site as set forth in 6 NYCRR Part 375-6.7(d);
5. Based on the soil clean objective of Total SVOCs concentration less than 500 ppm, as established in the Decision Document, and in order to facilitate the installation of the Site cover system, materials across the entire Site, extending to the existing building footprints and the perimeter fence, were excavated to a minimum depth of twelve (12) inches. The final elevations of the cover system approximately match the pre-remedial action elevations and are presented within the Post-Remediation As-Built Survey, provided as part of Appendix B. In addition to soil, the materials removed included portions of the concrete gas holder and relief tank holder foundations and other shallow subsurface features (concrete, abandoned gas pipe etc.) that were encountered within the horizon of the Site cover;
6. Off-Site disposal of excavated materials at a permitted landfill and/or thermal treatment facility;
7. Off-Site disposal of 30,274 gallons of contaminated construction water that was pumped from the work area and containerized on site in temporary tanks;
8. Abandonment of existing monitor well MW-4 (previously damaged) and replacement with new monitoring well MW-4A, located adjacent to the former MGP building;
9. Development and implementation of a SMP for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

10. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site; and
  11. Periodic certification of the institutional and engineering controls listed above.
- .

### **3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS**

The remedy for this Site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

## **4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED**

Remedial activities completed at the Site were conducted in accordance with the NYSDEC Decision Document and the NYSDEC-approved RAWP for the Site, both dated June 2018. All deviations from the RAWP are noted below.

### **4.1 GOVERNING DOCUMENTS**

The governing documents for performance of the remedial action are described in the following sections and listed below:

- NYSDEC Decision Document
- RAWP
- Site Specific Health & Safety Plan (HASP)
- Quality Assurance Project Plan (QAPP)
- Construction Quality Assurance Plan (CQAP)
- Community Air Monitoring Plan (CAMP)
- Remediation Contractor Submittals (Appendix B)

#### **4.1.1 RAWP**

The RAWP, which consisted of the design drawings and associated work plans and was prepared by Parsons, addressed the scope and extent of the remediation per the NYSDEC Decision Document. The means and methods of executing the work were selected by the Remediation Contractor (AECOM) and are described in the Remediation Contractor's Project Execution Plan (PEP) included with the Remediation Contractor's submittals, included herein as Appendix B.

#### **4.1.2 Site Specific Health & Safety Plan (HASP)**

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

Two HASPs were used during the Remedial Action: Neu-Velle LLC., of Rochester, New York (Neu-Velle) prepared a HASP for its own personnel during performance of the Remediation Engineer services. Neu-Velle's HASP was provided as a submittal prior to implementing the Remedial Action and is included herein with the Remediation Engineer Submittals (Appendix C). This HASP set the standards for Neu-Velle Site workers to follow during implementation of their work at the Site. The Remediation Contractor (AECOM) prepared its own HASP for its workers and to regulate overall site safety. AECOM's HASP is included with the Remediation Contractor's Submittals provided in Appendix B. Overall Site safety during the remediation was enforced by AECOM's Health and Safety Officer.

The HASPs were complied with for all remedial and invasive work performed at the Site.

#### **4.1.3 Quality Assurance Project Plan (QAPP)**

The QAPP was prepared by Neu-Velle prior to the Remedial Action and is included with the Remediation Engineer Submittals (Appendix C). The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

#### **4.1.4 Construction Quality Assurance Plan (CQAP)**

The CQAP managed performance of the Remedial Action and tasks through designed and documented QA/QC methodologies applied in the field and in the lab, including the testing, evaluation, documentation of materials, and procedures during implementation of the Remedial Action. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications. The CQAP is presented as Appendix E of the RAWP.

#### **4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)**

The erosion and sediment controls utilized for all remedial construction activities were in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the Site-specific SWPPP (Appendix D of the RAWP) and were performed consistent with the requirements of the RAWP. The means and methods for employing erosion and sediment controls during the remedial action are described in

Remediation Contractor's Project Execution Plan included with the Remediation Contractor's submittals (Appendix B). A drawing depicting erosion and sediment control details is also presented as Sheet C-2029 within Appendix C of the RAWP.

A Notice of Intent was submitted to the NYSDEC Division of Water for informational purposes and file, presented in Appendix D. The NYSDEC Division of Water confirmed that approval was not necessary for the Remedial Action because the project was part of the NYSDEC VCP/MSOC, and therefore was under the oversight of the NYSDEC.

#### **4.1.6 Community Air Monitoring Plan (CAMP)**

Community air monitoring was implemented during intrusive field activities in accordance with the CAMP provided as Appendix A of the RAWP. The CAMP work included measuring organic vapor concentrations using a miniRAE 3000 photoionization detector (PID) and particulate concentrations using a DustTrak-8530 particulate monitor capable of measuring particulate matter less than 10 micrometers in size (PM-10) at one upwind location and two downwind locations. The time-weighted average measurements were recorded over a period of 15-minute intervals. Action levels for organic vapors were 5 parts per million (ppm) above background concentrations for suspending intrusive work activities and 25 ppm above background concentrations for stopping intrusive work activities. Action levels for dust/particulates was 0.1 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) above background concentrations for applying dust suppression techniques and 0.15  $\mu\text{g}/\text{m}^3$  above background concentrations for stopping intrusive field work.

The CAMP results for the remedial action are provided herein in Appendix C.

#### **4.1.7 Contractors Site Operations Plans (SOPs)**

The Remediation Contractor (AECOM) created Site-specific SOPs that provided details on the means and methods to be used in the execution of the remedial action. The SOPs were reviewed for compliance with the RAWP and accepted by the Remediation Engineer and RG&E prior to implementation. The Remediation Contractor's SOP for the remedial action is included herein as Appendix B.

#### **4.1.8 Community Participation Plan**

A Site-specific Community Participation Plan (CPP) was not prepared for this Remedial Action as part of the NYSDEC-approved RAWP. A Notice and a Public Fact Sheet (October

2018) was developed and distributed by the NYSDEC to the Site contact list providing a summary of the remedial construction activities to be implemented at the Site as part of the Remedial Action. These Notices and Public Fact Sheets provided a background of the Site and where to find further information at the Document Repository. The Document Repositories include the following:

NYSDEC Region 8 Office  
Attn: Regina Willis  
6274 E. Avon-Lima Road  
Avon, NY 14414  
Phone: 484-226-2466

Pavilion Public Library  
5 Woodrow Drive  
Pavilion, NY 14525  
Phone: 585-584-8843

## **4.2 REMEDIAL PROGRAM ELEMENTS**

The following sections document the remedial program elements of the Remedial Action.

### **4.2.1 Contractors and Consultants**

AECOM was retained by RG&E to conduct all on-Site construction activities including, but not limited to, compliance with all applicable OSHA health and safety regulations, construction personnel health and safety, implementation of emissions and odor control measures (as necessary), traffic control, site security, excavation, backfill, material handling, scheduling for transportation and disposal, and any other tasks outlined in the RAWP or other Contract Documents. AECOM also employed the following subcontractors:

- Abscope Environmental, Inc. (Abscope) – Provided asbestos abatement and waste transportation and disposal.
- Atlantic Testing Laboratories of Canton, New York (Atlantic Testing) – Provided field compaction and performance testing of backfill materials for imported clean fill.
- C.T. Male - Provided surveying services throughout the project including the pre-construction survey, post-construction as-built and interim surveying services

including recording confirmation sampling points, excavation limits and elevations for various fill and cut layers.

- New York Leak Detection, Inc. (NYLD) - Provided Ground-penetrating radar (GPR) services prior to the remedial action for purposes of identifying underground utilities at the Site.
- RJ Nicometo Electric, Inc. – Provided electrical services related to the electrical connection to the field trailers.
- Jaus Trucking – Transportation of non-MGP-impacted soil waste to Waste Management Inc. (Waste Management) Mill Seat Landfill, Riga, New York (Mill Seat).
- Environmental Services Group, Inc. (ESG) – Transportation and disposal (T&D) of non-hazardous construction water to American Recyclers Company (ARC) in Tonawanda, NY.
- Metallico – Provided T&D of scrap metal recycling materials
- Numerous suppliers provided materials for use during the supplemental remediation and are documented in AECOM’s Submittals provided in Appendix B.

Neu-Velle served as the Engineer of Record for the remedy. Neu-Velle was present on Site during the remedial activities and was responsible for the in-situ waste characterization sampling, CAMP monitoring, meteorological logs, reviewing submittals and reports provided by the Remediation Contractor, collection of analytical samples, post-remediation well abandonment/replacement, management of the drilling subcontractor, and overall field construction management services for the project. Neu-Velle subcontracted the following services:

- Paradigm Environmental Services, Inc. of Rochester, New York (Paradigm) – Provided chemical analytical laboratory services.
- SJB Services, Inc. of Rochester, New York (SJB) – Provided the geotechnical laboratory services.
- Environmental Data Usability of Dansville, New York (EDU) - Provided Data Usability Summary Report (DUSR) service.
- C.T. Male Associates (CT Male) – Provided the Deed Restriction survey.

- On The Mark Utility Locating Services, Inc. (OTM) - Provided GPR services prior to the remedial action for purposes of identifying underground utilities at the Site.
- Trec Environmental, Inc. (Trec) – Provided test pit services for pre-remediation waste characterization sampling and construction services for the removal of an on-Site concrete slab of a demolished MGP building.
- Envoy Environmental Consultants, Inc. (Envoy) – Provided bulk sampling for asbestos-containing materials (ACM), preparation of a variance application to the NYS Department of Labor (NYSDOL) for the open-air abatement of ACM, and performed the asbestos abatement monitoring services.

RG&E contracted directly with the waste disposal facility for treatment and disposal of soils containing NAPL, which were shipped to ESMI of New York, Inc., Fort Edward, NY (ESMI) for thermal desorption service. Limited soils generated during pre-construction activities (*i.e.*, road widening for truck access) and the concrete slab debris were also contracted directly by RG&E and shipped to Waste Management Mill Seat. Transportation of off-Site waste to ESMI was provided by Long Horn Trucking of Fort Plain, NY and concrete slab to Waste Management Mill Seat by Silvarole Trucking Inc. (Silvarole Trucking) of Rochester, NY and GreenTech Topsoil and Trucking (Green Tech) of Rochester, NY. Clean Harbors Environmental Services, Inc. (Clean Harbors) was contracted directly by RG&E to provide “lab pack” services and provide transportation and disposal of a small quantity of portable/handheld metal containers (e.g., gasoline cans) for off-Site disposal.

#### **4.2.2 Site Preparation**

The following activities were performed as part of site preparation for the remediation:

##### 4.2.2.1 Pre-Mobilization and Regulatory Approvals

Prior to mobilization and during execution of work several agency and non-agency review and approvals were required and obtained for the execution of the remedial action.

The major review and approvals from the NYSDEC included:

- Approval of the RAWP. This approval was granted by the NYSDEC Project Manager on June 6, 2018 (Appendix D).

- Review and approval of the Contractor's technical submittals that were identified in the RAWP, including:
  - The Remediation Contractor's PEP,
  - Proposed backfill materials (2-inch minus crushed stone)

Waste characterization activities were performed by Neu-Velle and its subcontractor, Trec, on August 17, 2018. Neu-Velle conducted soil waste characterization sampling to facilitate direct-loading of excavated materials for transportation and off-Site treatment/disposal. A letter report (dated November 15, 2018) summarizing the activities performed and results of the sampling is provided within Appendix C. Summary tables of the analytical results are presented as Tables 1 and 2 of this report.

A pre-construction meeting was held with NYSDEC and all contractors on January 7, 2019, prior to the start of the Remedial Action. Additional activities performed to prepare for the Remedial Action before the pre-construction meeting was held are described in section 4.2.2.2.

Documentation of agency approvals required by the RAWP is included in Appendix D.

All SEQRA requirements and all substantive compliance requirements for attainment of applicable natural resource or other permits were achieved during this Remedial Action.

#### 4.2.2.2 Mobilization and Site Preparation

Neu-Velle and Trec mobilized to the site on October 15, 2018, for the purposes of demolishing and removing a concrete slab and footers from a former on-Site MGP building, in preparation for the Remedial Action. The above grade portions of the building were previously demolished and disposed off-site by the RG&E facilities group earlier in 2018.

The concrete slab and footers were demolished utilizing a hydraulic hammer attachment mounted to an excavator and was stockpiled for off-Site disposal. Demolished concrete was subsequently transported by Silvarole and GreenTech to Waste Management's Mill Seat Landfill in Bergen, NY for disposal (see Appendix F for disposal documentation).

Trec also widened the Site entrance road outside the fence line by boxing out approximately eight-inches (8") by five-feet (5') wide portion of soil adjacent to the existing access road and placing approved road fabric and overlaying crushed stoned to make the Site

accessible for the trucks and heavy equipment to be utilized during the Remedial Action. The soil was disposed off-Site at the Mill Seat landfill.

AECOM mobilized to the Site on February 4, 2019. Site preparation activities completed by AECOM included but were not limited to:

- Performing pre-construction topographic survey (CT Male)
- Mobilizing equipment and materials.
- Setup of the on-Site office trailers.
- Coordination with utility companies (temporary electric service installation).
- Establishing work zones, security fencing, support facilities, decontamination facilities, erosion control measures, and water treatment system.
- Mark out of utilities in and proximal to the excavation areas (UFPO and private utility survey).
- Installing the coir logs and other erosion controls.
- A NYSDEC-approved project sign was posted on the perimeter fence and remained in place during all phases of the Remedial Action.

### **4.2.3 General Site Controls**

The following activities were performed as part of the Site controls for the Remedial Action:

#### **4.2.3.1 Site Security**

Access to the Site was controlled by the existing chain link fence and gate that surrounds the Site as shown on the final As-Built survey (Appendix B). Site entrance and egress was controlled through the existing chain link swing gate.

#### **4.2.3.2 Record Keeping**

A daily Site visitors log was maintained on Site by AECOM. AECOM conducted a daily tailgate safety meeting and planning meeting each morning in concert with Neu-Velle. The daily Site visitor logs and records of daily tailgate safety meetings are provided in Appendix B.

#### 4.2.3.3 Erosion and Sediment Controls

Erosion and sediment control best management practices were implemented at the Site and conformed with local and state standards. Temporary erosion and sediment controls were installed as depicted in the RAWP before any intrusive work was conducted and were maintained throughout the duration of construction. Specific required controls and best management practices are presented in the RAWP.

#### 4.2.3.4 Equipment and Personal Decontamination

A decontamination pad was constructed near the main point of access and egress for the Site in accordance with the RAWP and was used to decontaminate over the road trucks (as needed, excavation equipment, and any other equipment utilized on-Site that came in contact with contaminants. Additional controls were employed to eliminate the spread of contamination from the work areas. The most applicable control was an emphasis on good housekeeping practices (i.e., work clean and stay clean). This was achieved by placing and maintaining clean polyethylene sheeting in the excavator swing zones during truck load out, keeping trucks out of designated contaminated areas while loading, and visually inspecting (i.e., box sidewalls, box tailgate, and tires, etc.) and cleaning trucks with brushes/brooms if needed prior to departing the Site.

A personal decontamination area and boot wash was set up at the entrance and exit point for the Exclusion Zone.

Wastewater generated from the decontamination process was collected and pumped into an on-Site storage tank. Waste characterization samples of the decontamination water, along with the combined construction water, were collected by Neu-Velle prior to off-Site disposal. A summary of sample results for the discharge sample is provided as Table 3.

#### 4.2.3.5 Soil Screening, Stockpiling and Sampling

Material processing methods were detailed in the Contractor's PEP that was prepared by AECOM and contained within Appendix B. Based on the pre-remediation waste characterization performed and subsequent disposal facility approvals, soils were able to be direct loaded for off-Site treatment and disposal or stockpiled as needed for future off-Site disposal. The Subgrade Excavation was sequenced to allow for direct-loading of trucks on the

existing grade so that trucks never entered a contaminated area to be loaded. In addition, once loaded, all trucks utilized the stabilized construction entrance prior to leaving the Site. AECOM constructed and utilized a stockpile/dewatering pad in accordance with the specifications of the RAWP for the Remedial Excavation material. At the completion of the exaction activities, the pad was removed and transported with the remedial waste for off-Site disposal at ESMI.

#### 4.2.3.6 Structural Monitoring

Structural monitoring of on-Site buildings was performed by Neu-Velle and included pre- and post-remediation visual inspections performed under the guidance of a licensed Professional Engineer of New York State. The reports for each of these inspections are provided in Appendix C. Minor damage to the metal siding of the metal-frame storage building occurred during Remedial Action and was repaired by AECOM to the satisfaction of RG&E. Minor damage to the perimeter chain link fence that occurred during the Remedial Action was also repaired by AECOM.

#### **4.2.4 Nuisance controls**

The following activities were performed as part of the nuisance controls for the Remedial Action:

##### 4.2.4.1 Odor and Dust Control

Odors were controlled during the remedial activities as necessary by the use of Bio-Solve®, application of Rusmar® odor suppressant foam and/or by covering impacted soils and excavations with polyethylene sheeting. Dust was controlled through the application of water from the on-Site water truck. Details regarding the usage of dust and odor control methods are documented within the Daily CAMP reports provided in Appendix C.

No complaints relating to dust or odors were received during the Remedial Action.

##### 4.2.4.2 Truck Egress and Routing

The truck entrance/exit route outside of the Site gate was improved with road fabric and crushed stone to support the additional heavy equipment traffic and minimize dust and debris leaving the Site. A stabilized construction entrance was created inside of the fence gate for all construction equipment and waste haulers to utilize prior to exiting the Site.

No complaints related to the truck transportation of excavated materials were received.

#### **4.2.5 CAMP Results**

Air monitoring was implemented by Neu-Velle during intrusive field activities in accordance with the CAMP. Volatile organic compounds (VOCs) and particulates were monitored at one upwind and two downwind locations that varied depending on prevailing wind direction and the location of work activity for a given day.

Based on the CAMP monitoring results, the organic vapor concentrations were below acceptable levels for the entire project, while dust concentrations periodically were above the acceptable levels due to dry surface conditions. Upon occurrence of an exceedance, vapor/dust suppression controls and alternation of field activities were conducted in accordance with Section 4.2.4.1 above. Each day of intrusive work a daily CAMP report was prepared by Neu-Velle that summarized the remedial work performed that day, weather conditions, locations of the CAMP monitoring equipment and CAMP monitoring results. The Daily Camp monitoring reports are included in Appendix C.

#### **4.2.6 Reporting**

Daily reports were prepared and distributed by Neu-Velle for the duration of field activities. These reports included a summary of work progress, photographs of work completed during the day, summary of sampling activities (if any), anticipated future activities, and site conditions. The daily reports prepared by Neu-Velle are included in Appendix C. AECOM also maintained equipment logs, daily safety inspections and sign-in logs, and hot work permits when needed, and are included in the Remediation Contractor Submittals included as Appendix B.

### **4.3 CONTAMINATED MATERIALS REMOVAL**

Based on the RAOs established for the Site, the elements of the selected remedy included excavation and off-Site disposal of contaminant source areas, including:

- grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u);
- non-aqueous phase liquids;
- soil with visual waste material or non-aqueous phase liquids;

- soil containing total SVOCs exceeding 500 ppm; and
- soils that create a nuisance condition, as defined in Commissioner Policy CP-51 Section G.

The soil clean up objectives (SCOs) were chosen to allow for future commercial use of the Site.

#### **4.3.1 Surface Soil/Debris**

Based on the SCO of total SVOCs concentration less than 500 ppm, as established in the Decision Document, and in order to facilitate the installation of the Site cover system, materials across the entire Site, extending to the existing building footprints and the perimeter fence, were excavated to a minimum depth of twelve (12) inches (referred to as the Subgrade Excavation in the RAWP). The final elevations of the cover system approximately match the pre-Remedial Action elevations and are presented within the Post-Remediation As-Built Survey, provided in Appendix B. In addition to soil, the materials removed included portions of the concrete gas holder and relief tank holder foundations and other shallow subsurface features (concrete, abandoned gas pipe etc.) that were encountered within the horizon of the Site cover. Details of the Site cover are provided in Section 4.7. A total of 4,338 cubic yards of material were removed from the Subgrade Excavation.

A survey map with the final excavation elevations is included in the As-Built Survey submittal included in Appendix B.

#### **4.3.2 Subsurface Soil/Debris**

Subsurface soil excavation activities were completed at one targeted location (referred to as the Remedial Excavation in the RAWP) near the former MGP tar separator area, as indicated in the As-Built survey provide in Appendix B. A total of 287.2 cubic yards of material were removed from the Remedial Excavation. Remedial performance/documentation samples were collected by Neu-Velle from select locations during the Remedial Action as depicted on Figure 4. Analytical results for these documentation soil samples are presented in Table 4. The results of the documentation samples indicated that the subsurface Site-specific cleanup objectives of Total SVOCs of 500 ppm were achieved at all locations sampled. Additionally, residual NAPL and tar/tar-like material were removed from within the excavation limits.

### **4.3.3 NAPL**

Soil with visual waste material and NAPL were remediated, to the extent practicable, in on-Site subsurface soil. During remediation, NAPL entrained soil was encountered within the excavation limits of the Remedial Excavation near the former tar separator and was removed and disposed off-Site at the thermal treatment facility (ESMI). Free phase NAPL that was observed in the excavations was blended in-situ with the excavated soil and disposed at ESMI. A total of 372.71 tons of grossly contaminated material were disposed at ESMI.

### **4.3.4 Groundwater**

Groundwater and any other water entering excavations was, collectively referred to as construction water, was pumped into on-Site storage tanks for waste characterization and subsequent off-Site disposal. Two (2) construction water samples were collected from the on-Site storage tanks for the purpose of obtaining approval for off-Site disposal by ARC in Tonawanda, NY via the Buffalo Sewer Authority (BSA). Results of the construction water samples are summarized in Table 3. Additionally, a separate water waste characterization sample was collected directly from water contained in a subsurface concrete vault located within the Remedial Excavation. The results (also presented on Table 3) for this sample indicated that the water was acceptable for disposal at ARC as part of the same waste profile. The vault construction water was pumped directly into a vacuum truck and transported by ESG for disposal by ARC.

### **4.3.5 ACM**

During the Remedial Action, insulated pipe was encountered in the Subgrade Excavation and work activity immediately stopped as the insulation was identified as potential ACM. The insulation was sampled by a certified asbestos inspector (Envoy) and found to contain asbestos. Due to the nature of the asbestos abatement required (open-air excavation), a variance request was written by Envoy and approved by the New York State Department of Labor (NYSDOL), enabling for the proper removal and disposal of the ACM by Abscope. The total area of asbestos contamination was approximately 50 square feet of debris and 12 linear feet of pipe insulation on the intact portions of the pipe, categorized by NYSDOL as an “small-size emergency asbestos abatement project”. A copy of the Variance Report, including sample results, is presented within Appendix C.

#### **4.3.6 Rail Ties**

Former rail ties were encountered in the Subgrade Excavation and segregated on-Site until approvals for off-Site disposal were obtained. The rail ties were part of the former MGP infrastructure at the Site. Upon approval, the rail ties were disposed off-Site at Mill Seat Landfill as a separate waste stream from the other non-hazardous soil/debris.

#### **4.3.7 Portable/Handheld Metal Containers**

As part of the removal of debris and equipment at the Site to facilitate the Subgrade Excavation, several portable/handheld metal containers (e.g., gas cans) were removed from an existing metal flammable storage/safety cabinet and lab packed for off-Site disposal. Clean Harbors was contracted by RG&E to lab pack 8 portable/handheld metal containers for off-Site disposal at the Clean Harbors El Dorado, AR facility.

#### **4.3.8 Suspect-PCB Metal Pipes**

Several inactive buried pipes were encountered during the Remedial Action. These pipes had the potential to contain PCBs on the interior and therefore these pipes were segregated and larger diameter pipes (i.e., three-inch to six-inch pipes) had PCB wipe samples collected by Neu-Velle on April 11, 2019 and submitted to Paradigm for laboratory analysis (USEPA Method 8082). Laboratory results determined that the larger diameter pipes did not contain PCBs and the metal could be recycled with other non-contaminated metals from the Site. A summary table of the laboratory results is provided as Table 12 and the laboratory results are included in Appendix H. Several smaller diameter pipes (i.e., two-inch or less) encountered that could not easily be PCB wipe sampled were also segregated and presumed to contain PCBs. These smaller diameter pipes were capped, wrapped in polyethylene sheeting, and transported to the RG&E Scottsville Road Operations Center for disposal as regulated material (PCB regulated) in the facility's bulk dumpster.

#### **4.3.9 Disposal Details**

Waste soil and debris, concrete, construction water, ACM, and rail ties were generated during the Remedial Action described above. Materials were disposed as described in the Sections below. The locations from which materials were removed are depicted on Figure 4.

Disposal facility permits, and approved waste profiles for each waste stream are attached in Appendix E. Waste manifests and weight tickets are included in electronic format in Appendix F.

#### 4.3.9.1 Soil Disposal Details

Site waste soils for off-Site disposal were managed as two (2) separate waste streams that went to two separate disposal facilities, as described below:

- A total of 372.71 tons of contaminant source areas materials that exhibited one or more of the following were excavated by AECOM and transported off-Site by Longhorn Trucking for disposal at ESMI in Fort Edward, New York for low-temperature thermal desorption (LTTD) treatment from April 17, 2019 through May 1, 2019:
  - grossly contaminated soil, as defined in 6 NYCRR Part 375-1.2(u);
  - NAPL;
  - soil with visual waste material or non-aqueous phase liquids;
  - soil containing total SVOCs exceeding 500 ppm; and
  - soils that create a nuisance condition, as defined in Commissioner Policy CP-51 Section G.
- A total of 8,537.31 tons of MGP-contaminated soil and debris (up to 20%) were excavated by Trec and AECOM and transported off-Site as non-hazardous material by GreenTech and Jaus Trucking for disposal as alternate daily cover (Profile #119712NY) at Mill Seat Landfill in Riga, New York from October 24, 2018 to October 25, 2018 (former building foundation) and February 19, 2019 through May 8, 2019 (Remedial Action).

Waste Characterization samples were collected via the installation of in-situ waste characterization soil borings and collection of soil samples from stockpiles as described in Section (4.2.2.1 above). Waste characterization sample results are presented as Tables 1 and 2.

Tables 5A-C present the load number, manifest number, date of shipment, facility ticket number, disposal facility, weight of each individual load and total quantities of each category of material removed from the Site.

#### 4.3.9.2 Concrete Disposal Details

A total of 1,155.91 tons of concrete slab and structural foundations, associated with the former MGP operations and main MGP building, was broken out by Trec and AECOM and transported off-Site by Silvarole, GreenTech, and Jaus Trucking for disposal as direct burial (Profile #119747NY) at Mill Seat Landfill from October 18, 2018 to October 24, 2018 (former building foundation) and March 8, 2019 to April 24, 2019 (Remedial Action).

Tables 5D and 5E presents the load number, date of shipment, trucking company, manifest number, material description, area of removal, weight of each individual load and total quantities of concrete removed from the Site.

#### 4.3.9.3 Construction Water Disposal Details

A total of 28,274 gallons of construction water were transported by ESG for off-Site disposal by ARC under waste profile X-15000 (included in Appendix E). Table 5F shows the load number, manifest number, date of shipment, trucking company, water source, disposal facility, and volume of constructed water removed from the Site.

#### 4.3.9.4 ACM Disposal Details

The approximately 50 square feet of debris and 12 linear feet of pipe insulation removed by Abscope on April 8 and April 9, 2019 were double wrapped in polyethylene sheeting and transported off-Site by Abscope Environmental and disposed of as regulated asbestos-containing material (RACM) at High Acres Landfill in Fairport, NY on April 9, 2019. A waste manifest is provided in Appendix F and depicts total quantity of RACM as approximately three (3) cubic yards.

#### 4.3.9.5 Rail Ties Disposal Details

A total of 3.32 tons of rail ties (treated wood) were removed by AECOM from the Subgrade Excavation and transported off-Site by Jaus Trucking on April 16, 2019 and May 1, 2019 for disposal as direct burial (Profile # 120513NY) at Mill Seat Landfill.

Tables 5G presents the load number, date of shipment, trucking company, manifest number, material description, area of removal, weight of each individual load and total quantities of waste removed from the Site.

#### 4.3.9.6 Portable/Handheld Metal Containers Disposal Details

A total of eight (8) portable/handheld metal containers used for storage of flammable liquids lab packed by Clean Harbors on March 20, 2019 and transported off-Site for disposal at the Clean Harbors El Dorado, AR facility. The manifest for these containers (included in Appendix F) estimates the total weight of the lab pack at 70 pounds.

#### 4.3.9.7 Suspect-PCB Metal Pipes Disposal Details

Approximately two-cubic yards of the smaller diameter suspect-PCB pipes were transported to the RG&E Scottsville Road Operations Center for disposal as regulated material (PCB regulated) in the facility's bulk dumpster.

### **4.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING**

Confirmatory soil samples were collected from the Remedial Excavation limits during the Remedial Action and the results documented that Total SVOC concentrations were less than 500 ppm. Table 4 summarizes the confirmatory soil sample results. The locations of the confirmatory soil samples are depicted on Figure 4.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program (with the exception of samples collected for waste characterization purposes). These DUSRs are included in Appendix G, and associated raw laboratory reports are provided electronically in Appendix H.

### **4.5 IMPORTED BACKFILL**

Excavated areas, including the Subgrade and Remedial Excavations, were backfilled with imported 2-inch minus crushed stone subbase course type 2 meeting NYSDOT Specifications (Item 733.0402), from Hanson Aggregates, NY, LLC located in Stafford, NY. Additional details on the imported materials are contained in the Contractor Submittal 010-A, "Aggregate Products", provided as part of Appendix B.

Prior to the import of materials to the Site, all imported backfill material were analyzed for the following geotechnical parameters:

- Gradation using ASTM D422

- Moisture/density relationship using ASTM D698.

Geotechnical sample results are summarized in Table 6 and the laboratory reports are provided in Appendix H.

Based on the results of the gradation analysis, chemical analysis was not necessary as all import materials contained less than 10 percent fines passing the number 80 size sieve, in accordance with DER-10 Section 5.4(e)5 and as approved by the NYSDEC Project Manager via email correspondence with Neu-Velle on January 30, 2019.

During the Site preparation activities (October 2018), crushed 2-inch minus crushed stone was imported to the Site for improvements to the Site access road. Although this material was placed outside of the Site fenceline and not used as a backfill material, it was simultaneously sampled for geotechnical and chemical analysis. The chemical analyses included:

- Total TCL VOCs using USEPA Method 8260
- Total TCL SVOCs using USEPA Method 8270
- Total PCBs using USEPA Method 8082
- Pesticides using SW-846 Method 8081
- Herbicides using SW-846 Method 8150
- Total TAL (23) metals using USEPA Series Methods 6000, 7000, and 9000

The geotechnical sample results are included in Table 6 and the chemical sample results are provided as Table 7. The gradation analysis results indicated that the material contained less than 10 percent fines passing the number 80 size sieve and was therefore exempt from the chemical analyses requirements.

Additional materials were imported to the Site in support of the Remedial Action and include:

- #3 Stone – Stabilized Construction Entrance,
- #4 Stone – Stabilized Construction Entrance,
- #1 Washed Stone – Decontamination Pad.

Geotechnical analysis was performed on samples of the #3 and #4 stones and results are provided in Table 6.

Additional information on quantities, dates, and compaction testing for backfill materials are provided below.

#### **4.5.1 Backfill - Imported Crushed Stone**

Approximately 10,501.75 tons of imported 2-inch minus crushed stone subbase course type 2 was placed in the excavations as backfill from March 1, 2019 through May 3, 2019. This material served as a backfill material for the Remedial Excavation and as the Site cover (Subgrade Excavation). The imported crushed stone was placed in 1-foot lifts and compacted with vibration tamping to approximately 90% of the modified proctor on a 100-foot by 100-foot grid. Compaction Testing was performed by Atlantic Testing using Troxler Gauging Equipment following placement of each 1-foot lift. The Field Compaction Reports are provided within the Contractor Submittals in Appendix B. A geotextile fabric demarcation layer was placed under the crushed stone.

Additional 2-inch minus crushed stone subbase course type 2 was imported to improve the Site access/haul road outside of the fence line to support the Remedial Action. Crushed stone was imported in October 2018, February 2019, and March 2019, for a total of approximately 247 tons.

The quantity of imported 2-inch minus crushed stone used at the Site is summarized on Table 8.

#### **4.5.2 Supporting Materials – Imported #3/#4 Stone**

Approximately 29.48 tons of #3 stone and 30.78 tons of #4 Stone were imported on February 19, 2019 and February 13, 2019, respectively, to construct the stabilized construction entrance on the inside of the Site gate.

At completion of the Remedial and Subgrade Excavations, the material was removed, mixed with the final loads of the non-hazardous waste soils (Profile #119712NY) and transported off-Site for disposal at Mill Seat Landfill.

#### **4.5.3 Supporting Materials – Imported #1 Stone**

Approximately 64.83 tons of #1 Stone were imported on April 10, 2019 to construct the decontamination pad.

At completion of the Remedial and Subgrade Excavations, the material was removed, mixed with the final loads of the non-hazardous waste soils (Profile #119712NY) and transported off-Site for disposal at Mill Seat Landfill.

Information pertaining to imported backfill including the load number, date of shipment, ticket number, fill provider, weight of each individual load, total quantities, and weight tickets as well as performance criteria and compaction testing is provided in the Contractor submittals provided in Appendix B.

A figure showing the Site locations where backfill was used at the Site is shown in Figure 4.

## **4.6 CONTAMINATION REMAINING AT THE SITE**

### **4.6.1 Soil**

The excavation and off-Site disposal of soil from within the limits of excavation of the tar separator area and the excavation performed beneath the former main MGP building addressed the source area removal element of the remedy. Confirmatory soil samples were collected from these excavation limits during the remedial action and the results documented that Total SVOC concentrations were less than 500 ppm. Table 4 summarizes the confirmatory soil sample results. The locations of the confirmatory soil samples are depicted on Figure 4.

In addition, the remedy included placement of a Site cover to prevent exposure to remaining residual contamination left at the Site following removal of contaminant source areas and to allow for continued commercial use of the Site. Residual BTEX, acetone, and PAHs remain in inaccessible subsurface soil that is covered by the Site cover system as described below:

- BTEX concentrations in remaining subsurface soil slightly exceed unrestricted use SCOs at multiple locations at the Site, including TP-3, TP-5, TP-9, TP-10, and TP-14 generally at depths of 1.5 to 2.0 feet bgs. These samples were collected during the 2001 Preliminary Site Assessment (PSA) performed by Geomatrix. The highest total BTEX concentration is less than 5 mg/kg at TP-5.

- Acetone concentrations in subsurface soil exceed the unrestricted use SCO at multiple locations at the Site, including SB-05, SB-09, SB-12, TP-15, and TP-16, generally at greater depths of 2.0 to 14.0 feet bgs.
- PAH concentrations in subsurface soil exceed unrestricted use SCOs at multiple locations at the Site, including TP-5, TP-9, TP-10, and TP-12, generally at depths of 1.5 to 2.0 feet bgs. In addition, benzo(a)pyrene slightly exceeded the Commercial use SCO (1.0 mg/kg) at location TP-10 (1.17 mg/kg).
- Inorganic concentrations in subsurface soil exceed unrestricted use SCOs at multiple locations at the Site, including TP-3, TP-9, TP-10, TP-11 and TP-14, generally at depths of 2.0 to 4.0 feet bgs. In addition, locations TP-9 and TP-10 had one or more inorganic concentrations that exceeded Commercial use SCOs.

Table 9 summarizes the historic chemical analysis performed at the Site and locations of soil samples collected that exceed the 6 NYCRR Part unrestricted use SCOs and the commercial use SCOs at the Site after completion of the remedial action. Figure 4 shows the locations of BTEX, PAHs, and acetone at concentrations greater than unrestricted and commercial use SCOs that remain in subsurface soil beneath the Site cover system after completion of the Remedial Action.

#### **4.6.2 Groundwater**

Groundwater samples were collected from four monitoring wells (MW-1 through MW-4) during the PSA, and analyzed for the NYSDEC Spills Technology and Remediation Series (STARS) List of VOCs and SVOCs (i.e., the NYSDEC petroleum guidance document available at the time of the PSA) as well as Resource Conservation and Recovery Act (RCRA) Metals (including total cyanide). Samples from MW-1 were analyzed for additional compounds including nitrate, chlorinated herbicides, and pesticides. During the Remedial Investigation (RI) performed by Parsons in 2015 and 2016, an additional monitoring well was installed (MW-05). Groundwater from all five Site monitoring wells were then sampled in November 2015 and January 2016 and analyzed for VOCs, SVOCs, pesticides, herbicides, PCBs, metals, and cyanide. Analytical groundwater sample results were compared to the Class GA groundwater quality standards and guidance values (SGVs) contained in NYSDEC Technical and Operational

Guidance Series (TOGS) 1.1.1 (NYSDEC, 1998). No VOCs, SVOCs, pesticides, herbicides, or PCBs were detected in groundwater samples during the PSA or RI.

Five inorganic compounds were detected in Site groundwater samples at concentrations above their respective Class GA groundwater quality SGVs (iron, magnesium, manganese, selenium, and sodium); however, these inorganic constituents are not typical indicators of past MGP activities. Sample analytical results for cyanide (a typical indicator of past MGP activities) indicated all detected concentrations were below the Class GA groundwater quality SGVs.

Tables 10 and 11, extracted from the RIR (Parsons 2016), summarize the results of all samples of groundwater during the two rounds of sampling performed during the RI. Additional groundwater sampling completed as part of the Monitoring and Sampling Plan included with the SMP that will be performed as part of the post-Remedial Action monitoring will provide a better understanding of remaining potential groundwater contamination at the Site.

#### **4.6.3 Soil Vapor**

There are currently four buildings within the footprint of the Site: the office building; the locker room building, the training building, and the gas regulator building. Soil vapor sampling was not conducted due to the shallow groundwater table elevation at the Site. The office building is the only building that is regularly occupied. The training building and the locker room buildings are only periodically occupied. The gas regulator building is not meant for extended human occupancy. However, prior to the construction of any new enclosed structures located within the Site or should the use of the existing buildings change, an SVI evaluation will be conducted to evaluate whether any mitigation measures are necessary to eliminate potential exposure to vapors in the structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation.

Provisions for an SVI evaluation shall be evaluated pursuant to section 4.3.3 of the SMP in consultation with the NYSDEC and NYSDOH, and/or shall include an evaluation of future building use and design requirements for proposed new buildings at the property (e.g., installation of a vapor barrier or sub-slab depressurization system).

Since residual contaminated soil remains beneath the Site after completion of the

Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the SMP (Appendix A) approved by the NYSDEC.

#### **4.7 SITE COVER SYSTEM**

Exposure to remaining contamination in soil/fill at the Site is prevented by a cover system placed over the Site. This cover system is comprised of a minimum of 12 inches of crushed stone placed over a demarcation layer and the concrete building slabs from the existing remaining buildings at the Site. Figure 5 presents the location of the Site cover system. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix A of the SMP.

#### **4.8 OTHER ENGINEERING CONTROLS**

Since remaining residual contaminated soil remains beneath the Site after completion of the remediation, Engineering Controls (ECs) are required to protect human health and the environment. The Site has the following primary ECs, as described in the following subsections.

##### **4.8.1 Site Cover System**

Described in Section 4.7 above.

##### **4.8.2 Site Fencing**

Perimeter Site fencing will be maintained surrounding the Site to limit uncontrolled public access. Fencing will be inspected annually as indicated in the SMP.

Procedures for monitoring, operating, and maintaining the ECs for the Site are provided in the Operation and Maintenance Plan in Sections 4 and 5 of the SMP. The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

#### **4.9 INSTITUTIONAL CONTROLS**

The Site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the ECs; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Commercial Use as that term is defined in 6 NYCRR Part 375-1.8(g)(2)(iii) or Industrial Use as that term is defined in 6 NYCRR Part 375-1.8(g)(2)(iv). Land use also will be subject to local zoning laws.

Adherence to these Institutional Controls (ICs) on the Site is required by the environmental easement and will be implemented under the SMP for the Site (Appendix A). ICs identified in the environmental easement may not be discontinued without an amendment to or extinguishment of the environmental easement. The IC boundaries (the RG&E property lines) are shown in the environmental easement's Survey Map provided in Appendix A.

The environmental easement for the Site was executed by the Department on March 6<sup>th</sup>, 2024, and filed with the Genesee County Clerk on March 21, 2024. The County Recording Identifier number for this filing is Instrument #: DE2024-394. A copy of the easement and proof of filing is provided in Appendix A.

#### **4.10 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN**

The Remedial Action achieved the goals set forth in the RAWP and did not deviated from the overall design of the RAWP. There were several minor deviations and unforeseen activities that were not specified in the RAWP, listed below:

- The RAWP had planned for the main MGP building to remain; however, following the approval of the RAWP, the decision was made to demolish the building and as a result of the demolition, it made sense to remove the associated building slab that would impede the Site cover system. The removal of the former main MGP building slab was part of the pre-mobilization activities described in section 4.2.2.2 of this report.
- The RAWP Design Drawings placed the stabilized construction entrance on the access road outside of the fence line gate; however, the stabilized construction entrance was re-located inside of the fence line by AECOM to allow for RG&E employee access to the

Site as it was an active operations center and the #3 and #4 stones utilized in the stabilized construction entrance would have impeded access for some employee vehicles. All truck traffic was routed through the stabilized construction entrance as planned.

- Although the RAWP stated that uncontaminated concrete encountered within the top one-foot final grade as part of the Site cover system, the Department requested at the pre-construction meeting that all concrete be removed in the top one-foot of the Site cover system. This resulted in removal of the upper portions of the former gas holder slabs on the north side of the Site. This deviation of the RAWP was achieved with one small potential area in which some concrete from the former gas holder may encroach the one-foot of Site cover system by a couple of inches for the purposes of preserving structural integrity of the adjacent Training building. This area is denoted on Figure 4.
- The RAWP and Decision Document depicted excavation up to the perimeter fence. RG&E replaced the perimeter fence in entirety after the RAWP was approved but before the Remedial Action was implemented. The new fence alignment was placed outside the limits of the old fence, and therefore when the excavation survey limits were staked out at the start of the Remedial Action, it did not line up with the new fence location. AECOM also placed sediment and erosion control waddles inside the fence that precluded access right up to the fence. AECOM proceeded with Site cover system installation on the basis of the survey but the Department requested that the Site cover system extend up to the existing (new) fence line as written into the Decision Document. As a result, AECOM went back and hand-excavated (use of small, mechanized equipment) the perimeter strip that was missed because of how the excavation survey was laid out (at the old fence location).
- A monitoring well (MW-4) was found to be damaged from previous Site activities and in need of abandonment and replacement. After completion of the Remedial Action, the monitoring well was abandoned-in-place in accordance with the Department's CP-43 and a replacement well (MW-4A) was installed on July 29, 2019 by Nothnagle Drilling, with oversight provided by Neu-Velle. A letter report documenting these activities, and includes a Site figure, Well Decommissioning Record, monitoring well installation log, and a monitoring well development log, is provided as part of Appendix C.

- As discussed in section 4.3 above, several inactive buried pipes were encountered during the Remedial Action. These pipes had the potential to contain PCBs on the interior and therefore these pipes were segregated and larger diameter pipes (i.e., three-inch to six-inch pipes) had PCB wipe samples collected by Neu-Velle on April 11, 2019 and submitted to Paradigm for laboratory analysis (USEPA Method 8082). Laboratory results determined that the larger diameter pipes did not contain PCBs and the metal could be recycled with other non-contaminated metals from the Site. A summary table of the laboratory results is provided as Table 12 and the laboratory results are included in Appendix H. Several smaller diameter pipes (i.e., two-inch or less) encountered that could not easily be PCB wipe sampled were also segregated and presumed to contain PCBs. These smaller diameter pipes were transported to the RG&E Scottsville Road Operations Center for disposal as regulated material (PCB regulated) in the facility's bulk dumpster.

## **5.0 REFERENCES**

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- a. Includes Survey Map, Metes and Bounds
- b. Includes Environmental Easement

### B. Remediation Contractor (AECOM) Submittals

*Note: Italicized Submittals are not included but listed as they were previously designated but not necessary for the project. Only Final submittals are presented.*

- a. Submittal Log
- b. Submittal 1B – Project Site Specific HASP
- Submittal 2A2 – Odor Control Products
- Submittal 2B – Project Execution Plan
- Submittal 3 – SWPPP (See Appendix D of RAWP)*
- Submittal 4A – SWPPP Contractor Certification
- Submittal 5 – SWPPP Inspection Reports
- Submittal 6 – Contractor Field Construction Reporting
- Submittal 7A – Dig Safe Report and Utility Investigation
- Submittal 8A - Coir logs Product Data
- Submittal 9 – Silt Fence Product Data (Not used)*
- Submittal 10A – Aggregate Source Information and Product Data
- Submittal 11A1 – Geotextiles Product Data
- Submittal 11A2 – Geomembrane Product Data
- Submittal 12A – Demarcation Layer Product Data
- Submittal 13A1 – Field Compaction Report #1
- Submittal 13A2 – Field Compaction Report #2
- Submittal 14 – Disposal Documentation (See Appendix F)*
- Submittal 15A – As-Built Drawings:
  - Pre-Construction Topo Survey
  - Final Excavation Survey
  - Post-Construction Final As-Built Survey
- Submittal 16A – Pre-Construction Survey Requirements
- Submittal 17A – Project Sign

### C. Remediation Engineer (Neu-Velle) Submittals

- a. Health and Safety Plan (HASP)
  - b. Quality Assurance Project Plan (QAPP)
  - c. Daily CAMP Reports
  - d. Daily Reports (includes photographic logs)
  - e. Waste Characterization Report November 2018
  - f. Asbestos Abatement Variance Report March 2019
  - g. Monitoring Well Repair Letter Report September 2019
  - h. Pre-Construction Inspection Report
  - i. Post-Construction Inspection Report
- D. Remediation-Related Approvals
- a. NYSDEC RAWP Approval Letter and Decision Document
  - b. Parsons RAWP and Decision Document Acknowledgment Letter
  - c. SWPPP Notice of Intent – Informational Purposes Only
- E. TSDF Permits and Waste Profiles
- F. Waste Manifests and Weight Tickets
- G. Data Usability Summary Reports (DUSRs)
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  - c. Non-Hazardous Soil Disposal at Mill Seat Landfill – Remedial Action 2019
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| Table 1 - ESMI Waste Characterization Analytical Results |       |                                 |  |  |  |
|--|-------|---------------------------------|--|--|--|
| Target Analyte   | Units | Waste Characterization Criteria | WC-S-11(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-12(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-13(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) |
| <b>Total Metals</b>                                      |       |                                 |  |  |  |
| Aluminum   | mg/Kg | Results Only                    | 6690   | 1570   | 9770   |
| Antimony   | mg/Kg | Results Only                    | ND<3.52  | 2.02 J   | ND<3.63  |
| Arsenic  | mg/Kg | Results Only                    | 10.6   | 9.46   | 4.28   |
| Barium   | mg/Kg | Results Only                    | 55.4   | 23.2   | 70.1   |
| Beryllium  | mg/Kg | Results Only                    | 0.405  | ND<0.265   | 0.512  |
| Cadmium  | mg/Kg | Results Only                    | 1.13   | 1.02   | 1.06   |
| Calcium  | mg/Kg | Results Only                    | 29200  | 188000   | 3700   |
| Chromium   | mg/Kg | Results Only                    | 9.93   | 6.79   | 13.3   |
| Cobalt   | mg/Kg | Results Only                    | 4.90   | 1.67 J   | 4.69   |
| Copper   | mg/Kg | Results Only                    | 19.4   | 13.6   | 13.8   |
| Cyanide, Total   | mg/Kg | Results Only                    | 0.576 J  | 5.49   | ND<0.568   |
| Iron   | mg/Kg | Results Only                    | 19600  | 14800  | 24600  |
| Lead   | mg/Kg | Results Only                    | 23.0   | 29.6   | 11.8   |
| Magnesium  | mg/Kg | Results Only                    | 2980   | 6580   | 2510   |
| Manganese  | mg/Kg | Results Only                    | 834  | 127  | 359  |
| Mercury  | mg/Kg | Results Only                    | 0.0629   | 0.110  | 0.0618   |
| Nickel   | mg/Kg | Results Only                    | 14.4   | 7.8  | 14.1   |
| Potassium  | mg/Kg | Results Only                    | 763  | 468  | 936  |
| Selenium   | mg/Kg | Results Only                    | 1.02 J   | ND<5.30  | ND<1.21  |
| Silver   | mg/Kg | Results Only                    | 0.365 J  | ND<0.530   | 0.842  |
| Sodium   | mg/Kg | Results Only                    | 233  | 163  | 136 J  |
| Thallium   | mg/Kg | Results Only                    | 2.01   | 8.45   | ND<1.51  |
| Vanadium   | mg/Kg | Results Only                    | 15.7   | 6.16   | 25.6   |
| Zinc   | mg/Kg | Results Only                    | 70   | 32.8   | 93.1   |
| <b>VOCs</b>  |       |                                 |  |  |  |
| 1,1,1-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,1,2,2-Tetrachloroethane                                | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,1,2-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,1-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,1-Dichloroethylene                                     | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,2,4-Trichlorobenzene                                   | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| 1,2-Dibromo-3-Chloropropane                              | mg/Kg | Results Only                    | ND < 0.0983                                      | ND < 0.0318                                      | ND < 0.0773                                      |
| 1,2-Dibromoethane  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,2-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,2-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,2-Dichloropropane                                      | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,3-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,4-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| 1,4-dioxane  | mg/Kg | Results Only                    | ND < 0.197                                       | ND < 0.0637                                      | ND < 0.197                                       |
| 2-Butanone   | mg/Kg | Results Only                    | ND < 0.0983                                      | ND < 0.0318                                      | 0.043 J  |
| 2-Hexanone   | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| 4-Methyl-2-Pentanone                                     | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| Acetone  | mg/Kg | Results Only                    | 0.443  | 0.0219 J   | 0.242  |
| Benzene  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Bromochloromethane                                       | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| Bromodichloromethane                                     | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Bromoforn  | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| Bromomethane   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Carbon Disulfide   | mg/Kg | Results Only                    | 0.012 J  | ND < 0.0064                                      | ND < 0.0155                                      |
| Carbon Tetrachloride                                     | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Chlorinated Fluorocarbon (freon 113)                     | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Chlorobenzene  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Chloroethane   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Chloroform   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Chloromethane  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| cis-1,2-Dichloroethylene                                 | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| cis-1,3-Dichloropropylene                                | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Cyclohexane  | mg/Kg | Results Only                    | ND < 0.0983                                      | ND < 0.0318                                      | ND < 0.0773                                      |
| Dibromochloromethane                                     | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Dichlorodifluoromethane                                  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Ethylbenzene   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Isopropylbenzene   | mg/Kg | Results Only                    | 0.0893   | ND < 0.0064                                      | 0.059  |
| m&p-Xylene   | mg/Kg | Results Only                    | 0.0562   | ND < 0.0064                                      | 0.0536   |
| Methyl Acetate   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Methyl tert-Butyl ether                                  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Methylcyclohexane  | mg/Kg | Results Only                    | 128  | ND < 0.0064                                      | 0.118  |
| Methylene chloride                                       | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| o-Xylene   | mg/Kg | Results Only                    | 0.0549   | ND < 0.0064                                      | 0.0461   |
| Styrene  | mg/Kg | Results Only                    | ND < 0.0492                                      | ND < 0.0159                                      | ND < 0.0386                                      |
| Tetrachloroethene  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Toluene  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| trans-1,2-Dichloroethylene                               | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| trans-1,3-Dichloropropylene                              | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Trichloroethylene  | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Trichlorofluoromethane                                   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Vinyl Chloride   | mg/Kg | Results Only                    | ND < 0.0197                                      | ND < 0.0064                                      | ND < 0.0155                                      |
| Xylene (Total)   | mg/Kg | Results Only                    | 0.1111   | 0  | 0.0997   |
| Total BTEX   | mg/Kg | Results Only                    | 0.1111   | 0  | 0.0997   |

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| Table 1 - ESMI Waste Characterization Analytical Results |       |                                 |  |  |  |
|--|-------|---------------------------------|--|--|--|
| Target Analyte   | Units | Waste Characterization Criteria | WC-S-11(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-12(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-13(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) |
| <b>SVOCs</b>   |       |                                 |  |  |  |
| 1,1'-Biphenyl  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 1,2-Benzphenanthracene (chrysene)                        | mg/Kg | Results Only                    | <b>0.9</b>                                       | <b>0.368</b>                                     | <b>0.378</b>                                     |
| 2,2'-oxybis(1-Chloropropane)                             | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,4,5-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,4,6-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,4-Dichlorophenol                                       | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,4-Dimethylphenol                                       | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,4-Dinitrophenol  | mg/Kg | Results Only                    | ND < 1.310                                       | ND < 1.180                                       | ND < 1.310                                       |
| 2,4-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2,6-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2-Chloronaphthalene                                      | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2-Chlorophenol   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2-Methylnaphthalene                                      | mg/Kg | Results Only                    | <b>0.874</b>                                     | ND < 0.295                                       | <b>0.613</b>                                     |
| 2-Methylphenol   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 2-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 3&4-Methylphenol   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 3,3'-Dichlorobenzidine                                   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 3-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4,6-Dinitro-2-Methylphenol                               | mg/Kg | Results Only                    | ND < 0.656                                       | ND < 0.591                                       | ND < 0.657                                       |
| 4-Bromophenyl Phenyl Ether                               | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4-chloro-3-Methylphenol                                  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4-Chloroaniline  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4-Chlorophenyl Phenyl Ether                              | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| 4-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Acenaphthene*  | mg/Kg | Results Only                    | <b>0.809</b>                                     | <b>0.34</b>                                      | <b>0.358</b>                                     |
| Acenaphthylene*  | mg/Kg | Results Only                    | <b>0.236 J</b>                                   | <b>0.329</b>                                     | ND < 0.328                                       |
| Acetophenone   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Anthracene*  | mg/Kg | Results Only                    | <b>1.48</b>                                      | <b>0.264 J</b>                                   | <b>0.584</b>                                     |
| Atrazine   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Benz(a)anthracene*                                       | mg/Kg | Results Only                    | <b>0.882</b>                                     | <b>0.347</b>                                     | <b>0.393</b>                                     |
| Benzaldehyde   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Benzo(a)pyrene*  | mg/Kg | Results Only                    | <b>0.392</b>                                     | <b>0.273 J</b>                                   | <b>0.229 J</b>                                   |
| Benzo(b)fluoranthene*                                    | mg/Kg | Results Only                    | <b>0.321 J</b>                                   | <b>0.224 J</b>                                   | <b>0.193 J</b>                                   |
| Benzo(g,h,i)perylene*                                    | mg/Kg | Results Only                    | <b>0.263 J</b>                                   | <b>0.267 J</b>                                   | <b>0.178 J</b>                                   |
| Benzo(k)fluoranthene*                                    | mg/Kg | Results Only                    | <b>0.341</b>                                     | <b>0.172 J</b>                                   | ND < 0.328                                       |
| Benzyl Butyl Phthalate                                   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| bis(2-Chloroethoxy)Methane                               | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| bis(2-chloroethyl)ether                                  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| bis(2-Ethylhexyl)Phthalate                               | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Caprolactam  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Carbazole  | mg/Kg | Results Only                    | <b>0.183 J</b>                                   | ND < 0.295                                       | ND < 0.328                                       |
| Dibenz(a,h)anthracene*                                   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Dibenzofuran   | mg/Kg | Results Only                    | <b>0.31 J</b>                                    | ND < 0.295                                       | ND < 0.328                                       |
| Diethyl Phthalate  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Dimethyl Phthalate                                       | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| di-n-Butyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| di-n-Octyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Fluoranthene*  | mg/Kg | Results Only                    | <b>2.4</b>                                       | <b>0.689</b>                                     | <b>0.982</b>                                     |
| Fluorene*  | mg/Kg | Results Only                    | <b>1.38</b>                                      | <b>0.176 J</b>                                   | <b>0.721</b>                                     |
| Hexachlorobenzene  | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Hexachlorobutadiene                                      | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Hexachlorocyclopentadiene                                | mg/Kg | Results Only                    | ND < 1.310                                       | ND < 1.180                                       | ND < 1.310                                       |
| Hexachloroethane   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Indeno(1,2,3-c,d)pyrene*                                 | mg/Kg | Results Only                    | <b>0.26 J</b>                                    | <b>0.216 J</b>                                   | ND < 0.328                                       |
| Isophorone   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Naphthalene*   | mg/Kg | Results Only                    | <b>0.396</b>                                     | ND < 0.295                                       | <b>0.217 J</b>                                   |
| Nitrobenzene   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| n-Nitroso-di-n-Propylamine                               | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| n-Nitrosodiphenylamine                                   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Pentachlorophenol  | mg/Kg | Results Only                    | ND < 0.656                                       | ND < 0.591                                       | ND < 0.657                                       |
| Phenanthrene*  | mg/Kg | Results Only                    | <b>5.68</b>                                      | <b>0.554</b>                                     | <b>2.26</b>                                      |
| Phenol   | mg/Kg | Results Only                    | ND < 0.328                                       | ND < 0.295                                       | ND < 0.328                                       |
| Pyrene*  | mg/Kg | Results Only                    | <b>2.72</b>                                      | <b>1.33</b>                                      | <b>1.15</b>                                      |
| Total PAHs   | mg/Kg | Results Only                    | <b>16.5</b>                                      | <b>3.59</b>                                      | <b>6.45</b>                                      |
| <b>Total Petroleum Hydrocarbons (TPH)</b>                |       |                                 |  |  |  |
| Gasoline Range Organics (GROs)                           | mg/Kg | Results Only                    | <b>26.9</b>                                      | <b>22.0</b>                                      | ND<13.0  |
| Diesel Range Organics (DROs)                             | mg/Kg | Results Only                    | <b>1770</b>                                      | <b>874</b>                                       | <b>808</b>                                       |

**Table 1 - ESMI Waste Characterization Analytical Results**

| Target Analyte  | Units  | Waste Characterization Criteria | WC-S-11(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-12(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) | WC-S-13(0-5')<br>8/17/2018<br>(Cyanide 10/18/18) |
|---|--------|---------------------------------|--|--|--|
| <b>Hazardous Waste Criteria (Totals - Rule of 20)</b> |        |                                 |  |  |  |
| Arsenic   | mg/Kg  | 100                             | <b>10.6</b>                                      | <b>9.46</b>                                      | <b>4.28</b>                                      |
| Barium  | mg/Kg  | 2,000                           | <b>55.4</b>                                      | <b>23.2</b>                                      | <b>70.1</b>                                      |
| Cadmium   | mg/Kg  | 20                              | <b>1.13</b>                                      | <b>1.02</b>                                      | <b>1.06</b>                                      |
| Chromium  | mg/Kg  | 100                             | <b>9.93</b>                                      | <b>6.79</b>                                      | <b>13.3</b>                                      |
| Lead  | mg/Kg  | 100                             | <b>23.0</b>                                      | <b>29.6</b>                                      | <b>11.8</b>                                      |
| Mercury   | mg/Kg  | 4                               | <b>0.0629</b>                                    | <b>0.110</b>                                     | <b>0.0618</b>                                    |
| Selenium  | mg/Kg  | 20                              | <b>1.02 J</b>                                    | ND   | ND   |
| Silver  | mg/Kg  | 100                             | <b>0.365 J</b>                                   | ND   | <b>0.842</b>                                     |
| Endrin  | mg/Kg  | 0                               | NT   | NT   | NT   |
| Lindane   | mg/Kg  | 8                               | NT   | NT   | NT   |
| Methoxychlor  | mg/Kg  | 200                             | NT   | NT   | NT   |
| Toxaphene   | mg/Kg  | 10                              | NT   | NT   | NT   |
| 2,4-D   | mg/Kg  | 200                             | NT   | NT   | NT   |
| 2,4,5-TP  | mg/Kg  | 20                              | NT   | NT   | NT   |
| Benzene   | mg/Kg  | 10                              | ND   | ND   | ND   |
| Carbon tetrachloride                                  | mg/Kg  | 10                              | ND   | ND   | ND   |
| Chlordane   | mg/Kg  | 1                               | NT   | NT   | NT   |
| Chlorobenzene   | mg/Kg  | 2,000                           | ND   | ND   | ND   |
| Chloroform  | mg/Kg  | 120                             | ND   | ND   | ND   |
| o-Cresol  | mg/Kg  | 4,000                           | NT   | NT   | NT   |
| m-Cresol  | mg/Kg  | 4,000                           | NT   | NT   | NT   |
| p-Cresol  | mg/Kg  | 4,000                           | NT   | NT   | NT   |
| Cresol  | mg/Kg  | 4,000                           | NT   | NT   | NT   |
| 1,4-Dichlorobenzene                                   | mg/Kg  | 150                             | ND   | ND   | ND   |
| 1,2-Dichloroethane                                    | mg/Kg  | 10                              | ND   | ND   | ND   |
| 1,1-Dichloroethylene                                  | mg/Kg  | 14                              | ND   | ND   | ND   |
| 2,4-Dinitrotoluene                                    | mg/Kg  | 3                               | ND   | ND   | ND   |
| Heptachlor (and epoxide)                              | mg/Kg  | 0                               | NT   | NT   | NT   |
| Hexachlorobenzene                                     | mg/Kg  | 3                               | ND   | ND   | ND   |
| Hexachlorobutadiene                                   | mg/Kg  | 10                              | ND   | ND   | ND   |
| Hexachloroethane                                      | mg/Kg  | 60                              | ND   | ND   | ND   |
| Methyl ethyl ketone (2-butanone)                      | mg/Kg  | 4,000                           | ND   | ND   | <b>0.043 J</b>                                   |
| Nitrobenzene  | mg/Kg  | 40                              | ND   | ND   | ND   |
| Pentachlorophenol                                     | mg/Kg  | 2,000                           | ND   | ND   | ND   |
| Pyridine  | mg/Kg  | 100                             | NT   | NT   | NT   |
| Tetrachloroethylene                                   | mg/Kg  | 14                              | ND   | ND   | ND   |
| Trichloroethylene                                     | mg/Kg  | 10                              | ND   | ND   | ND   |
| 2,4,5-Trichlorophenol                                 | mg/Kg  | 8,000                           | ND   | ND   | ND   |
| 2,4,6-Trichlorophenol                                 | mg/Kg  | 40                              | ND   | ND   | ND   |
| Vinyl chloride  | mg/Kg  | 4                               | ND   | ND   | ND   |
| <b>PCBs</b>   |        |                                 |  |  |  |
| Aroclor-1016  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1221  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1232  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1242  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1248  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1254  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1260  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1262  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| Aroclor-1268  | mg/Kg  | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| PCBs (Total)  | <50    | Results Only                    | ND < 0.0335                                      | ND < 0.0308                                      | ND < 0.0339                                      |
| <b>Other Parameters</b>                               |        |                                 |  |  |  |
| Percent Sulfur  | %      | Results Only                    | ND < 0.05  | <b>0.13</b>                                      | ND < 0.05  |
| British Thermal Unit (BTU)                            | btu/lb | Results Only                    | ND < 500   | ND < 500   | ND < 500   |
| Percent Moisture                                      | %      | Results Only                    | <b>18.0</b>                                      | <b>13.9</b>                                      | <b>18.8</b>                                      |

- Notes:**
1. mg/Kg indicates milligram per kilogram.
  2. mg/L indicates milligram per liter.
  3. NT indicates not tested.
  4. ND indicates non-detect.
  5. VOCs indicates volatile organic compounds.
  6. SVOCs indicates semi-volatile organic compounds.
  7. Hazardous waste characteristic criteria from Toxicity Characteristic Leaching Procedure (TCLP) and value shown is criteria multiplied by 20.
  8. PCBs indicates polychlorinated biphenyls.
  9. \* Denotes polycyclic aromatic hydrocarbon (PAH).
  10. Bold text indicates detected result above reporting limit.
  11. Highlighted text indicates exceedance of hazardous waste criteria.
  12. "J" - Result estimated between the quantitation limit and half the quantitation limit.

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |   |   |  |   |   |
|--|-------|---------------------------------|---|---|--|---|---|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-1 (0-1')<br>8/17/2018<br>183776-01<br>1832541-01 | WC S-2 (0-1')<br>8/17/2018<br>183776-02<br>1832541-02 | WC S-3 (0-1')<br>8/17/2018<br>183776-03A<br>1832541-03 | WC S-4 (0-1')<br>8/17/2018<br>183776-04<br>1832541-04 | WC S-5 (0-1')<br>8/17/2018<br>183776-05<br>1832541-05 |
| <b>Total Metals</b>                                      |       |                                 |   |   |  |   |   |
| Aluminum   | mg/Kg | Results Only                    | 2,950   | 1,840   | 1,270  | 5,640   | 7,650   |
| Antimony   | mg/Kg | Results Only                    | ND<3.05   | 4.96  | ND<3.97  | 4.44  | ND<3.24   |
| Arsenic  | mg/Kg | Results Only                    | 3.86  | 30.0  | 18.2   | 15.4  | 5.03  |
| Barium   | mg/Kg | Results Only                    | 21.9  | 82.9  | 52.3   | 99.9  | 91.7  |
| Beryllium  | mg/Kg | Results Only                    | 0.176 J   | 0.808   | 0.271 J  | 0.347   | 0.438   |
| Cadmium  | mg/Kg | Results Only                    | 0.769   | 1.05  | 0.523  | 4.01  | 1.14  |
| Calcium  | mg/Kg | Results Only                    | 158,000   | 2,130   | 2,790  | 64,300  | 36,000  |
| Chromium   | mg/Kg | Results Only                    | 11.0  | 6.99  | 6.51   | 10.7  | 11.8  |
| Cobalt   | mg/Kg | Results Only                    | 2.77  | 4.12  | 3.59   | 8.26  | 4.33  |
| Copper   | mg/Kg | Results Only                    | 12.2  | 64.2  | 7.30   | 39.1  | 28.8  |
| Iron   | mg/Kg | Results Only                    | 11,200  | 24,700  | 12,000   | 68,700  | 16,500  |
| Lead   | mg/Kg | Results Only                    | 29.2  | 210   | 14.4   | 126   | 88.7  |
| Magnesium  | mg/Kg | Results Only                    | 6,510   | 364   | 189  | 7,040   | 7,270   |
| Manganese  | mg/Kg | Results Only                    | 305   | 74.4  | 38.2   | 394   | 454   |
| Mercury  | mg/Kg | Results Only                    | 0.034   | 1.04  | 0.0148   | 0.244   | 0.238   |
| Nickel   | mg/Kg | Results Only                    | 7.96  | 9.47  | 8.62   | 18.8  | 13.4  |
| Potassium  | mg/Kg | Results Only                    | 747   | 551   | 267  | 825   | 1,090   |
| Selenium   | mg/Kg | Results Only                    | ND<3.05   | 1.95  | 1.24 J   | ND<1.19   | ND<1.08   |
| Silver   | mg/Kg | Results Only                    | ND < 0.509  | 1.22  | 0.541 J  | 0.538 J   | ND < 0.540  |
| Sodium   | mg/Kg | Results Only                    | 347   | 699   | 2,090  | 267   | 643   |
| Thallium   | mg/Kg | Results Only                    | 6.55  | ND<1.42   | ND<1.65  | 1.30 J  | 1.46  |
| Vanadium   | mg/Kg | Results Only                    | 9.14  | 13.9  | 19.7   | 13.7  | 14.8  |
| Zinc   | mg/Kg | Results Only                    | 65.8  | 48.2  | 8.58   | 141   | 112   |
| <b>VOCs</b>  |       |                                 |   |   |  |   |   |
| 1,1,1-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,1,2,2-Tetrachloroethane                                | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,1,2-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,1-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,1-Dichloroethylene                                     | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,2,3-Trichlorobenzene                                   | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| 1,2,4-Trichlorobenzene                                   | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| 1,2-Dibromo-3-Chloropropane                              | mg/Kg | Results Only                    | ND < 0.0196   | ND < 0.0228   | ND < 0.0276  | ND < 0.0231   | ND < 0.0234   |
| 1,2-Dibromoethane  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,2-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,2-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,2-Dichloropropane                                      | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,3-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,4-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| 1,4-dioxane  | mg/Kg | Results Only                    | ND < 0.0393   | ND < 0.0457   | ND < 0.00552   | ND < 0.0463   | ND < 0.0469   |
| 2-Butanone   | mg/Kg | Results Only                    | ND < 0.0196   | ND < 0.0228   | ND < 0.0276  | ND < 0.0231   | ND < 0.0234   |
| 2-Hexanone   | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| 4-Methyl-2-Pentanone                                     | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| Acetone  | mg/Kg | Results Only                    | ND < 0.0196   | ND < 0.0228   | ND < 0.0276  | ND < 0.0231   | ND < 0.0234   |
| Benzene  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Bromodichloromethane                                     | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| Bromoform  | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Bromomethane   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.0116   | ND < 0.0117   |
| Carbon Disulfide   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Carbon Tetrachloride                                     | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Chlorinated Fluorocarbon (freon 11)                      | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Chlorobenzene  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Chloroethane   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Chloroform   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Chloromethane  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| cis-1,2-Dichloroethylene                                 | mg/Kg | Results Only                    | ND < 0.00393  | 0.00244 J   | ND < 0.00552   | 0.00304 J   | ND < 0.00469  |
| cis-1,3-Dichloropropylene                                | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Cyclohexane  | mg/Kg | Results Only                    | ND < 0.0196   | ND < 0.0228   | ND < 0.0276  | ND < 0.0231   | ND < 0.0234   |
| Dibromochloromethane                                     | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Dichlorodifluoromethane                                  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Ethylbenzene   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Isopropylbenzene   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| m-Xylene and p-Xylene                                    | mg/Kg | Results Only                    | 0.00374 J   | 0.00403 J   | 0.0033 J   | 0.00475   | 0.00547   |
| Methyl Acetate   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Methyl tert-Butyl ether                                  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Methylcyclohexane  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Methylene chloride                                       | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| o-Xylene   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Styrene  | mg/Kg | Results Only                    | ND < 0.0098   | ND < 0.0114   | ND < 0.0138  | ND < 0.0116   | ND < 0.0117   |
| Tetrachloroethene  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Toluene  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| trans-1,2-Dichloroethylene                               | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| trans-1,3-Dichloropropylene                              | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Trichloroethylene  | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Trichlorofluoromethane                                   | mg/Kg | Results Only                    | ND < 0.00393  | ND < 0.00457  | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Vinyl Chloride   | mg/Kg | Results Only                    | ND < 0.00393  | 0.00544   | ND < 0.00552   | ND < 0.00463  | ND < 0.00469  |
| Xylene (Total)   | mg/Kg | Results Only                    | 0.00374 J   | 0.00403 J   | 0.0033 J   | 0.00475   | 0.00547   |
| Total BTEX   | mg/Kg | <10                             | 0.00374 J   | 0.00403 J   | 0.0033 J   | 0.00475   | 0.00547   |

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |   |   |  |   |   |
|--|-------|---------------------------------|---|---|--|---|---|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-1 (0-1')<br>8/17/2018<br>183776-01<br>1832541-01 | WC S-2 (0-1')<br>8/17/2018<br>183776-02<br>1832541-02 | WC S-3 (0-1')<br>8/17/2018<br>183776-03A<br>1832541-03 | WC S-4 (0-1')<br>8/17/2018<br>183776-04<br>1832541-04 | WC S-5 (0-1')<br>8/17/2018<br>183776-05<br>1832541-05 |
| <b>SVOCs</b>   |       |                                 |   |   |  |   |   |
| 1,1'-Biphenyl  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 1,2-Benzphenanthracene (chrysene)                        | mg/Kg | Results Only                    | ND < 0.297  | <b>3.58</b>   | ND < 0.338   | <b>0.295 J</b>  | ND < 0.313  |
| 2,2'-oxybis(1-Chloropropane)                             | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,4,5-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,4,6-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,4-Dichlorophenol                                       | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,4-Dimethylphenol                                       | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,4-Dinitrophenol  | mg/Kg | Results Only                    | ND < 1.19   | ND < 1.34   | ND < 1.35  | ND < 1.26   | ND < 1.25   |
| 2,4-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2,6-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Chloronaphthalene                                      | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Chlorophenol   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Methylnaphthalene                                      | mg/Kg | Results Only                    | ND < 0.297  | <b>0.704</b>  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Methylphenol   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 2-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 3&4-Methylphenol   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 3,3'-Dichlorobenzidine                                   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 3-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4,6-Dinitro-2-Methylphenol                               | mg/Kg | Results Only                    | ND < 0.594  | ND < 0.669  | ND < 0.675   | ND < 0.631  | ND < 0.625  |
| 4-Bromophenyl Phenyl Ether                               | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4-chloro-3-Methylphenol                                  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4-Chloroaniline  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4-Chlorophenyl Phenyl Ether                              | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| 4-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Acenaphthene*  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Acenaphthylene*  | mg/Kg | Results Only                    | ND < 0.297  | <b>0.488</b>  | ND < 0.338   | ND < 0.316  | <b>0.165 J</b>  |
| Acetophenone   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Anthracene*  | mg/Kg | Results Only                    | ND < 0.297  | <b>0.698</b>  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Atrazine   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Benzo(a)anthracene*                                      | mg/Kg | Results Only                    | ND < 0.297  | <b>3.63</b>   | ND < 0.338   | <b>0.201 J</b>  | ND < 0.313  |
| Benzaldehyde   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Benzo(a)pyrene*  | mg/Kg | Results Only                    | ND < 0.297  | <b>2.73</b>   | ND < 0.338   | <b>0.210 J</b>  | ND < 0.313  |
| Benzo(b)fluoranthene*                                    | mg/Kg | Results Only                    | ND < 0.297  | <b>2.58</b>   | ND < 0.338   | <b>0.234 J</b>  | ND < 0.313  |
| Benzo(g,h,i)perylene*                                    | mg/Kg | Results Only                    | ND < 0.297  | <b>1.64</b>   | ND < 0.338   | <b>0.230 J</b>  | ND < 0.313  |
| Benzo(k)fluoranthene*                                    | mg/Kg | Results Only                    | ND < 0.297  | <b>2.36</b>   | ND < 0.338   | <b>0.201 J</b>  | ND < 0.313  |
| Benzyl Butyl Phthalate                                   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| bis(2-Chloroethoxy)Methane                               | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| bis(2-chloroethyl)ether                                  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| bis(2-Ethylhexyl)Phthalate                               | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Caprolactam  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Carbazole  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Dibenz(a,h)anthracene*                                   | mg/Kg | Results Only                    | ND < 0.297  | <b>0.536</b>  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Dibenzofuran   | mg/Kg | Results Only                    | ND < 0.297  | <b>0.341</b>  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Diethyl Phthalate  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Dimethyl Phthalate                                       | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| di-n-Butyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| di-n-Octyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Fluoranthene*  | mg/Kg | Results Only                    | ND < 0.297  | <b>4.77</b>   | ND < 0.338   | <b>0.335</b>  | ND < 0.313  |
| Fluorene*  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Hexachlorobenzene  | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Hexachlorobutadiene                                      | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Hexachlorocyclopentadiene                                | mg/Kg | Results Only                    | ND < 1.19   | ND < 1.34   | ND < 1.35  | ND < 1.26   | ND < 1.25   |
| Hexachloroethane   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Indeno(1,2,3-c,d)pyrene*                                 | mg/Kg | Results Only                    | ND < 0.297  | <b>1.8</b>  | ND < 0.338   | <b>0.193 J</b>  | ND < 0.313  |
| Isophorone   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Naphthalene*   | mg/Kg | Results Only                    | ND < 0.297  | <b>0.564</b>  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Nitrobenzene**   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| n-Nitroso-di-n-Propylamine                               | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| n-Nitrosodiphenylamine                                   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Pentachlorophenol  | mg/Kg | Results Only                    | ND < 0.594  | ND < 0.669  | ND < 0.675   | ND < 0.631  | ND < 0.625  |
| Phenanthrene*  | mg/Kg | Results Only                    | ND < 0.297  | <b>1.77</b>   | ND < 0.338   | <b>0.196 J</b>  | ND < 0.313  |
| Phenol   | mg/Kg | Results Only                    | ND < 0.297  | ND < 0.334  | ND < 0.338   | ND < 0.316  | ND < 0.313  |
| Pyrene*  | mg/Kg | Results Only                    | <b>0.154 J</b>  | <b>4.71</b>   | ND < 0.338   | <b>0.311 J</b>  | ND < 0.313  |
| Total PAHs   | mg/Kg | <1,000                          | <b>0.154 J</b>  | <b>32.9</b>   | ND < 0.338   | <b>0.34</b>   | <b>0.165 J</b>  |

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |   |   |  |   |   |
|--|-------|---------------------------------|---|---|--|---|---|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-1 (0-1')<br>8/17/2018<br>183776-01<br>1832541-01 | WC S-2 (0-1')<br>8/17/2018<br>183776-02<br>1832541-02 | WC S-3 (0-1')<br>8/17/2018<br>183776-03A<br>1832541-03 | WC S-4 (0-1')<br>8/17/2018<br>183776-04<br>1832541-04 | WC S-5 (0-1')<br>8/17/2018<br>183776-05<br>1832541-05 |
| <b>Hazardous Waste Criteria (TCLP)</b>                   |       |                                 |   |   |  |   |   |
| Arsenic  | mg/L  | 5                               | ND < 0.500  | ND < 0.500  | ND < 0.500   | ND < 0.500  | ND < 0.500  |
| Barium   | mg/L  | 100                             | ND < 0.500  | <b>0.453 J</b>  | ND < 0.500   | <b>0.930</b>  | <b>0.920</b>  |
| Cadmium  | mg/L  | 1                               | ND < 0.0250   | ND < 0.0250   | ND < 0.0250  | ND < 0.0250   | ND < 0.0250   |
| Chromium   | mg/L  | 5                               | ND < 0.100  | ND < 0.100  | ND < 0.100   | ND < 0.100  | ND < 0.100  |
| Lead   | mg/L  | 5                               | ND < 0.500  | ND < 0.500  | ND < 0.500   | ND < 0.500  | ND < 0.500  |
| Mercury  | mg/L  | 0.2                             | ND < 0.100  | ND < 0.100  | ND < 0.100   | ND < 0.100  | ND < 0.100  |
| Selenium   | mg/L  | 1                               | ND < 0.200  | ND < 0.200  | ND < 0.200   | ND < 0.200  | ND < 0.200  |
| Silver   | mg/L  | 5                               | ND < 0.500  | ND < 0.500  | ND < 0.500   | ND < 0.500  | ND < 0.500  |
| Endrin   | mg/L  | 0.02                            | NT  | NT  | NT   | NT  | NT  |
| Lindane  | mg/L  | 0.4                             | NT  | NT  | NT   | NT  | NT  |
| Methoxychlor   | mg/L  | 10                              | NT  | NT  | NT   | NT  | NT  |
| Toxaphene  | mg/L  | 1                               | NT  | NT  | NT   | NT  | NT  |
| 2,4-D  | mg/L  | 10                              | NT  | NT  | NT   | NT  | NT  |
| 2,4,5-TP   | mg/L  | 1                               | NT  | NT  | NT   | NT  | NT  |
| Benzene  | mg/L  | 1                               | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| Carbon tetrachloride                                     | mg/L  | 1                               | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| Chlordane  | mg/L  | 0.03                            | NT  | NT  | NT   | NT  | NT  |
| Chlorobenzene  | mg/L  | 100                             | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| Chloroform   | mg/L  | 6                               | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| o-Cresol   | mg/L  | 200                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| m-Cresol   | mg/L  | 200                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| p-Cresol   | mg/L  | 200                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| Cresol   | mg/L  | 200                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| 1,4-Dichlorobenzene                                      | mg/L  | 7.5                             | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| 1,2-Dichloroethane                                       | mg/L  | 0.5                             | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| 1,1-Dichloroethylene                                     | mg/L  | 0.7                             | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| 2,4-Dinitrotoluene                                       | mg/L  | 0.13                            | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Heptachlor (and epoxide)                                 | mg/L  | 0.01                            | NT  | NT  | NT   | NT  | NT  |
| Hexachlorobenzene  | mg/L  | 0.13                            | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Hexachlorobutadiene                                      | mg/L  | 1                               | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Hexachloroethane   | mg/L  | 3                               | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Methyl ethyl ketone (2-Butanone)                         | mg/L  | 200                             | ND < 0.1  | ND < 0.1  | ND < 0.1   | ND < 0.1  | ND < 0.1  |
| Nitrobenzene   | mg/L  | 2                               | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Pentachlorophenol  | mg/L  | 100                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| Pyridine   | mg/L  | 5                               | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Tetrachloroethylene                                      | mg/L  | 0.7                             | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| Trichloroethylene  | mg/L  | 1                               | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| 2,4,5-Trichlorophenol                                    | mg/L  | 400                             | ND < 0.08   | ND < 0.08   | ND < 0.08  | ND < 0.08   | ND < 0.08   |
| 2,4,6-Trichlorophenol                                    | mg/L  | 2                               | ND < 0.04   | ND < 0.04   | ND < 0.04  | ND < 0.04   | ND < 0.04   |
| Vinyl chloride   | mg/L  | 0.2                             | ND < 0.02   | ND < 0.02   | ND < 0.02  | ND < 0.02   | ND < 0.02   |
| <b>PCBs</b>  |       |                                 |   |   |  |   |   |
| Aroclor-1016   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1221   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1232   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1242   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1248   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1254   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1260   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1262   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| Aroclor-1268   | mg/Kg | Results Only                    | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| PCBs (Total)   | mg/Kg | <50                             | ND < 0.0300   | ND < 0.0329   | ND < 0.0352  | ND < 0.0340   | ND < 0.0308   |
| <b>Reactivity</b>  |       |                                 |   |   |  |   |   |
| Reactive Cyanide   | mg/Kg | Results Only                    | ND < 10   | ND < 10   | ND < 10  | ND < 10   | ND < 10   |
| Reactive Sulfide   | mg/Kg | Results Only                    | ND < 10   | ND < 10   | ND < 10  | ND < 10   | ND < 10   |
| Flash Point  | C     | <60                             | >70.0   | >70.0   | >70.0  | >70.0   | >70.0   |
| pH   | S.U.  | <2 or >12.5                     | 7.39  | 7.93  | 8.13   | 8.32  | 8.22  |

- Notes:**
1. mg/Kg indicates milligram per kilogram.
  2. mg/L indicates milligram per liter.
  3. NT indicates not tested.
  4. VOCs indicates volatile organic compounds (via United States Environmental Protection Agency [USEPA] Method 8260).
  5. SVOCs indicates semi-volatile organic compounds via USEPA Method 8270.
  6. Hazardous waste characteristic criteria from Toxicity Characteristic Leaching Procedure (TCLP).
  7. \*Denotes polycyclic aromatic hydrocarbon (PAH).
  8. PCBs indicates polychlorinated biphenyls.
  9. Bold text indicates detected result above reporting limit.
  10. Highlighted text indicates exceedance of waste characterization criteria.

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |                                      |                                      |                                      |                                      |                                      |
|--|-------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-6 (0-1')                        | WC S-7 (0-1')                        | WC S-8 (0-1')                        | WC S-9 (0-1')                        | WC S-10 (0-1')                       |
|  |       |                                 | 8/17/2018<br>183776-06<br>1832541-06 | 8/17/2018<br>183776-07<br>1832541-07 | 8/17/2018<br>183776-08<br>1832541-08 | 8/17/2018<br>183776-09<br>1832541-09 | 8/17/2018<br>183776-10<br>1832541-10 |
| <b>Total Metals</b>                                      |       |                                 |                                      |                                      |                                      |                                      |                                      |
| Aluminum   | mg/Kg | Results Only                    | 4,880                                | 7,010                                | 5,550                                | 435                                  | 3,830                                |
| Antimony   | mg/Kg | Results Only                    | 7.04                                 | 2.42 J                               | 34.5                                 | 29.0                                 | 6.65                                 |
| Arsenic  | mg/Kg | Results Only                    | 19.3                                 | 7.81                                 | 91.6                                 | 55.9                                 | 30.6                                 |
| Barium   | mg/Kg | Results Only                    | 155                                  | 77.7                                 | 154                                  | 127                                  | 145                                  |
| Beryllium  | mg/Kg | Results Only                    | 0.487                                | 0.425                                | 0.718                                | ND<0.398                             | 0.761                                |
| Cadmium  | mg/Kg | Results Only                    | 6.86                                 | 1.36                                 | 2.94                                 | 31.2                                 | 1.93                                 |
| Calcium  | mg/Kg | Results Only                    | 14,800                               | 37,800                               | 45,200                               | 5,530                                | 20,100                               |
| Chromium   | mg/Kg | Results Only                    | 15.6                                 | 11.4                                 | 18.1                                 | 172                                  | 10.3                                 |
| Cobalt   | mg/Kg | Results Only                    | 6.76                                 | 11.3                                 | 8.93                                 | 17.8                                 | 6.82                                 |
| Copper   | mg/Kg | Results Only                    | 126                                  | 41.7                                 | 322                                  | 1,450                                | 85.7                                 |
| Iron   | mg/Kg | Results Only                    | 80,700                               | 18,700                               | 46,300                               | 483,000                              | 30,300                               |
| Lead   | mg/Kg | Results Only                    | 811                                  | 124                                  | 681                                  | 234                                  | 504                                  |
| Magnesium  | mg/Kg | Results Only                    | 3,940                                | 12,100                               | 7,700                                | 728                                  | 1,930                                |
| Manganese  | mg/Kg | Results Only                    | 384                                  | 340                                  | 241                                  | 1,460                                | 178                                  |
| Mercury  | mg/Kg | Results Only                    | 0.311                                | 0.0656                               | 0.143                                | 0.0783                               | 0.128                                |
| Nickel   | mg/Kg | Results Only                    | 20.2                                 | 18.0                                 | 20.1                                 | 146                                  | 16.5                                 |
| Potassium  | mg/Kg | Results Only                    | 732                                  | 966                                  | 746                                  | ND<199                               | 504                                  |
| Selenium   | mg/Kg | Results Only                    | 0.644 J                              | ND<1.15                              | ND<1.18                              | ND<3.18                              | 1.55                                 |
| Silver   | mg/Kg | Results Only                    | 1.94                                 | 0.439 J                              | ND < 0.591                           | 16.1                                 | 0.711                                |
| Sodium   | mg/Kg | Results Only                    | 690                                  | 95.6 J                               | 529                                  | 972                                  | 216                                  |
| Thallium   | mg/Kg | Results Only                    | ND<1.35                              | 1.00 J                               | ND<1.48                              | ND<5.96                              | ND<1.34                              |
| Vanadium   | mg/Kg | Results Only                    | 10.7                                 | 13.9                                 | 18.9                                 | 76.5                                 | 14.1                                 |
| Zinc   | mg/Kg | Results Only                    | 455                                  | 119                                  | 168                                  | 105                                  | 217                                  |
| <b>VOCs</b>  |       |                                 |                                      |                                      |                                      |                                      |                                      |
| 1,1,1-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,1,2,2-Tetrachloroethane                                | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,1,2-Trichloroethane                                    | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,1-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,1-Dichloroethylene                                     | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,2,3-Trichlorobenzene                                   | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| 1,2,4-Trichlorobenzene                                   | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| 1,2-Dibromo-3-Chloropropane                              | mg/Kg | Results Only                    | ND < 0.0206                          | ND < 0.0221                          | ND < 0.0228                          | ND < 0.986                           | ND < 0.0227                          |
| 1,2-Dibromoethane  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,2-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,2-Dichloroethane                                       | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,2-Dichloropropane                                      | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,3-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,4-Dichlorobenzene                                      | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| 1,4-dioxane  | mg/Kg | Results Only                    | ND < 0.0413                          | ND < 0.0442                          | ND < 0.0456                          | ND < 1.97                            | ND < 0.0455                          |
| 2-Butanone   | mg/Kg | Results Only                    | ND < 0.0206                          | ND < 0.0221                          | ND < 0.0228                          | 0.738 J                              | 0.0283                               |
| 2-Hexanone   | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| 4-Methyl-2-Pentanone                                     | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| Acetone  | mg/Kg | Results Only                    | ND < 0.0206                          | ND < 0.0221                          | ND < 0.0228                          | 2.56                                 | 0.176                                |
| Benzene  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Bromodichloromethane                                     | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| Bromoform  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Bromomethane   | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| Carbon Disulfide   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | 0.012                                |
| Carbon Tetrachloride                                     | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Chlorinated Fluorocarbon (freon 11)                      | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Chlorobenzene  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Chloroethane   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Chloroform   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Chloromethane  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| cis-1,2-Dichloroethylene                                 | mg/Kg | Results Only                    | 0.00223 J                            | ND < 0.00442                         | 0.00306 J                            | ND < 0.197                           | 0.00301 J                            |
| cis-1,3-Dichloropropylene                                | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Cyclohexane  | mg/Kg | Results Only                    | ND < 0.0206                          | ND < 0.0221                          | ND < 0.0228                          | ND < 0.986                           | ND < 0.0227                          |
| Dibromochloromethane                                     | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Dichlorodifluoromethane                                  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Ethylbenzene   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Isopropylbenzene   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| m-Xylene and p-Xylene                                    | mg/Kg | Results Only                    | 0.00493                              | 0.00258                              | 0.00610                              | ND < 0.197                           | 0.0068                               |
| Methyl Acetate   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Methyl tert-Butyl ether                                  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Methylcyclohexane  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | 0.00333 J                            |
| Methylene chloride                                       | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| o-Xylene   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | 0.00266 J                            | ND < 0.197                           | 0.00326 J                            |
| Styrene  | mg/Kg | Results Only                    | ND < 0.0103                          | ND < 0.0110                          | ND < 0.0114                          | ND < 0.493                           | ND < 0.0114                          |
| Tetrachloroethene  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Toluene  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| trans-1,2-Dichloroethylene                               | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| trans-1,3-Dichloropropylene                              | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Trichloroethylene  | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Trichlorofluoromethane                                   | mg/Kg | Results Only                    | ND < 0.00413                         | ND < 0.00442                         | ND < 0.00456                         | ND < 0.197                           | ND < 0.00455                         |
| Vinyl Chloride   | mg/Kg | Results Only                    | 0.00602                              | ND < 0.00442                         | 0.0059                               | ND < 0.197                           | 0.00904                              |
| Xylene (Total)   | mg/Kg | Results Only                    | 0.00493                              | 0.00258                              | 0.00610                              | ND < 0.197                           | 0.01006                              |
| Total BTEX   | mg/Kg | <10                             | 0.00493                              | 0.00258                              | 0.00610                              | ND < 0.197                           | 0.01006                              |

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |   |   |   |   |  |
|--|-------|---------------------------------|---|---|---|---|--|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-6 (0-1')<br>8/17/2018<br>183776-06<br>1832541-06 | WC S-7 (0-1')<br>8/17/2018<br>183776-07<br>1832541-07 | WC S-8 (0-1')<br>8/17/2018<br>183776-08<br>1832541-08 | WC S-9 (0-1')<br>8/17/2018<br>183776-09<br>1832541-09 | WC S-10 (0-1')<br>8/17/2018<br>183776-10<br>1832541-10 |
| <b>SVOCs</b>   |       |                                 |   |   |   |   |  |
| 1,1'-Biphenyl  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | <b>0.171 J</b>   |
| 1,2-Benzphenanthracene (chrysene)                        | mg/Kg | Results Only                    | <b>0.391</b>  | <b>2.78</b>   | <b>0.721</b>  | <b>2.74</b>   | <b>1.36</b>  |
| 2,2'-oxybis(1-Chloropropane)                             | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,4,5-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,4,6-Trichlorophenol                                    | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,4-Dichlorophenol                                       | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,4-Dimethylphenol                                       | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,4-Dinitrophenol  | mg/Kg | Results Only                    | ND < 1.23   | ND < 1.26   | ND < 1.32   | ND < 1.80   | ND < 1.29  |
| 2,4-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2,6-Dinitrotoluene                                       | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2-Chloronaphthalene                                      | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2-Chlorophenol   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2-Methylnaphthalene                                      | mg/Kg | Results Only                    | <b>0.329</b>  | ND < 0.315  | <b>0.439</b>  | ND < 0.450  | <b>0.936</b>   |
| 2-Methylphenol   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 2-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 3&4-Methylphenol   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 3,3'-Dichlorobenzidine                                   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 3-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4,6-Dinitro-2-Methylphenol                               | mg/Kg | Results Only                    | ND < 0.617  | ND < 0.630  | ND < 0.661  | ND < 0.901  | ND < 0.644   |
| 4-Bromophenyl Phenyl Ether                               | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4-chloro-3-Methylphenol                                  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4-Chloroaniline  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4-Chlorophenyl Phenyl Ether                              | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4-Nitroaniline   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| 4-Nitrophenol  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Acenaphthene*  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | <b>0.365 J</b>  | ND < 0.322   |
| Acenaphthylene*  | mg/Kg | Results Only                    | <b>0.537</b>  | <b>0.752</b>  | <b>0.479</b>  | <b>3.21</b>   | <b>0.292 J</b>   |
| Acetophenone   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Anthracene*  | mg/Kg | Results Only                    | <b>0.213 J</b>  | <b>0.954</b>  | <b>0.292 J</b>  | <b>1.13</b>   | <b>0.421</b>   |
| Atrazine   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Benzo(a)anthracene*                                      | mg/Kg | Results Only                    | <b>0.287 J</b>  | <b>2.40</b>   | <b>0.544</b>  | <b>2.3</b>  | <b>1.08</b>  |
| Benzaldehyde   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | <b>0.404 J</b>  | ND < 0.322   |
| Benzo(a)pyrene*  | mg/Kg | Results Only                    | <b>0.241 J</b>  | <b>2.50</b>   | <b>0.464</b>  | <b>2.4</b>  | <b>0.745</b>   |
| Benzo(b)fluoranthene*                                    | mg/Kg | Results Only                    | <b>0.337</b>  | <b>2.33</b>   | <b>0.636</b>  | <b>2.95</b>   | <b>0.964</b>   |
| Benzo(g,h,i)perylene*                                    | mg/Kg | Results Only                    | <b>0.281 J</b>  | <b>1.88</b>   | <b>0.550</b>  | <b>3.04</b>   | <b>0.518</b>   |
| Benzo(k)fluoranthene*                                    | mg/Kg | Results Only                    | <b>0.175 J</b>  | <b>1.89</b>   | <b>0.384</b>  | <b>1.76</b>   | <b>0.723</b>   |
| Benzyl Butyl Phthalate                                   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| bis(2-Chloroethoxy)Methane                               | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| bis(2-chloroethyl)ether                                  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| bis(2-Ethylhexyl)Phthalate                               | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Caprolactam  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Carbazole  | mg/Kg | Results Only                    | ND < 0.308  | <b>0.745</b>  | ND < 0.331  | ND < 0.450  | <b>0.211 J</b>   |
| Dibenz(a,h)anthracene*                                   | mg/Kg | Results Only                    | ND < 0.308  | <b>0.419</b>  | ND < 0.331  | <b>0.361 J</b>  | <b>0.163 J</b>   |
| Dibenzofuran   | mg/Kg | Results Only                    | <b>0.222 J</b>  | <b>0.326</b>  | <b>0.203 J</b>  | <b>0.350 J</b>  | <b>0.428</b>   |
| Diethyl Phthalate  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Dimethyl Phthalate                                       | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| di-n-Butyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| di-n-Octyl Phthalate                                     | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Fluoranthene*  | mg/Kg | Results Only                    | <b>0.507</b>  | <b>7.57</b>   | <b>0.832</b>  | <b>3.07</b>   | <b>1.83</b>  |
| Fluorene*  | mg/Kg | Results Only                    | ND < 0.308  | <b>0.596</b>  | ND < 0.331  | <b>0.56</b>   | ND < 0.322   |
| Hexachlorobenzene  | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Hexachlorobutadiene                                      | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Hexachlorocyclopentadiene                                | mg/Kg | Results Only                    | ND < 1.23   | ND < 1.26   | ND < 1.32   | ND < 1.80   | ND < 1.29  |
| Hexachloroethane   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Indeno(1,2,3-c,d)pyrene*                                 | mg/Kg | Results Only                    | <b>0.287 J</b>  | <b>1.81</b>   | <b>0.458</b>  | <b>1.95</b>   | <b>0.540</b>   |
| Isophorone   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Naphthalene*   | mg/Kg | Results Only                    | <b>0.325</b>  | <b>0.313 J</b>  | <b>0.290 J</b>  | <b>0.343 J</b>  | <b>0.802</b>   |
| Nitrobenzene**   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| n-Nitroso-di-n-Propylamine                               | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| n-Nitrosodiphenylamine                                   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Pentachlorophenol  | mg/Kg | Results Only                    | ND < 0.617  | ND < 0.630  | ND < 0.661  | ND < 0.901  | ND < 0.644   |
| Phenanthrene*  | mg/Kg | Results Only                    | <b>0.585</b>  | <b>5.89</b>   | <b>0.807</b>  | <b>1.85</b>   | <b>1.38</b>  |
| Phenol   | mg/Kg | Results Only                    | ND < 0.308  | ND < 0.315  | ND < 0.331  | ND < 0.450  | ND < 0.322   |
| Pyrene*  | mg/Kg | Results Only                    | <b>0.482</b>  | <b>5.74</b>   | <b>0.864</b>  | <b>5.77</b>   | <b>1.74</b>  |
| Total PAHs   | mg/Kg | <1,000                          | <b>2.96</b>   | <b>38.6</b>   | <b>7.18</b>   | <b>32.73</b>  | <b>13.47</b>   |

| Table 3 - MSLF Waste Characterization Analytical Results |       |                                 |   |   |   |   |  |
|--|-------|---------------------------------|---|---|---|---|--|
| Target Analyte   | Units | Waste Characterization Criteria | WC S-6 (0-1')<br>8/17/2018<br>183776-06<br>1832541-06 | WC S-7 (0-1')<br>8/17/2018<br>183776-07<br>1832541-07 | WC S-8 (0-1')<br>8/17/2018<br>183776-08<br>1832541-08 | WC S-9 (0-1')<br>8/17/2018<br>183776-09<br>1832541-09 | WC S-10 (0-1')<br>8/17/2018<br>183776-10<br>1832541-10 |
| <b>Hazardous Waste Criteria (TCLP)</b>                   |       |                                 |   |   |   |   |  |
| Arsenic  | mg/L  | 5                               | ND < 0.500   |
| Barium   | mg/L  | 100                             | <b>1.22</b>   | <b>0.689</b>  | <b>0.539</b>  | <b>0.638</b>  | <b>1.83</b>  |
| Cadmium  | mg/L  | 1                               | <b>0.0309</b>   | ND < 0.0250   | ND < 0.0250   | ND < 0.0250   | ND < 0.0250  |
| Chromium   | mg/L  | 5                               | ND < 0.100   |
| Lead   | mg/L  | 5                               | <b>0.437</b>  | ND < 0.500  | ND < 0.500  | ND < 0.500  | <b>0.403 J</b>   |
| Mercury  | mg/L  | 0.2                             | ND < 0.100   |
| Selenium   | mg/L  | 1                               | ND < 0.200   |
| Silver   | mg/L  | 5                               | ND < 0.500   |
| Endrin   | mg/L  | 0.02                            | NT  | NT  | NT  | NT  | NT   |
| Lindane  | mg/L  | 0.4                             | NT  | NT  | NT  | NT  | NT   |
| Methoxychlor   | mg/L  | 10                              | NT  | NT  | NT  | NT  | NT   |
| Toxaphene  | mg/L  | 1                               | NT  | NT  | NT  | NT  | NT   |
| 2,4-D  | mg/L  | 10                              | NT  | NT  | NT  | NT  | NT   |
| 2,4,5-TP   | mg/L  | 1                               | NT  | NT  | NT  | NT  | NT   |
| Benzene  | mg/L  | 1                               | ND < 0.02  |
| Carbon tetrachloride                                     | mg/L  | 1                               | ND < 0.02  |
| Chlordane  | mg/L  | 0.03                            | NT  | NT  | NT  | NT  | NT   |
| Chlorobenzene  | mg/L  | 100                             | ND < 0.02  |
| Chloroform   | mg/L  | 6                               | ND < 0.02  |
| o-Cresol   | mg/L  | 200                             | ND < 0.08  |
| m-Cresol   | mg/L  | 200                             | ND < 0.08  |
| p-Cresol   | mg/L  | 200                             | ND < 0.08  |
| Cresol   | mg/L  | 200                             | ND < 0.08  |
| 1,4-Dichlorobenzene                                      | mg/L  | 7.5                             | ND < 0.04  |
| 1,2-Dichloroethane                                       | mg/L  | 0.5                             | ND < 0.02  |
| 1,1-Dichloroethylene                                     | mg/L  | 0.7                             | ND < 0.02  |
| 2,4-Dinitrotoluene                                       | mg/L  | 0.13                            | ND < 0.04  |
| Heptachlor (and epoxide)                                 | mg/L  | 0.01                            | NT  | NT  | NT  | NT  | NT   |
| Hexachlorobenzene  | mg/L  | 0.13                            | ND < 0.04  |
| Hexachlorobutadiene                                      | mg/L  | 1                               | ND < 0.04  |
| Hexachloroethane   | mg/L  | 3                               | ND < 0.04  |
| Methyl ethyl ketone (2-Butanone)                         | mg/L  | 200                             | ND < 0.1   |
| Nitrobenzene   | mg/L  | 2                               | ND < 0.04  |
| Pentachlorophenol  | mg/L  | 100                             | ND < 0.08  |
| Pyridine   | mg/L  | 5                               | ND < 0.04  |
| Tetrachloroethylene                                      | mg/L  | 0.7                             | ND < 0.02  |
| Trichloroethylene  | mg/L  | 1                               | ND < 0.02  |
| 2,4,5-Trichlorophenol                                    | mg/L  | 400                             | ND < 0.08  |
| 2,4,6-Trichlorophenol                                    | mg/L  | 2                               | ND < 0.04  |
| Vinyl chloride   | mg/L  | 0.2                             | ND < 0.02  |
| <b>PCBs</b>  |       |                                 |   |   |   |   |  |
| Aroclor-1016   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1221   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1232   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1242   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1248   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1254   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1260   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1262   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| Aroclor-1268   | mg/Kg | Results Only                    | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| PCBs (Total)   | mg/Kg | <50                             | ND < 0.0322   | ND < 0.0335   | ND < 0.0325   | ND < 0.0448   | ND < 0.0317  |
| <b>Reactivity</b>  |       |                                 |   |   |   |   |  |
| Reactive Cyanide   | mg/Kg | Results Only                    | ND < 10  |
| Reactive Sulfide   | mg/Kg | Results Only                    | ND < 10  |
| Flash Point  | C     | <60                             | >70.0   | >70.0   | >70.0   | >70.0   | >70.0  |
| pH   | S.U.  | <2 or >12.5                     | 8.48  | 8.64  | 8.97  | 7.01  | 7.93   |

- Notes:**
1. mg/Kg indicates milligram per kilogram.
  2. mg/L indicates milligram per liter.
  3. NT indicates not tested.
  4. VOCs indicates volatile organic compounds (via United States Environmental Protection Agency [USEPA] Method 8260).
  5. SVOCs indicates semi-volatile organic compounds via USEPA Method 8270.
  6. Hazardous waste characteristic criteria from Toxicity Characteristic Leaching Procedure (TCLP).
  7. \*Denotes polycyclic aromatic hydrocarbon (PAH).
  8. PCBs indicates polychlorinated biphenyls.
  9. Bold text indicates detected result above reporting limit.
  10. Highlighted text indicates exceedance of waste characterization criteria.
  11. "J" - Result estimated between the quantitation limit and half the quantitation limit.

**Table 3 - Construction Water Waste Characterization Sample Analytical Results**

| Target Analyte  | Units | Waste Characterization Criteria <sup>(1)</sup> | PAV-FT01-WW<br>3/22/2019 | Trip Blank T894<br>3/22/2019 | PAV-FT02-WW<br>3/28/2019 | PAV-Dupe01-WW<br>3/28/2019 | Trip Blank T892<br>3/28/2019 | PAV-Vault_041119-WW<br>4/11/2019 | Trip Blank 041119<br>4/11/2019 |
|---|-------|--|--------------------------|------------------------------|--------------------------|----------------------------|------------------------------|----------------------------------|--------------------------------|
| <b>Volatile Organic Compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 624.1, Target Compound List (TCL)</b> |       |  |                          |                              |                          |                            |                              |                                  |                                |
| 1,1,1-Trichloroethane   | µg/L  | 1,550  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,1,2,2-Tetrachloroethane   | µg/L  | 445  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,1,2-Trichloroethane   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,1-Dichloroethane  | µg/L  | 500  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,1-Dichloroethene  | µg/L  | 3  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,2-Dichlorobenzene   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,2-Dichloroethane  | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,2-Dichloropropane   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,3-Dichlorobenzene   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 1,4-Dichlorobenzene   | µg/L  | 472  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| 2-Chloroethyl vinyl Ether   | µg/L  | NS   | ND < 10.0                | ND < 10.0                    | ND < 10.0                | ND < 10.0                  | ND < 10.0                    | ND < 100                         | ND < 10.0                      |
| Benzene   | µg/L  | 142  | <b>4.14</b>              | ND < 1.0                     | ND < 1.0                 | ND < 1.0                   | ND < 1.0                     | <b>211</b>                       | ND < 1.00                      |
| Bromodichloromethane  | µg/L  | mass   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Bromoform   | µg/L  | NS   | ND < 5.00                | ND < 5.00                    | ND < 5.00                | ND < 5.00                  | ND < 5.00                    | ND < 50.0                        | ND < 5.00                      |
| Bromomethane  | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Carbon Tetrachloride  | µg/L  | 30   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Chlorobenzene   | µg/L  | 310  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Chloroethane  | µg/L  | 420  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Chloroform  | µg/L  | 408  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Chloromethane   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| cis-1,3-Dichloropropene   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Dibromochloromethane  | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Ethylbenzene  | µg/L  | 1,584  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | <b>48.6</b>                      | ND < 2.00                      |
| Methylene chloride  | µg/L  | 2,062  | ND < 5.00                | ND < 5.00                    | ND < 5.00                | <b>3.35 J</b>              | <b>3.35 J</b>                | ND < 50.0                        | ND < 5.00                      |
| Tetrachloroethene   | µg/L  | 267  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Toluene   | µg/L  | 679  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| trans-1,2-Dichloroethene  | µg/L  | 285  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| trans-1,3-Dichloropropene   | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Trichloroethene   | µg/L  | 712  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Trichlorofluoromethane  | µg/L  | NS   | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| Vinyl chloride  | µg/L  | 3  | ND < 2.00                | ND < 2.00                    | ND < 2.00                | ND < 2.00                  | ND < 2.00                    | ND < 20.0                        | ND < 2.00                      |
| <b>Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 625.1, Acid/Base Neutrals</b>   |       |  |                          |                              |                          |                            |                              |                                  |                                |
| 1,2,4-Trichlorobenzene  | µg/L  | 394  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2,2-Oxybis (1-chloropropane)  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2,4,6-Trichlorophenol   | µg/L  | 2,000  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2,4-Dichlorophenol  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2,4-Dimethylphenol  | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| 2,4-Dinitrophenol   | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| 2,4-Dinitrotoluene  | µg/L  | 130  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2,6-Dinitrotoluene  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2-Chloronaphthalene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2-Chlorophenol  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 2-Nitrophenol   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 3,3'-Dichlorobenzidine  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 4,6-Dinitro-2-methylphenol  | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| 4-Bromophenyl phenyl ether  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 4-Chloro-3-methylphenol   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| 4-Chlorophenyl phenyl ether   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |

**Table 3 - Construction Water Waste Characterization Sample Analytical Results**

| Target Analyte                                       | Units | Waste Characterization Criteria <sup>(1)</sup> | PAV-FT01-WW<br>3/22/2019 | Trip Blank T894<br>3/22/2019 | PAV-FT02-WW<br>3/28/2019 | PAV-Dupe01-WW<br>3/28/2019 | Trip Blank T892<br>3/28/2019 | PAV-Vault_041119-WW<br>4/11/2019 | Trip Blank 041119<br>4/11/2019 |
|--|-------|--|--------------------------|------------------------------|--------------------------|----------------------------|------------------------------|----------------------------------|--------------------------------|
| 4-Nitrophenol  | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| Acenaphthene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>1,160</b>                     | NT                             |
| Acenaphthylene                                       | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Anthracene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>688</b>                       | NT                             |
| Benzidine  | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| Benzo(a)anthracene                                   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>324 J</b>                     | NT                             |
| Benzo(a)pyrene                                       | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Benzo(b)fluoranthene                                 | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Benzo(g,h,i)perylene                                 | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Benzo(k)fluoranthene                                 | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Bis (2-chloroethoxy) methane                         | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Bis (2-chloroethyl) ether                            | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Bis (2-ethylhexyl) phthalate                         | µg/L  | mass   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Butylbenzylphthalate                                 | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Chrysene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>290 J</b>                     | NT                             |
| Dibenz(a,h)anthracene                                | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Diethyl phthalate                                    | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Dimethyl phthalate                                   | µg/L  | NS   | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| Di-n-butyl phthalate                                 | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Di-n-octylphthalate                                  | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Fluoranthene   | µg/L  | 100  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>775</b>                       | NT                             |
| Fluorene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Hexachlorobenzene                                    | µg/L  | 130  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Hexachlorobutadiene                                  | µg/L  | 500  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Hexachlorocyclopentadiene                            | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Hexachloroethane                                     | µg/L  | 93   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Indeno (1,2,3-cd) pyrene                             | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Isophorone   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Naphthalene  | µg/L  | NS   | <b>6.90 J</b>            | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>1,300</b>                     | NT                             |
| Nitrobenzene   | µg/L  | 2,000  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| N-Nitrosodimethylamine                               | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| N-Nitroso-di-n-propylamine                           | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| N-Nitrosodiphenylamine                               | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Pentachlorophenol                                    | µg/L  | 4,371  | ND < 20.0                | NA                           | ND < 20.0                | ND < 20.0                  | NA                           | ND < 1000                        | NT                             |
| Phenanthrene   | µg/L  | NS   | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>2,620</b>                     | NT                             |
| Phenol   | µg/L  | 8,000  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | ND < 500                         | NT                             |
| Pyrene   | µg/L  | 100  | ND < 10.0                | NA                           | ND < 10.0                | ND < 10.0                  | NA                           | <b>1,590</b>                     | NT                             |
| <b>Chlorinated Pesticides via USEPA Method 608.3</b> |       |  |                          |                              |                          |                            |                              |                                  |                                |
| 4,4-DDD  | µg/L  | PQL  | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| 4,4-DDE  | µg/L  | NS   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| 4,4-DDT  | µg/L  | NS   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Aldrin   | µg/L  | NS   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| alpha-BHC  | µg/L  | 10   | <b>0.110 J</b>           | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.280 P</b>                   | NT                             |
| beta-BHC   | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.147 JP</b>                  | NT                             |
| cis-Chlordane  | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.208 P</b>                   | NT                             |
| delta-BHC  | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Dieldrin   | µg/L  | NS   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Endosulfan I   | µg/L  | PQL  | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.167 J</b>                   | NT                             |
| Endosulfan II  | µg/L  | PQL  | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200 P                     | NT                             |
| Endosulfan sulfate                                   | µg/L  | PQL  | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Endrin   | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.211 P</b>                   | NT                             |
| Endrin Aldehyde                                      | µg/L  | NS   | ND < 0.300               | NA                           | ND < 0.300               | ND < 0.300                 | NA                           | <b>0.222 J</b>                   | NT                             |
| gamma-BHC (Lindane)                                  | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Heptachlor   | µg/L  | 3  | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Heptachlor epoxide                                   | µg/L  | NS   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | <b>0.194 JP</b>                  | NT                             |
| Methoxychlor   | µg/L  | 18   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200                       | NT                             |
| Toxaphene  | µg/L  | 10   | ND < 2.00                | NA                           | ND < 2.00                | ND < 2.00                  | NA                           | ND < 2.00                        | NT                             |
| trans-Chlordane                                      | µg/L  | 10   | ND < 0.200               | NA                           | ND < 0.200               | ND < 0.200                 | NA                           | ND < 0.200 P                     | NT                             |

**Table 3 - Construction Water Waste Characterization Sample Analytical Results**

| Target Analyte   | Units | Waste Characterization Criteria <sup>(1)</sup> | PAV-FT01-WW<br>3/22/2019 | Trip Blank T894<br>3/22/2019 | PAV-FT02-WW<br>3/28/2019 | PAV-Dupe01-WW<br>3/28/2019 | Trip Blank T892<br>3/28/2019 | PAV-Vault_041119-WW<br>4/11/2019 | Trip Blank 041119<br>4/11/2019 |
|--|-------|--|--------------------------|------------------------------|--------------------------|----------------------------|------------------------------|----------------------------------|--------------------------------|
| <b>Metals via USEPA Methods 200.7 &amp; 245.1 (Hg)</b> |       |  |                          |                              |                          |                            |                              |                                  |                                |
| Arsenic  | mg/L  | 1.8  | <b>0.00440 J</b>         | NA                           | <b>0.00659 J</b>         | <b>0.00791 J</b>           | NA                           | <b>0.816 N</b>                   | NT                             |
| Barium   | mg/L  | 100  | <b>0.0847</b>            | NA                           | <b>0.0518 J</b>          | <b>0.0520 J</b>            | NA                           | <b>0.555</b>                     | NT                             |
| Beryllium  | mg/L  | NS   | ND < 0.00250             | NA                           | ND < 0.00500             | ND < 0.00500               | NA                           | ND < 0.005                       | NT                             |
| Cadmium  | mg/L  | 1  | ND < 0.00250             | NA                           | ND < 0.00500             | ND < 0.00500               | NA                           | <b>0.0162</b>                    | NT                             |
| Chromium   | mg/L  | 5  | ND < 0.00500             | NA                           | ND < 0.0100              | <b>0.00484 J</b>           | NA                           | <b>0.174</b>                     | NT                             |
| Copper   | mg/L  | 16   | <b>0.0142</b>            | NA                           | <b>0.0263</b>            | <b>0.0265</b>              | NA                           | <b>3.5</b>                       | NT                             |
| Cyanide, Total   | mg/L  | 66   | <b>0.0905</b>            | NA                           | <b>0.0421</b>            | <b>0.0406</b>              | NA                           | <b>0.310</b>                     | NT                             |
| Lead   | mg/L  | 5  | <b>0.0226 D</b>          | NA                           | <b>0.0267</b>            | <b>0.0277</b>              | NA                           | <b>1.14</b>                      | NT                             |
| Mercury  | mg/L  | 0.0008   | ND < 0.000200            | NA                           | ND < 0.000200            | ND < 0.000200              | NA                           | <b>0.00522</b>                   | NT                             |
| Nickel   | mg/L  | 14   | ND < 0.0200              | NA                           | <b>0.00323 J</b>         | <b>0.00334 J</b>           | NA                           | <b>0.245</b>                     | NT                             |
| Selenium   | mg/L  | 1  | <b>0.00880 J</b>         | NA                           | ND < 0.00500             | ND < 0.00500               | NA                           | ND < 0.005 N                     | NT                             |
| Silver   | mg/L  | 2.2  | ND < 0.00500             | NA                           | ND < 0.0100              | ND < 0.0100                | NA                           | ND < 0.010 N                     | NT                             |
| Titanium   | mg/L  | NS   | <b>0.06100</b>           | NA                           | <b>0.00821 J</b>         | <b>0.0110 J</b>            | NA                           | <b>0.383</b>                     | NT                             |
| Zinc   | mg/L  | 25   | <b>0.0397</b>            | NA                           | <b>0.0317</b>            | <b>0.0329</b>              | NA                           | <b>3.03</b>                      | NT                             |
| <b>PCBs via USEPA Method 608.3</b>                     |       |  |                          |                              |                          |                            |                              |                                  |                                |
| Aroclor-1016   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1221   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1232   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1242   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1248   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1254   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| Aroclor-1260   | µg/L  | PQL  | ND < 1.00                | NA                           | ND < 1.00                | ND < 1.00                  | NA                           | ND < 1.00                        | NT                             |
| <b>Other Parameters</b>                                |       |  |                          |                              |                          |                            |                              |                                  |                                |
| pH   | S.U.  | NS   | <b>7.63 @ 12.1 C</b>     | NA                           | <b>9.54 @ 7.4 C</b>      | <b>9.49 @ 12.1 C</b>       | NA                           | <b>7.16 @ 11.2 C</b>             | NT                             |
| Total Petroleum Hydrocarbon (Silica Gel / HEM)         | mg/L  | 100  | ND < 5.01                | NA                           | ND < 4.91 M              | ND < 4.86                  | NA                           | <b>2,360</b>                     | NT                             |
| Phosphorus, Total                                      | mg/L  | 27,030   | <b>1.72</b>              | NA                           | <b>0.21</b>              | <b>0.2</b>                 | NA                           | <b>3.75 N+</b>                   | NT                             |
| Total Solids   | mg/L  | NS   | <b>1,800</b>             | NA                           | <b>1,590</b>             | <b>1,950</b>               | NA                           | <b>4020</b>                      | NT                             |
| Total Suspended Solids                                 | mg/L  | 300,240  | <b>71</b>                | NA                           | <b>55.0</b>              | <b>48.0</b>                | NA                           | <b>3520</b>                      | NT                             |
| Total Dissolved Solids                                 | mg/L  | NS   | <b>1,800</b>             | NA                           | <b>1,580</b>             | <b>1,630</b>               | NA                           | <b>2060 S+</b>                   | NT                             |
| BOD, 5 Day   | mg/L  | 255,204  | <b>7.1</b>               | NA                           | <b>2.3 J</b>             | <b>2.7 J</b>               | NA                           | <b>165 BS+</b>                   | NT                             |

Notes:

1. Waste Characterization Criteria based upon the "recommended limits for discharge" from the Buffalo Sewer Authority's Industrial Waste Section.
2. NS indicates Not Specified.
3. NA indicates Not Applicable.
4. ND < indicates Not Detected at a concentration above the reporting limit shown.
5. **Bold text** indicates a detected result above the reporting limit.
6. µg/L indicates micrograms per liter or parts per billion.
7. mg/L indicates milligrams per liter or parts
8. J is a laboratory data qualifier that indicates "Result estimated between the quantitation limit and half the quantitation limit."
9. M is a laboratory data qualifier that indicates "Matrix spike recoveries outside QC limits. Matrix bias indicated."
10. D is a laboratory data qualifier that indicates "Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative
11. PQL indicates Practical Quantitation Limit.
12. P is a laboratory qualifier that indicates "Concentration differs by more than 40% between the primary and secondary analytical columns"
13. N is a laboratory qualifier that indicates "Matrix spike is below accepted limits (+ above)"

**Table 4 - Confirmatory Soil Sample Analytical Results**

| Target Analyte                       | Units | Cleanup Criteria | CS-B-01<br>10/25/2018 | CS-B-02<br>10/25/2018 | CS-B-03<br>10/25/2018 | CS-B-04<br>10/25/2018 | CS-B-05<br>10/25/2018 | CS-B-06<br>10/25/2018 | Trip Blank<br>10/25/2018<br>(Liquid µg/L) |
|--------------------------------------|-------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| <b>VOCs</b>                          |       |                  |                       |                       |                       |                       |                       |                       |   |
| 1,1,1-Trichloroethane                | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,1,2,2-Tetrachloroethane            | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,1,2-Trichloroethane                | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,1-Dichloroethane                   | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,1-Dichloroethylene                 | µg/Kg | --               | ND < 4.70             | ND < 4.90 L           | ND < 4.42             | ND < 3.56 L           | ND < 4.48 L           | ND < 3.99 L           | ND < 2.00                                 |
| 1,2,3-Trichlorobenzene               | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| 1,2,4-Trichlorobenzene               | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| 1,2-Dibromo-3-Chloropropane          | µg/Kg | --               | ND < 23.5             | ND < 24.5             | ND < 22.1             | ND < 17.8             | ND < 22.4             | ND < 19.9             | ND < 10.0                                 |
| 1,2-Dibromoethane                    | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,2-Dichlorobenzene                  | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,2-Dichloroethane                   | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,2-Dichloropropane                  | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,3-Dichlorobenzene                  | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,4-Dichlorobenzene                  | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| 1,4-dioxane                          | µg/Kg | --               | ND < 47.0             | ND < 49.0             | ND < 44.2             | ND < 35.6             | ND < 44.8             | ND < 39.9             | ND < 20.0                                 |
| 2-Butanone                           | µg/Kg | --               | ND < 23.5             | ND < 24.5             | ND < 22.1             | ND < 17.8             | ND < 22.4             | ND < 19.9             | ND < 10.0                                 |
| 2-Hexanone                           | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| 4-Methyl-2-Pentanone                 | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| Acetone                              | µg/Kg | --               | ND < 23.5             | ND < 24.5             | ND < 22.1             | ND < 17.8             | ND < 22.4             | ND < 19.9             | ND < 10.0                                 |
| Benzene                              | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 1.00                                 |
| Bromochloromethane                   | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| Bromodichloromethane                 | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Bromoform                            | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| Bromomethane                         | µg/Kg | --               | ND < 4.70             | ND < 4.90 L           | ND < 4.42             | ND < 3.56 L           | ND < 4.48 L           | ND < 3.99 L           | ND < 2.00                                 |
| Carbon Disulfide                     | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Carbon Tetrachloride                 | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Chlorinated Fluorocarbon (freon 113) | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Chlorobenzene                        | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Chloroethane                         | µg/Kg | --               | ND < 4.70             | ND < 4.90 L           | ND < 4.42             | ND < 3.56 L           | ND < 4.48 L           | ND < 3.99 L           | ND < 2.00                                 |
| Chloroform                           | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Chloromethane                        | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| cis-1,2-Dichloroethylene             | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| cis-1,3-Dichloropropylene            | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Cyclohexane                          | µg/Kg | --               | ND < 23.5             | ND < 24.5             | ND < 22.1             | ND < 17.8             | ND < 22.4             | ND < 19.9             | ND < 10.0                                 |
| Dibromochloromethane                 | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Dichlorodifluoromethane              | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Ethylbenzene                         | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Isopropylbenzene                     | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| m&p-Xylene                           | µg/Kg | --               | <b>2.83</b>           | <b>2.73</b>           | <b>4.83</b>           | ND < 3.56             | <b>2.79</b>           | ND < 3.99             | ND < 2.00                                 |
| Methyl Acetate                       | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Methyl tert-Butyl ether              | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Methylcyclohexane                    | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Methylene chloride                   | µg/Kg | --               | ND < 11.8             | ND < 12.2             | <b>8.76</b>           | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| o-Xylene                             | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Styrene                              | µg/Kg | --               | ND < 11.8             | ND < 12.2             | ND < 11.1             | ND < 8.89             | ND < 11.2             | ND < 9.97             | ND < 5.00                                 |
| Tetrachloroethene                    | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Toluene                              | µg/Kg | --               | ND < 4.70             | ND < 4.90             | <b>2.77</b>           | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| trans-1,2-Dichloroethylene           | µg/Kg | --               | ND < 4.70             | ND < 4.90 L           | ND < 4.42             | ND < 3.56 L           | ND < 4.48 L           | ND < 3.99 L           | ND < 2.00                                 |
| trans-1,3-Dichloropropylene          | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Trichloroethylene                    | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Trichlorofluoromethane               | µg/Kg | --               | ND < 4.70             | ND < 4.90 L           | ND < 4.42             | ND < 3.56 L           | ND < 4.48 L           | ND < 3.99 L           | ND < 2.00                                 |
| Vinyl Chloride                       | µg/Kg | --               | ND < 4.70             | ND < 4.90             | ND < 4.42             | ND < 3.56             | ND < 4.48             | ND < 3.99             | ND < 2.00                                 |
| Xylene (Total)                       | µg/Kg | --               | <b>2.83</b>           | <b>2.73</b>           | <b>4.83</b>           | ND                    | <b>2.79</b>           | ND                    | ND  |

| Table 4 - Confirmatory Soil Sample Analytical Results |       |                  |                       |                       |                       |                       |                       |                       |   |
|---|-------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| Target Analyte  | Units | Cleanup Criteria | CS-B-01<br>10/25/2018 | CS-B-02<br>10/25/2018 | CS-B-03<br>10/25/2018 | CS-B-04<br>10/25/2018 | CS-B-05<br>10/25/2018 | CS-B-06<br>10/25/2018 | Trip Blank<br>10/25/2018<br>(Liquid µg/L) |
| <b>SVOCs</b>  |       |                  |                       |                       |                       |                       |                       |                       |   |
| 1,1-Biphenyl  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 1,2-Benzphenanthracene (chrysene)                     | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,2-oxbis(1-Chloropropane)                            | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,4,5-Trichlorophenol                                 | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,4,6-Trichlorophenol                                 | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,4-Dichlorophenol                                    | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,4-Dimethylphenol                                    | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,4-Dinitrophenol                                     | µg/Kg | --               | ND < 1320             | ND < 1350             | ND < 1280             | ND < 1310             | ND < 1340             | ND < 1370             | NT  |
| 2,4-Dinitrotoluene                                    | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2,6-Dinitrotoluene                                    | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Chloronaphthalene                                   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Chlorophenol  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Methylnaphthalene                                   | µg/Kg | --               | <b>494</b>            | ND < 338              | <b>210 J</b>          | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Methylphenol  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Nitroaniline  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 2-Nitrophenol   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 3&4-Methylphenol                                      | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 3,3-Dichlorobenzidine                                 | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 3-Nitroaniline  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4,6-Dinitro-2-Methylphenol                            | µg/Kg | --               | ND < 660              | ND < 676              | ND < 641              | ND < 653              | ND < 668              | ND < 687              | NT  |
| 4-Bromophenyl Phenyl Ether                            | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4-chloro-3-Methylphenol                               | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4-Chloroaniline                                       | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4-Chlorophenyl Phenyl Ether                           | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4-Nitroaniline  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| 4-Nitrophenol   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Acenaphthene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Acenaphthylene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Acetophenone  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Anthracene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Atrazine  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benz(a)anthracene                                     | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzaldehyde  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzo(a)pyrene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzo(b)fluoranthene                                  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzo(g,h,i)perylene                                  | µg/Kg | --               | <b>517</b>            | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzo(k)fluoranthene                                  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Benzyl Butyl Phthalate                                | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| bis(2-Chloroethoxy)Methane                            | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| bis(2-chloroethyl)ether                               | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| bis(2-Ethylhexyl)Phthalate                            | µg/Kg | --               | ND < 330              | ND < 338              | <b>166 J</b>          | ND < 326              | ND < 334              | ND < 344              | NT  |
| Caprolactam   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Carbazole   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Dibenz(a,h)anthracene                                 | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Dibenzofuran  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Diethyl Phthalate                                     | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Dimethyl Phthalate                                    | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| di-n-Butyl Phthalate                                  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| di-n-Octyl Phthalate                                  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Fluoranthene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Fluorene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Hexachlorobenzene                                     | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Hexachlorobutadiene                                   | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Hexachlorocyclopentadiene                             | µg/Kg | --               | ND < 1320             | ND < 1350             | ND < 1280             | ND < 1310             | ND < 1340             | ND < 1370             | NT  |
| Hexachloroethane                                      | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Indeno(1,2,3-c,d)pyrene                               | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Isophorone  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Naphthalene   | µg/Kg | --               | <b>625</b>            | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Nitrobenzene  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| n-Nitroso-di-n-Propylamine                            | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| n-Nitrosodiphenylamine                                | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Pentachlorophenol                                     | µg/Kg | --               | ND < 660              | ND < 676              | ND < 641              | ND < 653              | ND < 668              | ND < 687              | NT  |
| Phenanthrene  | µg/Kg | --               | <b>205 J</b>          | ND < 338              | <b>183 J</b>          | ND < 326              | ND < 334              | ND < 344              | NT  |
| Phenol  | µg/Kg | --               | ND < 330              | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Pyrene  | µg/Kg | --               | <b>215 J</b>          | ND < 338              | ND < 320              | ND < 326              | ND < 334              | ND < 344              | NT  |
| Total SVOCs   | µg/Kg | 500,000          | <b>2056</b>           | ND                    | <b>559</b>            | ND                    | ND                    | ND                    | NT  |

**Table 4 - Confirmatory Soil Sample Analytical Results**

| Target Analyte                    | Units | Cleanup Criteria | PAV-GAS SO 01-031219 03/12/2019 | PAV-GAS SO 02-032219 03/22/2019 | PAV-North 1 041119 4/11/2019 | PAV-North 2 041119 4/11/2019 | PAV-North 2 DUP-041119 4/11/2020 | PAV-West 1 041119 4/11/2019 | PAV-East 1 041119 4/11/2019 | PAV-East 2 041119 4/11/2019 | PAV-Bottom 1-041119 4/11/2019 | PAV-Bottom 2-041119 4/11/2019 |
|-----------------------------------|-------|------------------|---------------------------------|---------------------------------|------------------------------|------------------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| <b>SVOCs</b>                      |       |                  |                                 |                                 |                              |                              |                                  |                             |                             |                             |                               |                               |
| 1,1-Biphenyl                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 1,2-Benzphenanthracene (chrysene) | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1350</b>                 | ND < 353                      | <b>728</b>                    |
| 2,2-oxybis(1-Chloropropane)       | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,4,5-Trichlorophenol             | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,4,6-Trichlorophenol             | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,4-Dichlorophenol                | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,4-Dimethylphenol                | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,4-Dinitrophenol                 | µg/Kg | --               | ND < 1160                       | ND < 1050                       | ND < 1500                    | ND < 1410 M                  | ND < 1410                        | ND < 1770                   | ND < 1400                   | ND < 1320                   | ND < 1410                     | ND < 1340                     |
| 2,4-Dinitrotoluene                | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2,6-Dinitrotoluene                | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2-Chloronaphthalene               | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2-Chlorophenol                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2-Methylnaphthalene               | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>545</b>                  | ND < 353                      | ND < 335                      |
| 2-Methylphenol                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2-Nitroaniline                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 2-Nitrophenol                     | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 3&4-Methylphenol                  | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 3,3-Dichlorobenzidine             | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 3-Nitroaniline                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4,6-Dinitro-2-Methylphenol        | µg/Kg | --               | ND < 580                        | ND < 526                        | ND < 749                     | ND < 704                     | ND < 706                         | ND < 885                    | ND < 701                    | ND < 662                    | ND < 706                      | ND < 669                      |
| 4-Bromophenyl Phenyl Ether        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4-chloro-3-Methylphenol           | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4-Chloroaniline                   | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4-Chlorophenyl Phenyl Ether       | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4-Nitroaniline                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| 4-Nitrophenol                     | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Acenaphthene                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1040</b>                 | ND < 353                      | <b>1440</b>                   |
| Acenaphthylene                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>608</b>                  | ND < 353                      | ND < 335                      |
| Acetophenone                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Anthracene                        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1490</b>                 | ND < 353                      | <b>1380</b>                   |
| Atrazine                          | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Benz(a)anthracene                 | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1540</b>                 | ND < 353                      | <b>799</b>                    |
| Benzaldehyde                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Benzo(a)pyrene                    | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | <b>415 J</b>                | ND < 351                    | <b>1100</b>                 | ND < 353                      | <b>352</b>                    |
| Benzo(b)fluoranthene              | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1010</b>                 | ND < 353                      | <b>347</b>                    |
| Benzo(g,h,i)perylene              | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>985</b>                  | ND < 353                      | ND < 335                      |
| Benzo(k)fluoranthene              | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>649</b>                  | ND < 353                      | <b>272 J</b>                  |
| Benzyl Butyl Phthalate            | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| bis(2-Chloroethoxy)Methane        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| bis(2-chloroethyl)ether           | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| bis(2-Ethylhexyl)Phthalate        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Caprolactam                       | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Carbazole                         | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Dibenz(a,h)anthracene             | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Dibenzofuran                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>216 J</b>                | ND < 353                      | ND < 335                      |
| Diethyl Phthalate                 | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Dimethyl Phthalate                | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| di-n-Butyl Phthalate              | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| di-n-Octyl Phthalate              | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Fluoranthene                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>3650</b>                 | ND < 353                      | <b>2410</b>                   |
| Fluorene                          | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>1100</b>                 | ND < 353                      | <b>2080</b>                   |
| Hexachlorobenzene                 | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Hexachlorobutadiene               | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Hexachlorocyclopentadiene         | µg/Kg | --               | ND < 1160                       | ND < 1050                       | ND < 1500                    | ND < 1410                    | ND < 1410                        | ND < 1770                   | ND < 1400                   | ND < 1320                   | ND < 1410                     | ND < 1340                     |
| Hexachloroethane                  | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Indeno(1,2,3-c,d)pyrene           | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>710</b>                  | ND < 353                      | ND < 335                      |
| Isophorone                        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Naphthalene                       | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | <b>266 J</b>                | ND < 351                    | <b>414</b>                  | ND < 353                      | ND < 335                      |
| Nitrobenzene                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| n-Nitroso-di-n-Propylamine        | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| n-Nitrosodiphenylamine            | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Pentachlorophenol                 | µg/Kg | --               | ND < 580                        | ND < 526                        | ND < 749                     | ND < 704                     | ND < 706                         | ND < 885                    | ND < 701                    | ND < 331                    | ND < 706                      | ND < 669                      |
| Phenanthrene                      | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | <b>4390</b>                 | ND < 353                      | <b>3340</b>                   |
| Phenol                            | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352                     | ND < 353                         | ND < 442                    | ND < 351                    | ND < 331                    | ND < 353                      | ND < 335                      |
| Pyrene                            | µg/Kg | --               | ND < 290                        | ND < 263                        | ND < 374                     | ND < 352 M                   | ND < 353                         | <b>363 J</b>                | ND < 351                    | <b>5120</b>                 | ND < 353                      | <b>2790</b>                   |
| Total SVOCs                       | µg/Kg | 500,000          | ND                              | ND                              | ND                           | ND                           | ND                               | <b>1044</b>                 | ND                          | <b>25917</b>                | ND                            | <b>15938</b>                  |

| Table 4 - Confirmatory Soil Sample Analytical Results |       |                  |                                     |                                   |                                     |                                    |
|---|-------|------------------|-------------------------------------|-----------------------------------|-------------------------------------|------------------------------------|
| Target Analyte  | Units | Cleanup Criteria | PAV-BOTTOM 3<br>042419<br>4/24/2019 | PAV-WEST 2<br>042419<br>4/24/2019 | PAV-SOUTH 1-<br>042419<br>4/24/2019 | PAV-SOUTH 2<br>042419<br>4/24/2019 |
| <b>SVOCs</b>  |       |                  |                                     |                                   |                                     |                                    |
| 1,1-Biphenyl  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>354</b>                          | ND < 345                           |
| 1,2-Benzphenanthracene (chrysene)                     | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>720</b>                          | ND < 345                           |
| 2,2-oxybis(1-Chloropropane)                           | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,4,5-Trichlorophenol                                 | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,4,6-Trichlorophenol                                 | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,4-Dichlorophenol                                    | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,4-Dimethylphenol                                    | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,4-Dinitrophenol                                     | µg/Kg | --               | ND < 1360                           | ND < 1480                         | ND < 1270                           | ND < 1380                          |
| 2,4-Dinitrotoluene                                    | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2,6-Dinitrotoluene                                    | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2-Chloronaphthalene                                   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2-Chlorophenol  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2-Methylnaphthalene                                   | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>2020</b>                         | ND < 345                           |
| 2-Methylphenol  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2-Nitroaniline  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 2-Nitrophenol   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 3&4-Methylphenol                                      | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 3,3-Dichlorobenzidine                                 | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 3-Nitroaniline  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4,6-Dinitro-2-Methylphenol                            | µg/Kg | --               | ND < 678                            | ND < 738                          | ND < 636                            | ND < 690                           |
| 4-Bromophenyl Phenyl Ether                            | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4-chloro-3-Methylphenol                               | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4-Chloroaniline                                       | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4-Chlorophenyl Phenyl Ether                           | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4-Nitroaniline  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| 4-Nitrophenol   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Acenaphthene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>1620</b>                         | ND < 345                           |
| Acenaphthylene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>301 J</b>                        | ND < 345                           |
| Acetophenone  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Anthracene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>1320</b>                         | ND < 345                           |
| Atrazine  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Benz(a)anthracene                                     | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>801</b>                          | ND < 345                           |
| Benzaldehyde  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Benzo(a)pyrene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>244 J</b>                        | ND < 345                           |
| Benzo(b)fluoranthene                                  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Benzo(g,h,i)perylene                                  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Benzo(k)fluoranthene                                  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Benzyl Butyl Phthalate                                | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| bis(2-Chloroethoxy)Methane                            | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| bis(2-chloroethyl)ether                               | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| bis(2-Ethylhexyl)Phthalate                            | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Caprolactam   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Carbazole   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Dibenz(a,h)anthracene                                 | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Dibenzofuran  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>449</b>                          | ND < 345                           |
| Diethyl Phthalate                                     | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Dimethyl Phthalate                                    | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| di-n-Butyl Phthalate                                  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| di-n-Octyl Phthalate                                  | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Fluoranthene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>1650</b>                         | ND < 345                           |
| Fluorene  | µg/Kg | --               | ND < 339                            | ND < 369                          | <b>1740</b>                         | ND < 345                           |
| Hexachlorobenzene                                     | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Hexachlorobutadiene                                   | µg/Kg | --               | ND < 339                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Hexachlorocyclopentadiene                             | µg/Kg | --               | ND < 1360                           | ND < 1480                         | ND < 1270                           | ND < 1380                          |
| Hexachloroethane                                      | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Indeno(1,2,3-c,d)pyrene                               | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Isophorone  | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Naphthalene   | µg/Kg | --               | ND < 290                            | ND < 369                          | <b>484</b>                          | ND < 345                           |
| Nitrobenzene  | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| n-Nitroso-di-n-Propylamine                            | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| n-Nitrosodiphenylamine                                | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Pentachlorophenol                                     | µg/Kg | --               | ND < 678                            | ND < 738                          | ND < 636                            | ND < 690                           |
| Phenanthrene  | µg/Kg | --               | ND < 290                            | ND < 369                          | <b>6270</b>                         | ND < 345                           |
| Phenol  | µg/Kg | --               | ND < 290                            | ND < 369                          | ND < 318                            | ND < 345                           |
| Pyrene  | µg/Kg | --               | ND < 290                            | ND < 369                          | <b>2280</b>                         | ND < 345                           |
| Total SVOCs   | µg/Kg | 500,000          | ND                                  | ND                                | <b>20253</b>                        | ND                                 |

- Notes:**
1. µg/Kg indicates micrograms per kilogram.
  2. µg/L indicates micrograms per liter.
  3. NT indicates not tested.
  4. ND indicates non-detect.
  5. SVOCs indicates semi-volatile organic compounds.
  6. Bold text indicates detected result above reporting limit.
  7. "J" - Result estimated between the quantitation limit and half the quantitation limit.
  8. "M" - Matrix spike recoveries outside QC limits. Matrix bias indicated.
  9. "L" - Laboratory Control Sample recovery outside acceptable QC limits.



| <b>Table 5A - ESMI LTDD Treatment Waste Disposal Summary</b> |             |                         |                 |                          |                      |                |
|--|-------------|-------------------------|-----------------|--------------------------|----------------------|----------------|
| <b>Load No.</b>  | <b>Date</b> | <b>Trucking Company</b> | <b>Truck ID</b> | <b>License Plate No.</b> | <b>Source Area</b>   | <b>Tonnage</b> |
| 001  | 4/17/19     | Long Horn               | 862             | 70383PC                  | Remedial Excavation  | 40.89          |
| 002  | 4/17/19     | Long Horn               | 159             | 72423PC                  | Remedial Excavation  | 39.09          |
| 003  | 4/17/19     | Long Horn               | 858             | 67750PC                  | Remedial Excavation  | 41.38          |
| 004  | 4/18/19     | Long Horn               | 863             | 71238PC                  | Remedial Excavation  | 37.37          |
| 005  | 4/18/19     | Long Horn               | 467             | 39462PC                  | Remedial Excavation  | 36.28          |
| 006  | 4/30/19     | Long Horn               | 668             | 59852PC                  | Remedial Excavation  | 36.04          |
| 007  | 4/30/19     | Long Horn               | 830             | 37756PC                  | Remedial Excavation  | 33.28          |
| 008  | 4/30/19     | Long Horn               | 858             | 67750PC                  | Remedial Excavation  | 38.97          |
| 009  | 5/1/19      | Long Horn               | 862             | 70383PC                  | Remedial Excavation  | 33.47          |
| 010  | 5/1/19      | Long Horn               | 95              |                          | Remedial Excavation  | 35.94          |
|  |             |                         |                 |                          |                      |                |
|  |             |                         |                 |                          | <b>Total Tonnage</b> | <b>372.71</b>  |



| <b>Table 5B - Waste Management (Mill Seat LF) Profile # 119712NY - MGP Contaminated Soil &amp; Debris Waste Disposal Summary (Slab Removal - October 2018)</b> |                        |             |                         |                 |                          |                      |                |
|--|------------------------|-------------|-------------------------|-----------------|--------------------------|----------------------|----------------|
| <b>Load No.</b>  | <b>WM Manifest No.</b> | <b>Date</b> | <b>Trucking Company</b> | <b>Truck ID</b> | <b>License Plate No.</b> | <b>Source Area</b>   | <b>Tonnage</b> |
| 001  | 7332377                | 10/24/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 22.70          |
| 002  | 7332378                | 10/24/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 17.49          |
| 003  | 7332379                | 10/24/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 19.44          |
| 004  | 7332380                | 10/25/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 21.37          |
| 005  | 7332381                | 10/25/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 22.11          |
| 006  | 7332382                | 10/25/2018  | GreenTech               | G-16            | 72864 MJ (NYS)           | Access Road          | 14.86          |
|  |                        |             |                         |                 |                          |                      |                |
|  |                        |             |                         |                 |                          | <b>Total Tonnage</b> | <b>117.97</b>  |

**Table 5C - Waste Management (Mill Seat LF) Profile # 119712NY - MGP Contaminated Soil & Debris Waste Disposal Summary (Remedial Action)**

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area  | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|--------------|---------|
| 001      | 7769679         | 2/19/2019 | Magnum Trucking  | MT-44    | 84598MD           | Spoilpile    | 21.78   |
| 002      | 7769680         | 2/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | Spoilpile    | 21.83   |
| 003      | 7769681         | 2/19/2019 | Magnum Trucking  | MT-44    | 84598MD           | Spoilpile    | 22.91   |
| 004      | 7769682         | 2/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | Spoilpile    | 24.56   |
| 005      | 7769683         | 2/19/2019 | Magnum Trucking  | MT-44    | 84598MD           | Spoilpile    | 23.95   |
| 006      | 7769684         | 2/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | Spoilpile    | 23.64   |
| 007      | 7769685         | 2/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | Stockpile/NE | 26.76   |
| 008      | 7769686         | 2/20/2019 | NCH Transport    | 83       | 77610ML           | Stockpile/NE | 22.41   |
| 009      | 7769687         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | Stockpile/NE | 23.57   |
| 010      | 7769688         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | Stockpile/NE | 27.11   |
| 011      | 7769689         | 2/20/2019 | KMS Hauling      | 5        | 93775MK           | Stockpile/NE | 26.17   |
| 012      | 7769690         | 2/20/2019 | Magnum Trucking  | MT-44    | 84598MD           | Stockpile/NE | 26.54   |
| 013      | 7769691         | 2/20/2019 | Dirt Trucking    | DT-11    | 13676TC           | Stockpile/NE | 25.72   |
| 014      | 7769692         | 2/20/2019 | NCH Transport    | 83       | 77610ML           | Stockpile/NE | 23.25   |
| 015      | 7769693         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | Stockpile/NE | 25.49   |
| 016      | 7769694         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | Stockpile/NE | 27.36   |
| 017      | 7769695         | 2/20/2019 | KMS Hauling      | 5        | 93775MK           | Stockpile/NE | 26.85   |
| 018      | 7769696         | 2/20/2019 | Magnum Trucking  | MT-44    | 84598MD           | Stockpile/NE | 26.15   |
| 019      | 7769697         | 2/20/2019 | Dirt Trucking    | DT-11    | 13676TC           | Stockpile/NE | 25.04   |
| 020      | 7769698         | 2/20/2019 | NCH Transport    | 83       | 77610ML           | Stockpile/NE | 23.68   |
| 021      | 7769699         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | Stockpile/NE | 22.55   |
| 022      | 7769700         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | Stockpile/NE | 22.1    |
| 023      | 7769701         | 2/20/2019 | KMS Hauling      | 5        | 93775MK           | Stockpile/NE | 24.37   |
| 024      | 7769702         | 2/20/2019 | Magnum Trucking  | MT-44    | 84598MD           | Stockpile/NE | 24.33   |
| 025      | 7769703         | 2/20/2019 | Dirt Trucking    | DT-11    | 13676TC           | Stockpile/NE | 24.28   |
| 026      | 7769704         | 2/20/2019 | NCH Transport    | 83       | 77610ML           | Stockpile/NE | 22.53   |
| 027      | 7769705         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | Stockpile/NE | 23.78   |
| 028      | 7769706         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | North        | 24.24   |
| 029      | 7769707         | 2/20/2019 | KMS Hauling      | 5        | 93775MK           | North        | 26.67   |
| 030      | 7769708         | 2/20/2019 | Magnum Trucking  | MT-44    | 84598MD           | North        | 25.4    |
| 031      | 7769709         | 2/20/2019 | Dirt Trucking    | DT-11    | 13676TC           | North        | 26.43   |
| 032      | 7769710         | 2/20/2019 | Paradise Hauling | 83       | 77610ML           | North        | 21.2    |
| 033      | 7769711         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | North        | 20.16   |
| 034      | 7769712         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | North        | 24.79   |
| 035      | 7769713         | 2/20/2019 | KMS Hauling      | 5        | 93775MK           | North        | 20.02   |
| 036      | 7769714         | 2/20/2019 | Magnum Trucking  | MT-44    | 84598MD           | North        | 23.53   |
| 037      | 7769715         | 2/20/2019 | Dirt Trucking    | DT-11    | 13676TC           | North        | 23.63   |
| 038      | 7769716         | 2/20/2019 | Paradise Hauling | 83       | 77610ML           | North        | 19.65   |
| 039      | 7769717         | 2/20/2019 | R&K Trucking     | RK-14    | 49587ML           | Northwest    | 20.28   |
| 040      | 7769718         | 2/20/2019 | NCH Transport    | 30       | 17242ML           | Northwest    | 20.65   |
| 041      | 7769719         | 2/20/2019 | KMS Hauling      | 5        | 7769719           | Northwest    | 21.63   |
| 042      | 7769720         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest    | 23.11   |
| 043      | 7769721         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest    | 24.21   |
| 044      | 7769722         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest    | 24.96   |
| 045      | 7769723         | 2/21/2019 | KMS Hauling      | 5        | 93775MK           | Northwest    | 25.74   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|-------------|---------|
| 046      | 7769724         | 2/21/2019 | NCH Transport    | 30       | 17242ML           | Northwest   | 26.6    |
| 047      | 7769725         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest   | 23.23   |
| 048      | 7769726         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest   | 23.28   |
| 049      | 7769727         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest   | 25.34   |
| 050      | 7769728         | 2/21/2019 | KMS Hauling      | 5        | 93775MK           | Northwest   | 26.54   |
| 051      | 7769729         | 2/21/2019 | NCH Transport    | 30       | 17242ML           | Northwest   | 27.69   |
| 052      | 7769730         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest   | 25.6    |
| 053      | 7769731         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest   | 25.35   |
| 054      | 7769732         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest   | 24.98   |
| 055      | 7769733         | 2/21/2019 | KMS Hauling      | 5        | 93775MK           | Northwest   | 24.89   |
| 056      | 7769734         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest   | 26.9    |
| 057      | 7769735         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest   | 24.29   |
| 058      | 7769736         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest   | 21.25   |
| 059      | 7769737         | 2/21/2019 | NCH Transport    | 99       | 11539ME           | Northwest   | 17.28   |
| 060      | 7769738         | 2/21/2019 | KMS Hauling      | 5        | 93775MK           | Northwest   | 22.1    |
| 061      | 7769739         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest   | 20.38   |
| 062      | 7769740         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest   | 22.58   |
| 063      | 7769741         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest   | 21.49   |
| 064      | 7769742         | 2/21/2019 | NCH Transport    | 99       | 11539ME           | Northwest   | 21.63   |
| 065      | 7769743         | 2/21/2019 | KMS Hauling      | 5        | 93775MK           | Northwest   | 21.5    |
| 066      | 7769744         | 2/21/2019 | R&K Trucking     | 14       | 49587ML           | Northwest   | 22.33   |
| 067      | 7769745         | 2/21/2019 | Magnum Trucking  | 44       | 84598MD           | Northwest   | 20.31   |
| 068      | 7769746         | 2/21/2019 | Dirt Trucking    | DT11     | 13676TC           | Northwest   | 21.47   |
| 069      | 7769747         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 28.74   |
| 070      | 7769748         | 2/25/2019 | NCH Transport    | 30       | 17242ML           | Northeast2  | 31.23   |
| 071      | 7769749         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 27.84   |
| 072      | 7769750         | 2/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast2  | 24.2    |
| 073      | 7769751         | 2/25/2019 | KMS Hauling      | 5        | 93775MK           | Northeast2  | 27.59   |
| 074      | 7769752         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 24.66   |
| 075      | 7769753         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 24.96   |
| 076      | 7769754         | 2/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast2  | 21.34   |
| 077      | 7769755         | 2/25/2019 | KMS Hauling      | KMS      | 93775MK           | Northeast2  | 25.22   |
| 078      | 7769756         | 2/25/2019 | NCH Transport    | 30       | 17242ML           | Northeast2  | 26.35   |
| 079      | 7769757         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 20.64   |
| 080      | 7769758         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 23.23   |
| 081      | 7769759         | 2/25/2019 | NCH Transport    | 30       | 17242ML           | Northeast2  | 24.51   |
| 082      | 7769760         | 2/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast2  | 21.93   |
| 083      | 7769761         | 2/25/2019 | KMS Hauling      | 5        | 93775MK           | Northeast2  | 22.66   |
| 084      | 7769762         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 21.92   |
| 085      | 7769763         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 23.62   |
| 086      | 7769764         | 2/25/2019 | NCH Transport    | 30       | 17242ML           | Northeast2  | 26.1    |
| 087      | 7769765         | 2/25/2019 | KMS Hauling      | 5        | 93775MK           | Northeast2  | 23.61   |
| 088      | 7769766         | 2/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast2  | 21.98   |
| 089      | 7769767         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 22.44   |
| 090      | 7769768         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 25.28   |
| 091      | 7769769         | 2/25/2019 | NCH Transport    | 30       | 17242ML           | Northeast2  | 25.52   |
| 092      | 7769770         | 2/25/2019 | KMS Hauling      | 5        | 93775MK           | Northeast2  | 23.52   |
| 093      | 7769771         | 2/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast2  | 23.19   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|-------------|---------|
| 094      | 7769772         | 2/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northeast2  | 26.66   |
| 095      | 7769773         | 2/25/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast2  | 27.54   |
| 096      | 7769774         | 2/25/2019 | KMS Hauling      | 5        | 93775MK           | Northeast2  | 27.38   |
| 097      | 7769775         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 24.59   |
| 098      | 7769776         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 23.91   |
| 099      | 7769777         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 24.49   |
| 100      | 7769778         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 23.69   |
| 101      | 7769779         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 23.68   |
| 102      | 7769780         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 21.34   |
| 103      | 7769781         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 21.3    |
| 104      | 7769782         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 24.68   |
| 105      | 7769783         | 2/26/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast3  | 25.27   |
| 106      | 7769784         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 26.45   |
| 107      | 7769785         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 25.71   |
| 108      | 7769786         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 22.56   |
| 109      | 7769787         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 23.84   |
| 110      | 7769788         | 2/26/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast3  | 25.65   |
| 111      | 7769789         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 25.95   |
| 112      | 7769790         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 24.52   |
| 113      | 7769791         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 24.8    |
| 114      | 7769792         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 29.07   |
| 115      | 7769793         | 2/26/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast3  | 25.54   |
| 116      | 7769794         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 24.35   |
| 117      | 7769795         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 20.72   |
| 118      | 7769769         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 20.51   |
| 119      | 7769797         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 23.1    |
| 120      | 7769798         | 2/26/2019 | R&K Trucking     | RK-14    | 49587ML           | Northeast3  | 25.53   |
| 121      | 7769799         | 2/26/2019 | Dirt Trucking    | DT11     | 13676TC           | Northeast3  | 25.9    |
| 122      | 7769800         | 2/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 25.36   |
| 123      | 7769801         | 2/26/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 24.07   |
| 124      | 7769802         | 2/26/2019 | NCH Transport    | 32       | 17241ML           | Northeast3  | 24.26   |
| 125      | 7769803         | 2/28/2019 | KMS Hauling      | 5        | 93775MK           | Northwest 3 | 24.12   |
| 126      | 7769804         | 2/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 24      |
| 127      | 7769805         | 2/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northwest3  | 21.85   |
| 128      | 7769806         | 2/28/2019 | KMS Hauling      | 5        | 93775MK           | Northwest3  | 20.45   |
| 129      | 7769807         | 2/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 24.48   |
| 130      | 7769808         | 2/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northwest3  | 23.93   |
| 131      | 7769809         | 2/28/2019 | KMS Hauling      | 5        | 93775MK           | Northwest3  | 24.8    |
| 132      | 7769810         | 2/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 26.68   |
| 133      | 7769811         | 2/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northwest3  | 23.01   |
| 134      | 7769812         | 2/28/2019 | KMS Hauling      | 5        | 93775MK           | Northeast3  | 24.63   |
| 135      | 7769813         | 2/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | Northeast3  | 24.67   |
| 136      | 7769814         | 3/4/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northeast3  | 22.9    |
| 137      | 7769815         | 3/4/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northeast3  | 25.47   |
| 138      | 7769816         | 3/4/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northeast3  | 23.82   |
| 139      | 7769817         | 3/4/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northeast3  | 25.64   |
| 140      | 7769818         | 3/6/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 22.2    |
| 141      | 7769819         | 3/6/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 22.44   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|-------------|---------|
| 142      | 7769820         | 3/6/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 23.47   |
| 143      | 7769821         | 3/6/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 22.98   |
| 144      | 7769822         | 3/6/2019  | Dirt Trucking    | DT-11    | 13676TC           | Northwest3  | 30.34   |
| 145      | 7769823         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 28.42   |
| 146      | 7769824         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 29.17   |
| 147      | 7769825         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 27.44   |
| 148      | 7769826         | 3/7/2019  | CC Trucking      | CC-30    | 93301MK           | SE1         | 23.84   |
| 149      | 7769827         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 27.19   |
| 150      | 7769828         | 3/7/2019  | CC Trucking      | CC-30    | 93301MK           | SE1         | 25.85   |
| 151      | 7769829         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 27.33   |
| 152      | 7769830         | 3/7/2019  | CC Trucking      | CC-30    | 93301MK           | SE1         | 24.67   |
| 153      | 7769831         | 3/7/2019  | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 29.89   |
| 154      | 7769832         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 27.43   |
| 155      | 7769833         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 26.48   |
| 156      | 7769834         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 24.98   |
| 157      | 7769835         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 24.4    |
| 158      | 7769836         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 25.09   |
| 159      | 7769837         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 24.73   |
| 160      | 7769838         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 23.54   |
| 161      | 7769839         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 25.15   |
| 162      | 7769840         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 22.93   |
| 163      | 7769841         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 24.6    |
| 164      | 7769842         | 3/11/2019 | Magnum Trucking  | MT-44    | 84598MD           | SE1         | 22.68   |
| 165      | 7769843         | 3/11/2019 | Dirt Trucking    | DT-11    | 13676TC           | SE1         | 22.93   |
| 166      | 7769844         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 23.46   |
| 167      | 7769845         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 26.54   |
| 168      | 7769846         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 25.14   |
| 169      | 7769847         | 3/12/2019 | Magnum Trucking  | MT-44    | 84598MD           | S1          | 23.92   |
| 170      | 7769848         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 24.01   |
| 171      | 7769849         | 3/12/2019 | Magnum Trucking  | MT-44    | 84598MD           | S1          | 22.3    |
| 172      | 7769850         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 21.98   |
| 173      | 7769851         | 3/12/2019 | Magnum Trucking  | MT-44    | 84598MD           | S1          | 20.85   |
| 174      | 7769852         | 3/12/2019 | Dirt Trucking    | DT-11    | 13676TC           | S1          | 20.82   |
| 175      | 7769853         | 3/12/2019 | Magnum Trucking  | MT-44    | 84598MD           | S1          | 21.04   |
| 176      | 7769854         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 20.29   |
| 177      | 7769855         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 21.22   |
| 178      | 7769856         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 20.61   |
| 179      | 7769857         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 20.58   |
| 180      | 7769858         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 21.31   |
| 181      | 7769859         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 24.28   |
| 182      | 7769860         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 24.48   |
| 183      | 7769861         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 25.06   |
| 184      | 7769862         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 23.74   |
| 185      | 7769863         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 20.69   |
| 186      | 7769864         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 21.91   |
| 187      | 7769865         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 21.42   |
| 188      | 7769866         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 22.43   |
| 189      | 7769867         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 23.26   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|-------------|---------|
| 190      | 7769868         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 24.58   |
| 191      | 7769869         | 3/13/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 26.29   |
| 192      | 7769870         | 3/13/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 27.05   |
| 193      | 7769871         | 3/13/2019 | R&K Trucking     | RK-14    | 49587ML           | S           | 23.00   |
| 194      | 7769872         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 24.54   |
| 195      | 7769873         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | S           | 24.2    |
| 196      | 7769874         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | S           | 27.01   |
| 197      | 7769875         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.93   |
| 198      | 7769876         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 24.72   |
| 199      | 7769877         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.06   |
| 200      | 7769878         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 24.81   |
| 201      | 7769879         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 25.44   |
| 202      | 7769880         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 25.74   |
| 203      | 7769881         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 19.07   |
| 204      | 7769882         | 3/14/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 21.59   |
| 205      | 7769883         | 3/14/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.84   |
| 206      | 7769884         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC2         | 25.63   |
| 207      | 7769885         | 3/18/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC2         | 23.84   |
| 208      | 7769886         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC2         | 22.46   |
| 209      | 7769887         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC2         | 24.73   |
| 210      | 7769888         | 3/18/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC2         | 24.03   |
| 211      | 7769889         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC2         | 22.92   |
| 212      | 7769890         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC3         | 23.46   |
| 213      | 7769891         | 3/18/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC3         | 23.66   |
| 214      | 7769892         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC3         | 21.36   |
| 215      | 7769893         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC3         | 21.98   |
| 216      | 7769894         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC3         | 21.6    |
| 217      | 7769895         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC3         | 19.31   |
| 218      | 7769896         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC3         | 20.43   |
| 219      | 7769897         | 3/18/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC3         | 21.97   |
| 220      | 7769898         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC3         | 18.45   |
| 221      | 7769899         | 3/18/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC3         | 21.35   |
| 222      | 7769900         | 3/18/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC3         | 21.71   |
| 223      | 7769901         | 3/18/2019 | Paradise Hauling | 83       | 77610ML           | SC3         | 21.25   |
| 224      | 7769902         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 26.67   |
| 225      | 7769903         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 27.58   |
| 226      | 7769904         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 25.79   |
| 227      | 7769905         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 28.7    |
| 228      | 7769906         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 27.95   |
| 229      | 7769907         | 3/19/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 25.31   |
| 230      | 7769908         | 3/21/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 27.24   |
| 231      | 7769909         | 3/21/2019 | NCH Transport    | NCH-34   | 17237ML           | SC1         | 28.43   |
| 232      | 7769910         | 3/21/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 28.79   |
| 233      | 7769911         | 3/21/2019 | NCH Transport    | NCH-34   | 17237ML           | SC1         | 26.5    |
| 234      | 7769912         | 3/21/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 28.04   |
| 235      | 7769913         | 3/21/2019 | NCH Transport    | NCH-34   | 17237ML           | SC1         | 23.95   |
| 236      | 7769914         | 3/21/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.73   |
| 237      | 7769915         | 3/21/2019 | NCH Transport    | NCH-34   | 17237ML           | SC1         | 21.99   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|-------------|---------|
| 238      | 7769916         | 3/22/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.78   |
| 239      | 7769917         | 3/22/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 21.86   |
| 240      | 7769918         | 3/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 24.1    |
| 241      | 7769919         | 3/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.38   |
| 242      | 7769920         | 3/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.94   |
| 243      | 7769921         | 3/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 24.27   |
| 244      | 7769922         | 3/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.94   |
| 245      | 7769923         | 3/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.98   |
| 246      | 7769924         | 3/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.68   |
| 247      | 7769925         | 3/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.87   |
| 248      | 7769926         | 3/25/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.46   |
| 249      | 7769927         | 3/25/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.33   |
| 250      | 7769928         | 3/26/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.93   |
| 251      | 7769929         | 3/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 23.07   |
| 252      | 7769930         | 3/26/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 23.96   |
| 253      | 7769931         | 3/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.97   |
| 254      | 7769932         | 3/26/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 20.69   |
| 255      | 7769933         | 3/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.03   |
| 256      | 7769934         | 3/26/2019 | Dirt Trucking    | DT-11    | 13676TC           | SC1         | 21.35   |
| 257      | 7769935         | 3/26/2019 | Magnum Trucking  | MT-44    | 84598MD           | SC1         | 22.08   |
| 258      | 7769936         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.57   |
| 259      | 7769937         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 24.36   |
| 260      | 7769938         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 20.04   |
| 261      | 7769939         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 23.63   |
| 262      | 7769940         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.11   |
| 263      | 7769941         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 23.28   |
| 264      | 7769942         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.91   |
| 265      | 7769943         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 24.62   |
| 266      | 7769944         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.76   |
| 267      | 7769945         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 23.14   |
| 268      | 7769946         | 3/27/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 25.62   |
| 269      | 7769947         | 3/27/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 24.62   |
| 270      | 7769948         | 3/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 24.33   |
| 271      | 7769949         | 3/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 25.75   |
| 272      | 7769950         | 3/28/2019 | R&K Trucking     | RK-14    | 49587ML           | C           | 25.41   |
| 273      | 7769951         | 3/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 24.46   |
| 274      | 7769952         | 3/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 23.03   |
| 275      | 7769953         | 3/28/2019 | R&K Trucking     | RK-14    | 49587ML           | C           | 22.56   |
| 276      | 7769954         | 3/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.24   |
| 277      | 7769955         | 3/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 24.15   |
| 278      | 7769956         | 3/28/2019 | R&K Trucking     | RK-14    | 49587ML           | C           | 22.61   |
| 279      | 7769957         | 3/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 24.69   |
| 280      | 7769958         | 3/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 25.37   |
| 281      | 7769959         | 3/28/2019 | R&K Trucking     | RK-14    | 49587ML           | C           | 21.56   |
| 282      | 7769960         | 3/28/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 23.31   |
| 283      | 7769961         | 3/28/2019 | Dirt Trucking    | DT-11    | 13676TC           | C           | 23.46   |
| 284      | 7769962         | 3/28/2019 | R&K Trucking     | RK-14    | 49587ML           | C           | 23.06   |
| 285      | 7769963         | 3/29/2019 | Magnum Trucking  | MT-44    | 84598MD           | C           | 26.28   |

| Load No. | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area  | Tonnage |
|----------|-----------------|-----------|------------------|----------|-------------------|--------------|---------|
| 286      | 7769964         | 3/29/2019 | Dirt Trucking    | DT-11    | 13676TC           | C            | 19.53   |
| 287      | 7769965         | 3/29/2019 | Dirt Trucking    | DT-11    | 13676TC           | C            | 25.35   |
| 288      | 7769966         | 3/29/2019 | Dirt Trucking    | DT-11    | 13676TC           | C            | 22.32   |
| 289      | 7769967         | 3/29/2019 | Dirt Trucking    | DT-11    | 13676TC           | C            | 25.37   |
| 290      | 7769968         | 4/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 21.26   |
| 291      | 7769969         | 4/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 22.03   |
| 292      | 7769970         | 4/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 24.38   |
| 293      | 7769971         | 4/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 20.67   |
| 294      | 7769972         | 4/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 24.62   |
| 295      | 7769973         | 4/3/2019  | R&K Trucking     | RK-14    | 49587ML           | C            | 23.42   |
| 296      | 7769974         | 4/3/2019  | R&K Trucking     | RK-14    | 49587ML           | C            | 21.32   |
| 297      | 7769975         | 4/3/2019  | R&K Trucking     | RK-14    | 49587ML           | C            | 22.63   |
| 298      | 7769976         | 4/3/2019  | R&K Trucking     | RK-14    | 49587ML           | C            | 22.23   |
| 299      | 7769977         | 4/3/2019  | R&K Trucking     | RK-14    | 49587ML           | C            | 22.52   |
| 300      | 7769978         | 4/4/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 24.01   |
| 301      | 7769979         | 4/4/2019  | Magnum Trucking  | MT-44    | 84598MD           | C            | 23.74   |
| 302      | 7769980         | 4/8/2019  | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.47   |
| 303      | 7769981         | 4/8/2019  | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 22.13   |
| 304      | 7769982         | 4/8/2019  | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 20.18   |
| 305      | 7769983         | 4/9/2019  | Dirt Trucking    | DT-11    | 13676TC           | c            | 20.26   |
| 306      | 7769984         | 4/9/2019  | Dirt Trucking    | DT-11    | 13676TC           | c            | 24.24   |
| 307      | 7769985         | 4/9/2019  | Dirt Trucking    | DT-11    | 13676TC           | c            | 22.68   |
| 308      | 7769986         | 4/9/2019  | Dirt Trucking    | DT-11    | 13676TC           | c            | 24.65   |
| 309      | 7769987         | 4/9/2019  | Dirt Trucking    | DT-11    | 13676TC           | c            | 24.71   |
| 310      | 7769988         | 4/10/2019 | Dirt Trucking    | DT-11    | 13676TC           | c            | 23.22   |
| 311      | 7769989         | 4/10/2019 | Dirt Trucking    | DT-11    | 13676TC           | c            | 21.83   |
| 312      | 7769990         | 4/10/2019 | Dirt Trucking    | DT-11    | 13676TC           | c            | 25.8    |
| 313      | 7769991         | 4/10/2019 | Dirt Trucking    | DT-11    | 13676TC           | c            | 18.47   |
| 314      | 7769992         | 4/15/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.35   |
| 315      | 7769993         | 4/15/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.05   |
| 316      | 7769994         | 4/16/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 20.61   |
| 317      | 7769995         | 4/16/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.43   |
| 318      | 7769996         | 4/16/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.62   |
| 319      | 7769997         | 4/29/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 23.65   |
| 320      | 7769998         | 4/30/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road    | 24.08   |
| 321      | 7769999         | 4/30/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road    | 25.03   |
| 322      | 7770000         | 4/30/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road    | 21.72   |
| 323      | 7770001         | 4/30/2019 | Dirt Trucking    | DT-11    | 13676TC           | 2 foot fence | 24.69   |
| 324      | 7770003         | 5/1/2019  | Dirt Trucking    | DT-11    | 13676TC           | West road    | 26.48   |
| 325      | 7770004         | 5/1/2019  | Magnum Trucking  | MT-44    | 84598MD           | West road    | 22.89   |
| 326      | 7770005         | 5/1/2019  | Dirt Trucking    | DT-11    | 13676TC           | West road    | 23.66   |
| 327      | 7770006         | 5/1/2019  | Magnum Trucking  | MT-44    | 84598MD           | West road    | 22.44   |
| 328      | 7770007         | 5/1/2019  | Dirt Trucking    | DT-11    | 13676TC           | West road    | 21.98   |
| 329      | 7770008         | 5/1/2019  | Magnum Trucking  | MT-44    | 84598MD           | West road    | 25.62   |
| 330      | 7770009         | 5/1/2019  | Dirt Trucking    | DT-11    | 13676TC           | West road    | 26.46   |
| 331      | 7770010         | 5/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | West road    | 24.28   |
| 332      | 7770011         | 5/2/2019  | Dirt Trucking    | DT-11    | 13676TC           | West road    | 22.86   |
| 333      | 7770012         | 5/2/2019  | Magnum Trucking  | MT-44    | 84598MD           | West road    | 24.26   |



| Load No. | WM Manifest No. | Date     | Trucking Company | Truck ID | License Plate No. | Source Area   | Tonnage |
|----------|-----------------|----------|------------------|----------|-------------------|---------------|---------|
| 334      | 7770013         | 5/2/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 25.4    |
| 335      | 7770014         | 5/2/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 24.93   |
| 336      | 7770015         | 5/2/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 24.28   |
| 337      | 7770016         | 5/3/2019 | NCH Transport    | 32       | 17241ML           | West road     | 24.96   |
| 338      | 7770017         | 5/3/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 22.4    |
| 339      | 7770018         | 5/3/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 24.21   |
| 340      | 7770019         | 5/3/2019 | NCH Transport    | 32       | 17241ML           | West road     | 24.07   |
| 341      | 7770020         | 5/3/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 24.46   |
| 342      | 7770021         | 5/3/2019 | NCH Transport    | 32       | 17241ML           | West road     | 24.48   |
| 343      | 7770022         | 5/3/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 24.89   |
| 344      | 7770023         | 5/3/2019 | NCH Transport    | 32       | 17241ML           | West road     | 24.37   |
| 345      | 7770024         | 5/7/2019 | Magnum Trucking  | MT-44    | 84598MD           | West road     | 24.44   |
| 346      | 7770025         | 5/7/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 25.86   |
| 347      | 7770026         | 5/7/2019 | Magnum Trucking  | MT-44    | 84598MD           | West road     | 25.4    |
| 348      | 7770027         | 5/7/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 25.4    |
| 349      | 7770028         | 5/7/2019 | Magnum Trucking  | MT-44    | 84598MD           | West road     | 24      |
| 350      | 7770029         | 5/7/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 21.45   |
| 351      | 7770030         | 5/7/2019 | Magnum Trucking  | MT-44    | 84598MD           | West road     | 21.07   |
| 352      | 7770031         | 5/7/2019 | Dirt Trucking    | DT-11    | 13676TC           | West road     | 28.26   |
| 353      | 7770032         | 5/8/2019 | Dirt Trucking    | DT-11    | 13676TC           | soil/ wattles | 1.35    |
| 354      | 7770033         | 5/8/2019 | Dirt Trucking    | DT-11    | 13676TC           | soil/ wattles | 1.38    |
| 355      | 7770034         | 5/8/2019 | Dirt Trucking    | DT-11    | 13676TC           | soil/ wattles | 1.12    |

|                      |                |
|----------------------|----------------|
| <b>Total Tonnage</b> | <b>8419.34</b> |
|----------------------|----------------|



| <b>Table 5D - Waste Management (Mill Seat LF) Profile # 119747NY - Demolished Concrete Slab Waste Disposal Summary (Slab Removal - October 2018)</b> |                        |             |                 |                          |                                   |                |
|--|------------------------|-------------|-----------------|--------------------------|-----------------------------------|----------------|
| <b>Load No.</b>  | <b>WM Manifest No.</b> | <b>Date</b> | <b>Truck ID</b> | <b>License Plate No.</b> | <b>NYSDEC Part 364 Permit No.</b> | <b>Tonnage</b> |
| 001  | 7279224                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 17.6           |
| 002  | 7279223                | 10/18/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 19.6           |
| 003  | 7279222                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 20.75          |
| 004  | 7279221                | 10/18/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 20.6           |
| 005  | 7279220                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 22.37          |
| 006  | 7279219                | 10/18/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 20.86          |
| 007  | 7279218                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 17.73          |
| 008  | 7279217                | 10/18/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 21.19          |
| 009  | 7279216                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 22.49          |
| 010  | 7279215                | 10/18/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 18.29          |
| 011  | 7279213                | 10/18/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 20.78          |
| 012  | 7279212                | 10/19/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 22.25          |
| 013  | 7279211                | 10/19/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 22.55          |
| 014  | 7279210                | 10/19/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 19.93          |
| 015  | 7279209                | 10/19/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 19.65          |
| 016  | 7279208                | 10/19/2018  | Silvarole D-109 | 69440 PC (NYS)           | 8A-190                            | 21.33          |
| 017  | 7279200                | 10/23/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 18.88          |
| 018  | 7279201                | 10/23/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 23.78          |
| 019  | 7279202                | 10/23/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 19.06          |
| 020  | 7279203                | 10/23/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 23.9           |
| 021  | 7279204                | 10/24/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 21.29          |
| 022  | 7279205                | 10/24/2018  | GreenTech G-16  | 72864 MJ (NYS)           | 8A-190                            | 15.78          |
|  |                        |             |                 |                          |                                   |                |
|  |                        |             |                 |                          |                                   |                |
|  |                        |             |                 |                          | <b>Total Tonnage</b>              | <b>450.66</b>  |

| <b>Table 5E - Waste Management (Mill Seat LF) Profile # 119747NY - Concrete Waste Disposal Summary (Remedial Action)</b> |                 |           |                  |          |                   |                     |         |
|--|-----------------|-----------|------------------|----------|-------------------|---------------------|---------|
| Load No.   | WM Manifest No. | Date      | Trucking Company | Truck ID | License Plate No. | Source Area         | Tonnage |
| 001  | 7861735         | 3/8/2019  | NCH Transport    | 30       | 17242ML           | Relief Pad          | 19.52   |
| 002  | 7861736         | 3/8/2019  | NCH Transport    | 30       | 17242ML           | Relief Pad          | 20.9    |
| 003  | 7861737         | 3/8/2019  | NCH Transport    | 30       | 17242ML           | Relief Pad          | 23.71   |
| 004  | 7861738         | 3/8/2019  | NCH Transport    | 30       | 17242ML           | Relief Pad          | 23.29   |
| 005  | 7861739         | 3/8/2019  | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25.17   |
| 006  | 7861740         | 3/11/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 20.63   |
| 007  | 7861741         | 3/11/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 19.87   |
| 008  | 7861742         | 3/11/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25.13   |
| 009  | 7861743         | 3/11/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 22.29   |
| 010  | 7861744         | 3/11/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25.96   |
| 011  | 7861745         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25      |
| 012  | 7861746         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.73   |
| 013  | 7861747         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.51   |
| 014  | 7861748         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.54   |
| 015  | 7861749         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.84   |
| 016  | 7861750         | 3/14/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 26.69   |
| 017  | 7861751         | 3/15/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 26.2    |
| 018  | 7861752         | 3/15/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 26.92   |
| 019  | 7861753         | 3/15/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 27.21   |
| 020  | 7861754         | 3/15/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25.78   |
| 021  | 7883657         | 3/15/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.7    |
| 022  | 7883658         | 3/18/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 25      |
| 023  | 7883659         | 3/18/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.21   |
| 024  | 7883660         | 3/18/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 26.26   |
| 025  | 7883661         | 3/18/2019 | NCH Transport    | 30       | 17242ML           | Gas Holder          | 24.68   |
| 026  | 7883662         | 3/20/2019 | Dirt Trucking    | DT-11    | 13646TC           | Gas Holder          | 24.72   |
| 027  | 7883663         | 4/5/2019  | Dirt Trucking    | DT-11    | 13646TC           | Remedial Excavation | 19.48   |
| 028  | 7883664         | 4/5/2019  | Dirt Trucking    | DT-11    | 13646TC           | Remedial Excavation | 15.26   |
| 029  | 7883665         | 4/12/2019 | Dirt Trucking    | DT-11    | 13646TC           | Remedial Excavation | 23.33   |
| 030  | 7883666         | 4/24/2019 | Dirt Trucking    | DT-11    | 13646TC           | Remedial Excavation | 14.72   |

|                      |               |
|----------------------|---------------|
| <b>Total Tonnage</b> | <b>705.25</b> |
|----------------------|---------------|



| <b>Table 5F - ARC Profile # X-15000 - Construction Water Waste Disposal Summary</b> |                        |             |                         |                 |                      |                |
|---|------------------------|-------------|-------------------------|-----------------|----------------------|----------------|
| <b>Load No.</b>   | <b>WM Manifest No.</b> | <b>Date</b> | <b>Trucking Company</b> | <b>Truck ID</b> | <b>Source Area</b>   | <b>Tonnage</b> |
| 001   | 30396                  | 4/17/2019   | ESG                     | Vacuum Tanker   | Frac Tank            | 6,074          |
| 002   | 30397                  | 4/17/2019   | ESG                     | Vacuum Tanker   | Frac Tank            | 6,106          |
| 003   | 30398                  | 4/19/2019   | ESG                     | Vacuum Tanker   | Exc. Vault           | 5,326          |
| 004   | 30399                  | 5/1/2019    | ESG                     | Vacuum Tanker   | Frac Tank            | 5,412          |
| 005   | 30562                  | 5/2/2019    | ESG                     | Vacuum Tanker   | Frac Tank            | 5,356          |
|   |                        |             |                         |                 |                      |                |
|   |                        |             |                         |                 | <b>Total Tonnage</b> | <b>28,274</b>  |



| <b>Table 5G - Waste Management (Mill Seat LF) Profile # 120513NY - Treated Wood (Rail Ties) Waste Disposal Summary</b> |                        |             |                         |                    |                |
|--|------------------------|-------------|-------------------------|--------------------|----------------|
| <b>Load No.</b>  | <b>WM Manifest No.</b> | <b>Date</b> | <b>Trucking Company</b> | <b>Source Area</b> | <b>Tonnage</b> |
| 001  | 7770077                | 4/16/2019   | Jaus                    | Former Site Tracks | 1.2            |
| 002  | 7770002                | 5/1/2019    | Jaus                    | Former Site Tracks | 2.12           |
| <b>Total Tonnage</b>   |                        |             |                         |                    | <b>3.32</b>    |

**Table 9 Imported Fill - Geotechnical Results**

| Parameter                                       | Units | IF-01-102518<br>(18-318)<br>10/25/2018<br>Gray Crusher Run | IF-02-012319#2<br>(19-013)<br>1/23/2019<br>No. 2 Crusher Run | IF-03-012319#4<br>(19-014)<br>1/23/2019<br>No. 4 Stone* | IF-04-020619#3STONE<br>(19-016)<br>2/6/2019<br>No. 3 Stone* |
|---|-------|--|--|---|---|
| <b>Gradation/Grain Size Profile (ASTM D422)</b> |       |  |  |   |   |
| 100% passing 3 inch sieve                       | %     | 100  | 100  | 88.5  | 100   |
| 10-30% passing No. 200 sieve                    | %     | 0.7  | 3.8  | 0   | 0.1   |
| <b>Moisture/Density (ASTM D698)</b>             |       |  |  |   |   |
| Maximum dry density                             | pcf   | 130.1  | 143.3  | NA  | NA  |
| Optimum moisture                                | %     | 4.4  | 4.8  | NA  | NA  |

**Notes:**

\* No. 3 and No. 4 Stones were not used for fill. These were used for stabilized construction entrance.

NA - Not Applicable

| Table 10 - Imported Fill - Sample Analytical Results - Chemical Parameters |       |   |   |                         |                                |
|--|-------|---|---|-------------------------|--------------------------------|
| Target Analyte   | Units | DER-10 (Imported Fill) Unrestricted Use SCOs*** | DER-10 (Imported Fill) Commercial Use SCOs*** | IF-01-102518 10/25/2018 | Trip Blank 10/25/2018 (Liquid) |
| <b>Metals</b>  |       |   |   |                         |                                |
| Aluminum   | mg/Kg | NA  | NA  | <b>1,300</b>            | NT                             |
| Antimony   | mg/Kg | NA  | NA  | ND<2.91                 | NT                             |
| Arsenic  | mg/Kg | 13  | 16  | <b>2.25</b>             | NT                             |
| Barium   | mg/Kg | 350   | 400   | <b>5.01</b>             | NT                             |
| Beryllium  | mg/Kg | 7.2   | 47  | ND<0.242                | NT                             |
| Cadmium  | mg/Kg | 2.5   | 7.5   | ND<0.242                | NT                             |
| Calcium  | mg/Kg | NA  | NA  | <b>157,000</b>          | NT                             |
| Chromium (Hexavalent)  | mg/Kg | 1   | 19  | <b>3.28</b>             | NT                             |
| Chromium (Trivalent)   | mg/Kg | 30  | 1500  | <b>3.28</b>             | NT                             |
| Cobalt   | mg/Kg | NA  | NA  | ND<0.242                | NT                             |
| Copper   | mg/Kg | 50  | 270   | <b>3.33</b>             | NT                             |
| Cyanide (Total)  | mg/Kg | 27  | 27  | ND<0.489                | NT                             |
| Iron   | mg/Kg | NA  | NA  | <b>2,720</b>            | NT                             |
| Lead   | mg/Kg | 63  | 450   | <b>3.45</b>             | NT                             |
| Magnesium  | mg/Kg | NA  | NA  | <b>4,720</b>            | NT                             |
| Manganese  | mg/Kg | 1,600   | 2,000   | <b>80.2</b>             | NT                             |
| Mercury (Total)  | mg/Kg | 0.18  | 0.73  | ND<0.00828              | NT                             |
| Nickel   | mg/Kg | 30  | 130   | <b>4.65</b>             | NT                             |
| Potassium  | mg/Kg | NA  | NA  | <b>873</b>              | NT                             |
| Selenium   | mg/Kg | 3.9   | 4   | ND<4.85                 | NT                             |
| Silver   | mg/Kg | 2   | 8.3   | ND<0.485                | NT                             |
| Sodium   | mg/Kg | NA  | NA  | <b>128</b>              | NT                             |
| Thallium   | mg/Kg | NA  | NA  | <b>6.91</b>             | NT                             |
| Vanadium   | mg/Kg | NA  | NA  | <b>4.64</b>             | NT                             |
| Zinc   | mg/Kg | 109   | 2,480   | <b>10.0</b>             | NT                             |
| <b>VOCs</b>  |       |   |   |                         |                                |
| 1,1,1-Trichloroethane  | µg/Kg | 680   | 680   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,1,2,2-Tetrachloroethane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,1,2-Trichloroethane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,1-Dichloroethane   | µg/Kg | 270   | 270   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,1-Dichloroethylene   | µg/Kg | 330   | 330   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,2,3-Trichlorobenzene   | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| 1,2,4-Trichlorobenzene   | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| 1,2-Dibromo-3-Chloropropane  | µg/Kg | NA  | NA  | ND<17.8 UJ              | ND<10.0 (µg/L)                 |
| 1,2-Dibromoethane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,2-Dichlorobenzene  | µg/Kg | 1100  | 1100  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,2-Dichloroethane   | µg/Kg | 20  | 20  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,2-Dichloropropane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,3-Dichlorobenzene  | µg/Kg | 2400  | 2400  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,4-Dichlorobenzene  | µg/Kg | 1800  | 1800  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| 1,4-Dioxane  | µg/Kg | 100   | 100   | ND<35.7 UJ              | ND<20.0 (µg/L)                 |
| 2-Butanone (methyl ethyl ketone)   | µg/Kg | 120   | 120   | ND<17.8 UJ              | ND<10.0 (µg/L)                 |
| 2-Hexanone   | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| 4-Methyl-2-Pentanone   | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| Acetone  | µg/Kg | 50  | 50  | ND<17.8 UJ              | ND<10.0 (µg/L)                 |
| Benzene  | µg/Kg | 60  | 60  | ND<3.57 UJ              | ND<1.00 (µg/L)                 |
| Bromochloromethane   | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| Bromodichloromethane   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Bromoform  | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| Bromomethane   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Butylbenzene   | µg/Kg | 12  | 12  | NT                      | NT                             |
| Carbon Disulfide   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Carbon Tetrachloride   | µg/Kg | 760   | 760   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Chlorinated Fluorocarbon (freon 113)                                       | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Chlorobenzene  | µg/Kg | 1100  | 1100  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Chloroethane   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Chloroform   | µg/Kg | 370   | 370   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Chloromethane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| cis-1,2-Dichloroethylene   | µg/Kg | 250   | 250   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| cis-1,3-Dichloropropylene  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Cyclohexane  | µg/Kg | NA  | NA  | ND<17.8 UJ              | ND<10.0 (µg/L)                 |
| Dibromochloromethane   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Dichlorodifluoromethane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Ethylbenzene   | µg/Kg | 1000  | 1000  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Hexachlorobenzene  | µg/Kg | 330   | 3200  | NT                      | NT                             |
| Isopropylbenzene   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| m&p-Xylene   | µg/Kg | 260   | 1600  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Methyl Acetate   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Methyl tert-Butyl ether  | µg/Kg | 930   | 930   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Methylcyclohexane  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Methylene chloride   | µg/Kg | 50  | 50  | ND<8.91 UJ              | ND<5.00 (µg/L)                 |
| o-Xylene   | µg/Kg | 260   | 1600  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Propylbenzene-n  | µg/Kg | 3900  | 3900  | NT                      | NT                             |
| Sec-Butylbenzene   | µg/Kg | 11000   | 11000   | NT                      | NT                             |
| Styrene  | µg/Kg | NA  | NA  | ND<8.91 UJ              | ND<2.00 (µg/L)                 |
| Tert-Butylbenzene  | µg/Kg | 5900  | 5900  | NT                      | NT                             |
| Tetrachloroethene  | µg/Kg | 1300  | 1300  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Toluene  | µg/Kg | 700   | 700   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| trans-1,2-Dichloroethylene   | µg/Kg | 190   | 190   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| trans-1,3-Dichloropropylene  | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Trichloroethylene  | µg/Kg | 470   | 470   | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Trichlorofluoromethane   | µg/Kg | NA  | NA  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |
| Trimethylbenzene-1,2,4   | µg/Kg | 3600  | 3600  | NT                      | NT                             |
| Trimethylbenzene-1,3,5   | µg/Kg | 8400  | 8400  | NT                      | NT                             |
| Vinyl Chloride   | µg/Kg | 20  | 20  | ND<3.57 UJ              | ND<2.00 (µg/L)                 |

**Table 10 - Imported Fill - Sample Analytical Results - Chemical Parameters**

| Target Analyte                  | Units | DER-10<br>(Imported Fill)<br>Unrestricted Use<br>SCOs*** | DER-10<br>(Imported Fill)<br>Commercial Use<br>SCOs*** | IF-01-102518<br>10/25/2018 | Trip Blank<br>10/25/2018<br>(Liquid) |
|---------------------------------|-------|--|--|----------------------------|--------------------------------------|
| <b>SVOCs</b>                    |       |  |  |                            |                                      |
| Acenaphthene                    | µg/Kg | 20000  | 98000  | ND<282                     | NT                                   |
| Acenaphthylene                  | µg/Kg | 100000   | 107000   | ND<282                     | NT                                   |
| Acetophenone                    | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Anthracene                      | µg/Kg | 100000   | 500000   | ND<282                     | NT                                   |
| Atrazine                        | µg/Kg | NA   | NA   | ND<282 UJ                  | NT                                   |
| 1,1'-Biphenyl                   | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-Bromophenyl Phenyl Ether      | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| di-n-Butyl Phthalate            | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Benzaldehyde                    | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Benzo[a]anthracene              | µg/Kg | 1000   | 1000   | ND<282                     | NT                                   |
| Benzo[a]pyrene                  | µg/Kg | 1000   | 1000   | ND<282                     | NT                                   |
| Benzo[b]fluoranthene            | µg/Kg | 1000   | 1700   | ND<282                     | NT                                   |
| Benzo[g,h,i]perylene            | µg/Kg | 100000   | 500000   | ND<282                     | NT                                   |
| Benzo[k]fluoranthene            | µg/Kg | 800  | 1700   | ND<282                     | NT                                   |
| Benzyl Butyl Phthalate          | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2-Chloronaphthalene             | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2-Chlorophenol                  | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-chloro-3-Methylphenol         | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-Chloroaniline                 | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-Chlorophenyl Phenyl Ether     | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Caprolactam                     | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Carbazole                       | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| bis(2-Chloroethoxy)Methane      | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| bis(2-chloroethyl)ether         | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2,2'-oxybis(1-Chloropropane)    | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 1,2-Benzphenanthrene (chrysene) | µg/Kg | 1000   | 1000   | ND<282                     | NT                                   |
| 2,4-Dichlorophenol              | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2,4-Dimethylphenol              | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2,4-Dinitrophenol               | µg/Kg | NA   | NA   | ND<1130                    | NT                                   |
| 2,4-Dinitrotoluene              | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2,6-Dinitrotoluene              | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 3,3'-Dichlorobenzidine          | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4,6-Dinitro-2-Methylphenol      | µg/Kg | NA   | NA   | ND<564                     | NT                                   |
| Dibenz[a,h]anthracene           | µg/Kg | 330  | 560  | ND<282                     | NT                                   |
| Dibenzofuran                    | µg/Kg | 7000   | 210000   | ND<282                     | NT                                   |
| Diethyl Phthalate               | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Dimethyl Phthalate              | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| bis(2-Ethylhexyl)Phthalate      | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Fluoranthene                    | µg/Kg | 100000   | 500000   | ND<282                     | NT                                   |
| Fluorene                        | µg/Kg | 30000  | 386000   | ND<282                     | NT                                   |
| Hexachlorobenzene               | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Hexachlorobutadiene             | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Hexachlorocyclopentadiene       | µg/Kg | NA   | NA   | ND<1130                    | NT                                   |
| Hexachloroethane                | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Indeno[1,2,3-cd]pyrene          | µg/Kg | 500  | 5600   | ND<282                     | NT                                   |
| Isophorone                      | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2-Methylnaphthalene             | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2-Methylphenol (o-cresol)       | µg/Kg | 330  | 330  | ND<282                     | NT                                   |
| 3&4-Methylphenol (m&p-cresol)   | µg/Kg | 330  | 330  | ND<282                     | NT                                   |
| 2-Nitroaniline                  | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2-Nitrophenol                   | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 3-Nitroaniline                  | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-Nitroaniline                  | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 4-Nitrophenol                   | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| n-Nitroso-di-n-Propylamine      | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| n-Nitrosodiphenylamine          | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Naphthalene                     | µg/Kg | 12000  | 12000  | ND<282                     | NT                                   |
| Nitrobenzene*                   | µg/Kg | NA   | 170  | ND<282                     | NT                                   |
| di-n-Octyl Phthalate            | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| Pentachlorophenol               | µg/Kg | 800  | 800  | ND<564                     | NT                                   |
| Phenanthrene                    | µg/Kg | 100000   | 500000   | ND<282                     | NT                                   |
| Phenol                          | µg/Kg | 330  | 330  | ND<282                     | NT                                   |
| Pyrene                          | µg/Kg | 100000   | 500000   | ND<282                     | NT                                   |
| 2,4,5-Trichlorophenol           | µg/Kg | NA   | NA   | ND<282                     | NT                                   |
| 2,4,6-Trichlorophenol           | µg/Kg | NA   | NA   | ND<282                     | NT                                   |

**Table 10 - Imported Fill - Sample Analytical Results - Chemical Parameters**

| Target Analyte               | Units | DER-10 (Imported Fill) Unrestricted Use SCOs*** | DER-10 (Imported Fill) Commercial Use SCOs*** | IF-01-102518 10/25/2018 | Trip Blank 10/25/2018 (Liquid) |
|------------------------------|-------|---|---|-------------------------|--------------------------------|
| <b>Pesticides/Herbicides</b> |       |   |   |                         |                                |
| 2,4,5-TP Acid (Silvex)       | mg/Kg | 3.8   | 3.8   | ND<0.00293              | NT                             |
| Delta-BHC                    | mg/Kg | 0.04  | 0.25  | ND<0.00293              | NT                             |
| Lindane                      | mg/Kg | 0.1   | 0.1   | ND<0.00293              | NT                             |
| Alpha-BHC                    | mg/Kg | 0.02  | 0.02  | ND<0.00293              | NT                             |
| Beta-BHC                     | mg/Kg | 0.036   | 0.09  | ND<0.00293              | NT                             |
| Heptachlor                   | mg/Kg | 0.042   | 0.38  | ND<0.00293              | NT                             |
| Aldrin                       | mg/Kg | 0.005   | 0.19  | ND<0.00293              | NT                             |
| Heptachlor epoxide           | mg/Kg | 0.042   | 0.38  | ND<0.00293              | NT                             |
| Endrin                       | mg/Kg | 0.014   | 0.06  | ND<0.00293              | NT                             |
| Endrin Ketone                | mg/Kg | NA  | NA  | ND<0.00293              | NT                             |
| Dieldrin                     | mg/Kg | 0.005   | 0.1   | ND<0.00293              | NT                             |
| 4,4'-DDE                     | mg/Kg | 0.0033  | 17  | ND<0.00293              | NT                             |
| 4,4'-DDD                     | mg/Kg | 0.0033  | 14  | ND<0.00293              | NT                             |
| 4,4'-DDT                     | mg/Kg | 0.0033  | 47  | ND<0.00293              | NT                             |
| Endosulfan I                 | mg/Kg | 2.4   | 102   | ND<0.00293              | NT                             |
| Endosulfan II                | mg/Kg | 2.4   | 102   | ND<0.00293              | NT                             |
| Endosulfan sulfate           | mg/Kg | 2.4   | 200   | ND<0.00293              | NT                             |
| Methoxychlor                 | mg/Kg | NA  | NA  | ND<0.00293              | NT                             |
| Toxaphene                    | mg/Kg | NA  | NA  | ND<0.00293              | NT                             |
| Chlordane (Gamma)            | mg/Kg | NA  | NA  | ND<0.00293              | NT                             |
| Chlordane (Alpha)            | mg/Kg | 0.094   | 2.9   | ND<0.00293              | NT                             |
| <b>PCBs</b>                  |       |   |   |                         |                                |
| Aroclor-1016**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1221**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1232**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1242**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1248**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1254**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1260**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1262**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| Aroclor-1268**               | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |
| PCBs (Total)                 | mg/Kg | 0.1   | 1   | ND<0.0293               | NT                             |

**Notes:**

1. QLs indicates quantitation limits.
2. MDLs indicate method detection limits.
3. mg/Kg indicates milligram per kilogram.
4. µg/Kg indicates microgram per kilogram.
5. µg/L indicates microgram per liter.
6. PCBs indicates polychlorinated biphenyls.
7. NA indicates not applicable or not listed.
8. NT indicates not tested.
9. VOCs indicates volatile organic compounds (via United States Environmental Protection Agency [USEPA] Method 8260).
10. SVOCs indicates semi-volatile organic compounds via USEPA Method 8270.
11. \* Indicates the SCO used was based on the Supplemental SCO referenced in the NYSDEC CP-51 Soil Cleanup Guidance, Table 1, Date Issued October 21, 2010.
12. \*\* SCO values for polychlorinated biphenyls (PCBS) applies to the sum of the compounds.
13. Unrestricted SCOs indicates Unrestricted Use Soil Cleanup Objectives (SCOs) referenced in the NYSDEC General Remedial Program Requirements, presented in the New York State Codes, Rules and Regulations; Title 6, Chapter IV, Subpart 375 (Part 375), Table 375.6.8(a), December 14, 2006.
14. DER-10 Commercial Use SCOs referenced in the NYSDEC Der-10 Technical Guidance for Site Investigations and Remediation, Appendix 5 - Allowable Constituent Levels of Imported Fill or Soil Subdivision 5.4(e), May 3, 2010.
15. \*\*\*The values in DER-10 Appendix 5 are derived from soil cleanup objective (SCO) tables in 6 NYCRR Part 375. Table 375-6.8(a) is the source for unrestricted use and Table 375-6.8(b) is the source for restricted use.



**Table 8 - Summary of Imported Backfill Quantities**

| <b>Total Loads:</b> |             | <b>Total Tons:</b> |                  |                       |  |
|---------------------|-------------|--------------------|------------------|-----------------------|--|
| <b>373</b>          |             | <b>10501.75</b>    |                  |                       |  |
| Date                | Total Loads | Ave Qty/Load (tn)  | Daily Total (tn) | Cumulative Total (tn) |  |
| 3/1/2019            | 21          | 22.64              | 475.44           | 475.44                |  |
| 3/4/2019            | 10          | 22.54              | 225.4            | 700.84                |  |
| 3/8/2019            | 21          | 22.48              | 472.05           | 1172.89               |  |
| 3/8/2019            | 3           | 22.53              | 67.59            | 1240.48               |  |
| 3/11/2019           | 8           | 22.96              | 183.69           | 1424.17               |  |
| 3/14/2019           | 9           | 22.30              | 200.72           | 1624.89               |  |
| 3/15/2019           | 21          | 22.12              | 464.46           | 2089.35               |  |
| 3/15/2019           | 12          | 22.37              | 268.45           | 2357.8                |  |
| 3/18/2019           | 10          | 22.81              | 228.07           | 2585.87               |  |
| 3/19/2019           | 10          | 22.11              | 221.1            | 2806.97               |  |
| 3/20/2019           | 20          | 22.91              | 458.17           | 3265.14               |  |
| 3/20/2019           | 17          | 19.88              | 338.01           | 3603.15               |  |
| 3/21/2019           | 18          | 22.02              | 396.39           | 3999.54               |  |
| 3/25/2019           | 2           | 22.11              | 44.22            | 4043.76               |  |
| 3/26/2019           | 15          | 22.48              | 337.13           | 4380.89               |  |
| 3/27/2019           | 8           | 21.10              | 168.79           | 4549.68               |  |
| 3/28/2019           | 11          | 22.07              | 242.74           | 4792.42               |  |
| 3/21/2019           | 9           | 22.45              | 202.05           | 4994.47               |  |
| 3/29/2019           | 15          | 22.30              | 334.55           | 5329.02               |  |
| 4/1/2019            | 9           | 22.51              | 202.56           | 5531.58               |  |
| 4/2/2019            | 10          | 22.46              | 224.58           | 5756.16               |  |
| 4/3/2019            | 20          | 22.13              | 442.53           | 6198.69               |  |
| 4/4/2019            | 20          | 22.11              | 442.13           | 6640.82               |  |
| 4/4/2019            | 3           | 22.26              | 66.79            | 6707.61               |  |
| 4/5/2019            | 3           | 21.87              | 65.61            | 6773.22               |  |
| 4/8/2019            | 9           | 22.23              | 200.1            | 6973.32               |  |
| 4/8/2019            | 9           | 22.23              | 200.1            | 7173.42               |  |
| 4/11/2019           | 10          | 21.94              | 219.41           | 7392.83               |  |
| 4/12/2019           | 4           | 22.04              | 88.15            | 7480.98               |  |
| 4/15/2019           | 3           | 21.81              | 65.42            | 7546.4                |  |
| 4/16/2019           | 2           | 21.97              | 43.93            | 7590.33               |  |
| 4/17/2019           | 9           | 21.81              | 196.25           | 7786.58               |  |
| 4/18/2019           | 10          | 21.83              | 218.27           | 8004.85               |  |
| 4/19/2019           | 8           | 22.01              | 176.05           | 8180.9                |  |
| 4/23/2019           | 8           | 21.98              | 175.84           | 8356.74               |  |
| 4/24/2019           | 19          | 22.09              | 419.78           | 8776.52               |  |
| 4/25/2019           | 18          | 22.22              | 399.95           | 9176.47               |  |
| 4/26/2019           | 14          | 22.16              | 310.28           | 9486.75               |  |
| 4/29/2019*          | Unknown     | Unknown            | 192              | 9678.75               |  |
| 4/30/2019*          | Unknown     | Unknown            | 288              | 9966.75               |  |
| 5/1/2019*           | 1           | 22                 | 22               | 9988.75               |  |
| 5/2/2019*           | Unknown     | Unknown            | 154              | 10142.75              |  |
| 5/3/2019*           | Unknown     | Unknown            | 359              | 10501.75              |  |

\* Estimated quantities based on Daily Field Reporting

**Table 9**  
**Summary of Chemical Analyses Performed**  
**Former Manufactured Gas Plant**  
**Pavilion, New York**

|                                | Location                 | Sample ID   | Depth (ft bgs) | Chemical Analyses Performed |       |         |      |      |        |     |            |            |         |      |  |  |   |
|--------------------------------|--------------------------|-------------|----------------|-----------------------------|-------|---------|------|------|--------|-----|------------|------------|---------|------|--|--|---|
|                                |                          |             |                | VOCs                        | SVOCS | Cyanide | PAHs | BTEX | Metals | TPH | Pesticides | Herbicides | Nitrate | PCBs |  |  |   |
| 2002 -PSA Test Pit Samples     | 2001 Soil Samples        |             |                |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-1                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-2                     | TP-2        | 1.5            |                             |       |         | ●    | ●    |        |     |            |            |         |      |  |  |   |
|                                | TP-2A                    | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-2B                    | TP-2B       | 1.5            |                             |       |         | ●    | ●    |        |     |            |            |         |      |  |  |   |
|                                | TP-3                     | TP-3        | 1.5-2.0        |                             |       | ●       | ●    | ●    | ●      |     |            |            |         |      |  |  |   |
|                                | TP-4                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-5                     | TP-5        | 1.5-2.0        |                             |       | ●       | ●    | ●    | ●      |     |            |            |         |      |  |  |   |
|                                | TP-6                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-7                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-8                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-9                     | TP-9        | 2              |                             |       | ●       | ●    | ●    | ●      | ●   | ●          |            |         |      |  |  |   |
|                                | TP-10                    | TP-10       | 1.5-2.0        |                             |       | ●       | ●    | ●    | ●      | ●   | ●          |            |         |      |  |  |   |
|                                | TP-11                    | TP-11       | 1.5-2.0        | ●                           | ●     | ●       |      |      |        | ●   | ●          |            |         |      |  |  |   |
|                                | TP-12                    | TP-12       | 1.5-2.0        | ●                           | ●     |         |      |      |        |     |            |            |         |      |  |  |   |
| TP-13                          | not sampled              | n/a         |                |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
| TP-14                          | TP-14                    | 1.5         |                |                             | ●     | ●       | ●    | ●    | ●      |     |            |            |         |      |  |  |   |
| 2002 -PSA Soil Borings         | 2001 Soil Samples        |             |                |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-1                      | B-1         |                | ●                           | ●     | ●       |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-2                      | B-2         |                | ●                           | ●     | ●       |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-3                      | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-4                      | B-4         |                |                             |       |         |      |      |        |     | ●          |            |         |      |  |  |   |
|                                | B-5                      | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-6                      | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-7                      | B-7         |                |                             |       |         |      |      |        |     | ●          |            |         |      |  |  |   |
|                                | B-8                      | B-8         |                |                             |       |         |      |      |        |     | ●          |            |         |      |  |  |   |
|                                | B-9                      | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-10                     | B-10        |                |                             | ●     |         |      |      |        |     | ●          |            |         |      |  |  |   |
|                                | B-11                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | B-12                     | not sampled | n/a            |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
| 2002 - PSA Groundwater Samples | 2001 Groundwater Samples |             |                |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | MW-1                     | MW-1        | n/a            | ●                           | ●     | ●       |      |      |        | ●   |            | ●          | ●       | ●    |  |  |   |
|                                | MW-2                     | MW-2        | n/a            | ●                           | ●     | ●       |      |      |        | ●   |            |            |         |      |  |  |   |
|                                | MW-3                     | MW-3        | n/a            | ●                           | ●     | ●       |      |      |        | ●   |            |            |         |      |  |  |   |
|                                | MW-4                     | MW-4        | n/a            | ●                           | ●     | ●       |      |      |        | ●   |            |            |         |      |  |  |   |
| 2015 RI Test Pit Samples       | 2015 Soil Samples        |             |                |                             |       |         |      |      |        |     |            |            |         |      |  |  |   |
|                                | TP-15 (MS/MSD)           | TP-15 (3')  | 3              | ●                           | ●     | ●       |      |      |        | ●   |            | ●          | ●       | ●    |  |  | ● |
|                                | TP-16                    | TP-16 (4')  | 4              | ●                           | ●     | ●       |      |      |        | ●   |            | ●          | ●       | ●    |  |  | ● |
|                                | TP-17 (dup)              | TP-17 (3')  | 3              | ●                           | ●     | ●       |      |      |        | ●   |            | ●          | ●       | ●    |  |  | ● |
|                                | TP-17                    | TP-17(6')   | 6              | ●                           | ●     | ●       |      |      |        | ●   |            | ●          | ●       | ●    |  |  | ● |

Note:

- "●" Indicates that the specified chemical analysis was performed on sample, does not correlate to detections or exceedances.
- Yellow shading indicates one or more of the results exceed an Unrestricted Use SCOs.
- Red Circle indicates one or more of the results exceed Commercial Use SCOs.

**Table 9**  
**Summary of Chemical Analyses Performed**  
**Former Manufactured Gas Plant**  
**Pavilion, New York**

|                                       | Location                            | Sample ID      | Depth (ft bgs) | Chemical Analyses Performed |       |         |      |      |        |     |            |            |         |      |
|---------------------------------------|-------------------------------------|----------------|----------------|-----------------------------|-------|---------|------|------|--------|-----|------------|------------|---------|------|
|                                       |                                     |                |                | VOCs                        | SVOCS | Cyanide | PAHs | BTEX | Metals | TPH | Pesticides | Herbicides | Nitrate | PCBs |
| 2015 RI Soil Borings                  | 2015 Soil Samples                   |                |                |                             |       |         |      |      |        |     |            |            |         |      |
|                                       | MW-05 (dup)                         | MW-05 (8-10')  | 8-10           | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-05                               | MW-05 (16-18') | 16-18          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-01                               | SB-01 (14-16') | 14-16          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-01                               | SB-01 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-02                               | SB-02 (2-4')   | 2-4            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | SB-02                               | SB-02 (14-16') | 14-16          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-03                               | SB-03 (16-18') | 16-18          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-03                               | SB-03 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-04                               | SB-04 (2-4')   | 2-4            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | SB-04                               | SB-04 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-05                               | SB-05 (8-10')  | 8-10           | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | SB-05                               | SB-05 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-06                               | SB-06 (14-16') | 14-16          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-06                               | SB-06 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-07 (MS/MSD)                      | SB-07 (4-6')   | 4-6            | ●                           | ●     | ●       |      |      |        |     | ●          | ●          |         | ●    |
|                                       | SB-07                               | SB-07 (22-24') | 22-24          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-08                               | SB-08 (10-12') | 10-12          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-08                               | SB-08 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-09                               | SB-09 (12-14') | 12-14          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-09                               | SB-09 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
|                                       | SB-10                               | SB-10 (2-4')   | 2-4            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | SB-10                               | SB-10 (18-20') | 18-20          | ●                           | ●     | ●       |      |      | ●      |     |            |            |         |      |
| SB-11                                 | SB-11 (4-6')                        | 4-6            | ●              | ●                           | ●     |         |      |      |        | ●   | ●          |            | ●       |      |
| SB-11                                 | SB-11 (18-20')                      | 18-20          | ●              | ●                           | ●     |         |      | ●    |        |     |            |            |         |      |
| SB-12                                 | SB-12 (2-4')                        | 2-4            | ●              | ●                           | ●     |         |      | ●    |        | ●   | ●          |            | ●       |      |
| SB-12                                 | SB-12 (18-20')                      | 18-20          | ●              | ●                           | ●     |         |      | ●    |        |     |            |            |         |      |
| SB-13                                 | SB-13 (10-12')                      | 10-12          | ●              | ●                           | ●     |         |      | ●    |        |     |            |            |         |      |
| SB-13                                 | SB-13 (18-20')                      | 18-20          | ●              | ●                           | ●     |         |      | ●    |        |     |            |            |         |      |
| 2015 RI Groundwater Samples - Round 1 | 2015 Groundwater Samples - November |                |                |                             |       |         |      |      |        |     |            |            |         |      |
|                                       | MW-01 (MS/MSD)                      | MW-01          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-02                               | MW-02          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-03                               | MW-03          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-04                               | MW-04          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
| MW-05 (dup)                           | MW-05                               | n/a            | ●              | ●                           | ●     |         |      | ●    |        | ●   | ●          |            | ●       |      |
| 2016 RI Groundwater Samples - Round 2 | 2016 Groundwater Samples - January  |                |                |                             |       |         |      |      |        |     |            |            |         |      |
|                                       | MW-01 (MS/MSD)                      | MW-01          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-02                               | MW-02          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-03                               | MW-03          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
|                                       | MW-04                               | MW-04          | n/a            | ●                           | ●     | ●       |      |      | ●      |     | ●          | ●          |         | ●    |
| MW-05 (dup)                           | MW-05                               | n/a            | ●              | ●                           | ●     |         |      | ●    |        | ●   | ●          |            | ●       |      |

Note:

"●" Indicates that the specified chemical analysis was performed on sample, does not correlate to detections or exceedances.

Yellow shading indicates one or more of the results exceed an Unrestricted Use SCOs.

**TABLE 10**  
**2015 - Summary of Remedial Investigation Groundwater Analytical Data**  
**Round 1**

| Iberdrola<br>Pavillion Site<br>2015 Validated Groundwater Data - Round 1<br>Detected Compound Summary |                            | NYSDEC<br>Class GA<br>Groundwater<br>Standards/Guidance | Location ID:     | MW-01            | MW-02            | MW-03            | MW-04            | MW-05            | Dup of<br>MW-05-20151124 |
|---|----------------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------|
| CAS NO.   | COMPOUND                   |   | Sample ID:       | MW-01-20151123   | MW-02-20151123   | MW-03-20151124   | MW-04-20151123   | MW-05-20151124   | MW-05                    |
|   |                            | Lab Sample Id:  | G4587-01         | G4587-04         | G4587-05         | G4587-06         | G4587-07         | G4587-08         |                          |
|   |                            | Source:   | CTECH            | CTECH            | CTECH            | CTECH            | CTECH            | CTECH            |                          |
|   |                            | SDG:  | G4587            | G4587            | G4587            | G4587            | G4587            | G4587            |                          |
|   |                            | Matrix:   | WATER            | WATER            | WATER            | WATER            | WATER            | WATER            |                          |
|   |                            | Sampled:  | 11/23/2015 10:40 | 11/23/2015 15:30 | 11/24/2015 10:05 | 11/23/2015 14:00 | 11/24/2015 12:15 | 11/24/2015 14:15 |                          |
|   |                            | Validated:  | 2/23/2016        | 2/23/2016        | 2/23/2016        | 2/23/2016        | 2/23/2016        | 2/23/2016        |                          |
|   |                            | UNITS:  |                  |                  |                  |                  |                  |                  |                          |
|   | VOLATILES                  |   |                  |                  |                  |                  |                  |                  |                          |
|   | NONE DETECTED              |   |                  |                  |                  |                  |                  |                  |                          |
|   | SEMIVOLATILES              |   |                  |                  |                  |                  |                  |                  |                          |
|   | NONE DETECTED              |   |                  |                  |                  |                  |                  |                  |                          |
|   | PESTICIDES/HERBICIDES/PCBs |   |                  |                  |                  |                  |                  |                  |                          |
|   | NONE DETECTED              |   |                  |                  |                  |                  |                  |                  |                          |
|   | INORGANICS                 |   |                  |                  |                  |                  |                  |                  |                          |
| 7429-90-5   | ALUMINUM                   | -   | ug/l             | 58.9             | 77.2             | 51.6             | 55.6             | 74.6             | 86                       |
| 7440-38-2   | ARSENIC                    | 25  | ug/l             | ND               | 7.53 J           | ND               | 5.98 J           | 3.14 J           | 3.9 J                    |
| 7440-39-3   | BARIUM                     | 1000  | ug/l             | 79.4 J+          | 445              | 87               | 385              | 219              | 211                      |
| 7440-70-2   | CALCIUM                    | -   | ug/l             | 109700 J         | 188400           | 71100            | 74200            | 172500           | 166400                   |
| 7440-47-3   | CHROMIUM, TOTAL            | 50  | ug/l             | ND               | ND               | ND               | ND               | 1.3 J            | ND                       |
| 7439-89-6   | IRON                       | 300   | ug/l             | 347              | 11900            | 44.5 J           | 5690             | 995              | 932                      |
| 7439-95-4   | MAGNESIUM                  | 35000 (G)   | ug/l             | 38300            | 14700            | 7820             | 8660             | 21400            | 20700                    |
| 7439-96-5   | MANGANESE                  | 300   | ug/l             | 96.5 J           | 982              | 207              | 861              | 678              | 639                      |
| 7439-97-6   | MERCURY                    | 0.7   | ug/l             | ND               | 0.291            | ND               | 0.119 J          | ND               | ND                       |
| 7440-02-0   | NICKEL                     | 100   | ug/l             | ND               | ND               | ND               | 7 J              | ND               | ND                       |
| 7440-09-7   | POTASSIUM                  | -   | ug/l             | 1960 J           | 5720             | 2920             | 2600             | 4400             | 4190                     |
| 7782-49-2   | SELENIUM                   | 10  | ug/l             | 14 J+            | 10.25 J+         | 16.8 J+          | 12.2 J+          | 17.6 J+          | 14.6 J+                  |
| 7440-23-5   | SODIUM                     | 20000   | ug/l             | 34900            | 370100           | 92400            | 277400           | 219300           | 211000                   |
| 7440-66-6   | ZINC                       | 2000 (G)  | ug/l             | 34.1             | 6.23 J           | ND               | ND               | ND               | ND                       |
| 57-12-5   | CYANIDE                    | 200   | ug/l             | ND               | 21               | 27               | ND               | 10               | 11                       |
| CAN   | CYANIDE, AMENABLE          | 200   | ug/l             | ND               | ND               | 7                | ND               | ND               | ND                       |

= Exceedance of NYSDEC Class GA Groundwater Standard

- (G) = Guidance Value
- ND = Not Detected
- J = Estimated Result
- J+ = Estimated Result, biased high

**TABLE 11**  
**2016 - Summary of Remedial Investigation Groundwater Analytical Data**  
**Round 2**

| Iberdrola<br>Pavillion Site<br>2016 Validated Groundwater Data - Round 2<br>SDG: H1201<br>Detected Compound Summary |                            | NYSDEC<br>Class GA<br>Groundwater<br>Standards/Guidance | Location ID:                | MW-01          | MW-02           | MW-03           | MW-04           | MW-05           | Dup of<br>MW-05-20160121 |
|---|----------------------------|---|-----------------------------|----------------|-----------------|-----------------|-----------------|-----------------|--------------------------|
| CAS NO.   | COMPOUND                   |   | Sample ID:                  | MW-01-20160120 | MW-02-20160121  | MW-03-20160121  | MW-04-20160120  | MW-05-20160121  | MW-05-20160121           |
|   | VOLATILES                  |   | Lab Sample Id:<br>H1201-01  | H1201-01       | H1201-04        | H1201-05        | H1201-06        | H1201-07        | H1201-08                 |
|   | NONE DETECTED              |   | Source:<br>CTECH            | CTECH          | CTECH           | CTECH           | CTECH           | CTECH           | CTECH                    |
|   | SEMIVOLATILES              |   | SDG:<br>H1201               | H1201          | H1201           | H1201           | H1201           | H1201           | H1201                    |
|   | NONE DETECTED              |   | Matrix:<br>WATER            | WATER          | WATER           | WATER           | WATER           | WATER           | WATER                    |
|   | PESTICIDES/HERBICIDES/PCBs |   | Sampled:<br>1/20/2016 11:00 | 1/21/2016 9:20 | 1/21/2016 11:30 | 1/20/2016 14:00 | 1/20/2016 14:00 | 1/21/2016 14:00 | 1/21/2016 15:00          |
|   | NONE DETECTED              |   | Validated:<br>2/23/2016     | 2/23/2016      | 2/23/2016       | 2/23/2016       | 2/23/2016       | 2/23/2016       | 2/23/2016                |
|   | INORGANICS                 |   | UNITS:                      |                |                 |                 |                 |                 |                          |
| 7429-90-5   | ALUMINUM                   | -   | ug/l                        | 228            | 131             | 78.1            | 96.5            | 149             | 122                      |
| 7440-38-2   | ARSENIC                    | 25  | ug/l                        | ND             | 3.7 J           | ND              | 7.12 J          | 4.75 J          | 4.26 J                   |
| 7440-39-3   | BARIUM                     | 1000  | ug/l                        | 70.3           | 385             | 76.7            | 417             | 180             | 170                      |
| 7440-70-2   | CALCIUM                    | -   | ug/l                        | 98700          | 185000          | 70300           | 88100           | 157000          | 150000                   |
| 7440-47-3   | CHROMIUM, TOTAL            | 50  | ug/l                        | 5.27 J         | 39              | 26.3            | 8.11            | 10.68           | 7.91                     |
| 7439-89-6   | IRON                       | 300   | ug/l                        | 263            | 11500           | 120             | 9870            | 2030 J          | 1100 J                   |
| 7439-95-4   | MAGNESIUM                  | 35000 (G)   | ug/l                        | 30100          | 14100           | 7420            | 9870            | 18100           | 17300                    |
| 7439-96-5   | MANGANESE                  | 300   | ug/l                        | 64.3           | 1010            | 238             | 922             | 494             | 463                      |
| 7439-97-6   | MERCURY                    | 0.7   | ug/l                        | ND             | 0.486           | ND              | 0.244           | ND              | ND                       |
| 7440-02-0   | NICKEL                     | 100   | ug/l                        | 4.56 J         | 9.01 J          | 6.99 J          | 9.74 J          | 6.64 J          | 6.03 J                   |
| 7440-09-7   | POTASSIUM                  | -   | ug/l                        | 3360           | 4710            | 2400            | 2140            | 3270            | 3110                     |
| 7782-49-2   | SELENIUM                   | 10  | ug/l                        | 7.51 J         | 6.79 J          | 10.14           | 7.79 J          | 7.74 J          | 9.26 J                   |
| 7440-23-5   | SODIUM                     | 20000   | ug/l                        | 45100          | 377000          | 87900           | 306000          | 202000          | 194000                   |
| 7440-66-6   | ZINC                       | 2000 (G)  | ug/l                        | 42.9           | 7.68 J          | 8.31 J          | ND              | ND              | 5.23 J                   |
| 57-12-5   | CYANIDE                    | 200   | ug/l                        | ND             | 7               | 14              | ND              | 4 J             | 9 J                      |

= Exceedance of NYSDEC Class GA Groundwater Standard

(G) = Guidance Value

ND = Not Detected

J = Estimated Result

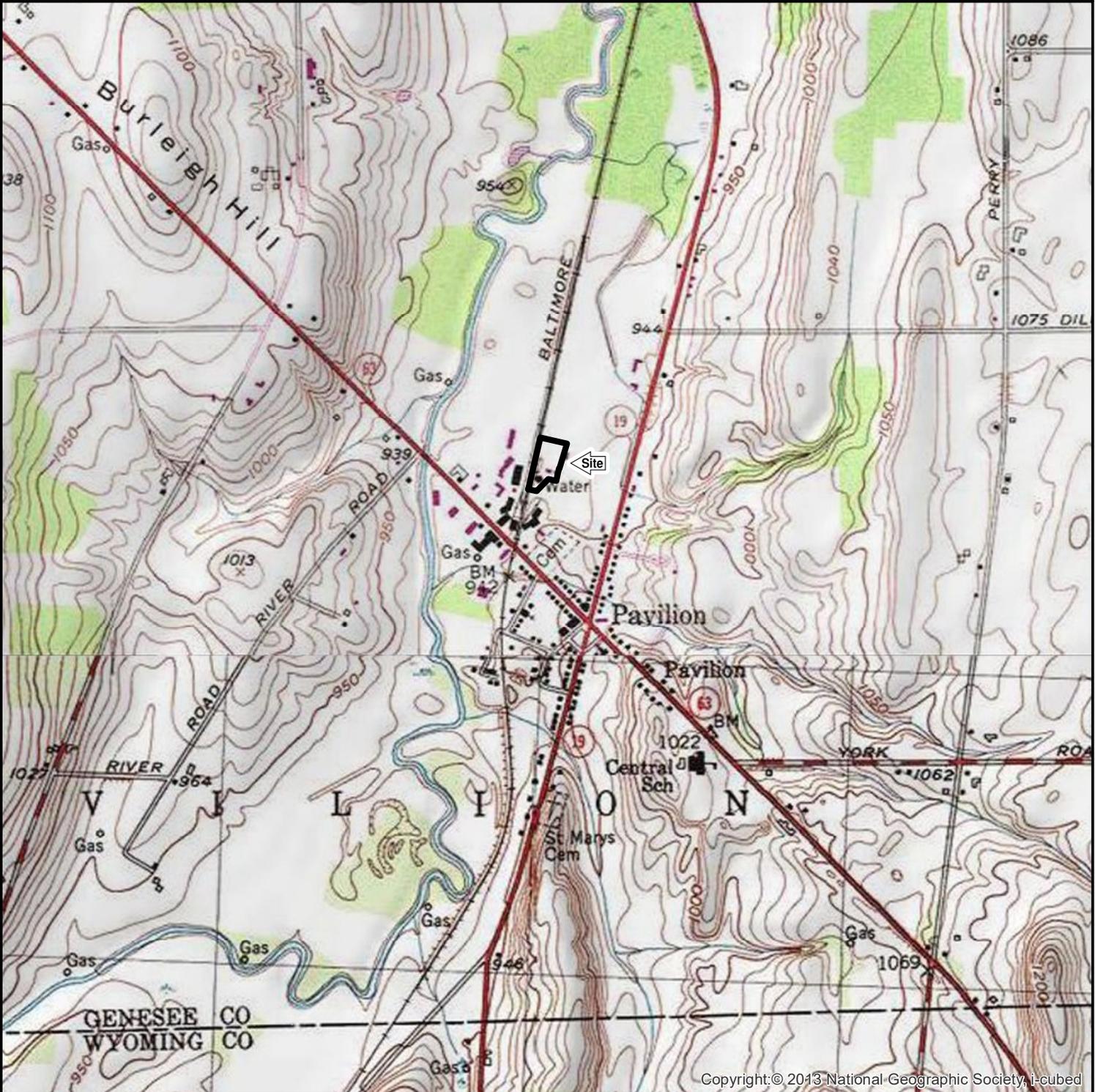
| <b>Table 12 PCB Wipe Sample Analytical Results (Gas Pipes)</b> |                        |                            |                            |                            |
|--|------------------------|----------------------------|----------------------------|----------------------------|
| <b>Parameter</b>   | <b>Units</b>           | <b>Wipe-6in-Pipe041119</b> | <b>Wipe-4in-Pipe041119</b> | <b>Wipe-3in-Pipe041119</b> |
| <b>PCBs</b>  |                        |                            |                            |                            |
| Aroclor-1016**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1221**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1232**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1242**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1248**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1254**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1260**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1262**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| Aroclor-1268**   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |
| PCBs (Total)   | µg/100 cm <sup>2</sup> | ND < 0.500                 | ND < 0.500                 | ND < 0.500                 |

## **Figures**

1. Site Location
2. Site Plan and IC Boundaries
3. Remaining Impacts and Limits of Excavation
4. Confirmatory Soil Sampling Location and Results
5. Site Cover System

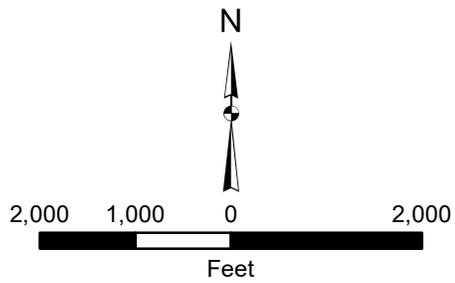
FIGURE 1 - SITE LOCATION

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MARCH 2021

ROCHESTER GAS AND  
ELECTRIC CORPORATION  
PAVILION FORMER MGP SITE  
6903 ELICOTT STREET ROAD  
PAVILION, NEW YORK



NEW YORK STATE -  
GENESEE COUNTY

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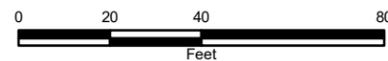


- LEGEND**
- ▲ SOIL BORING 2001
  - ▲ SOIL BORING 2015
  - ⊕ MONITORING WELL 2001
  - ⊕ MONITORING WELL 2015
  - ⊕ MONITORING WELL 2001 (ABANDONED)
  - TEST PIT 2001
  - TEST PIT 2015
  - CATCH BASIN
  - - - HISTORIC INFRASTRUCTURE
  - - - HISTORIC TRACKS
  - ✕ AS-BUILT FENCELINE
  - APPROXIMATE RG&E PROPERTY BOUNDARY - ENVIRONMENTAL EASEMENT LIMITS
  - EXISTING BUILDING
  - ▨ DEMOLISHED BUILDING

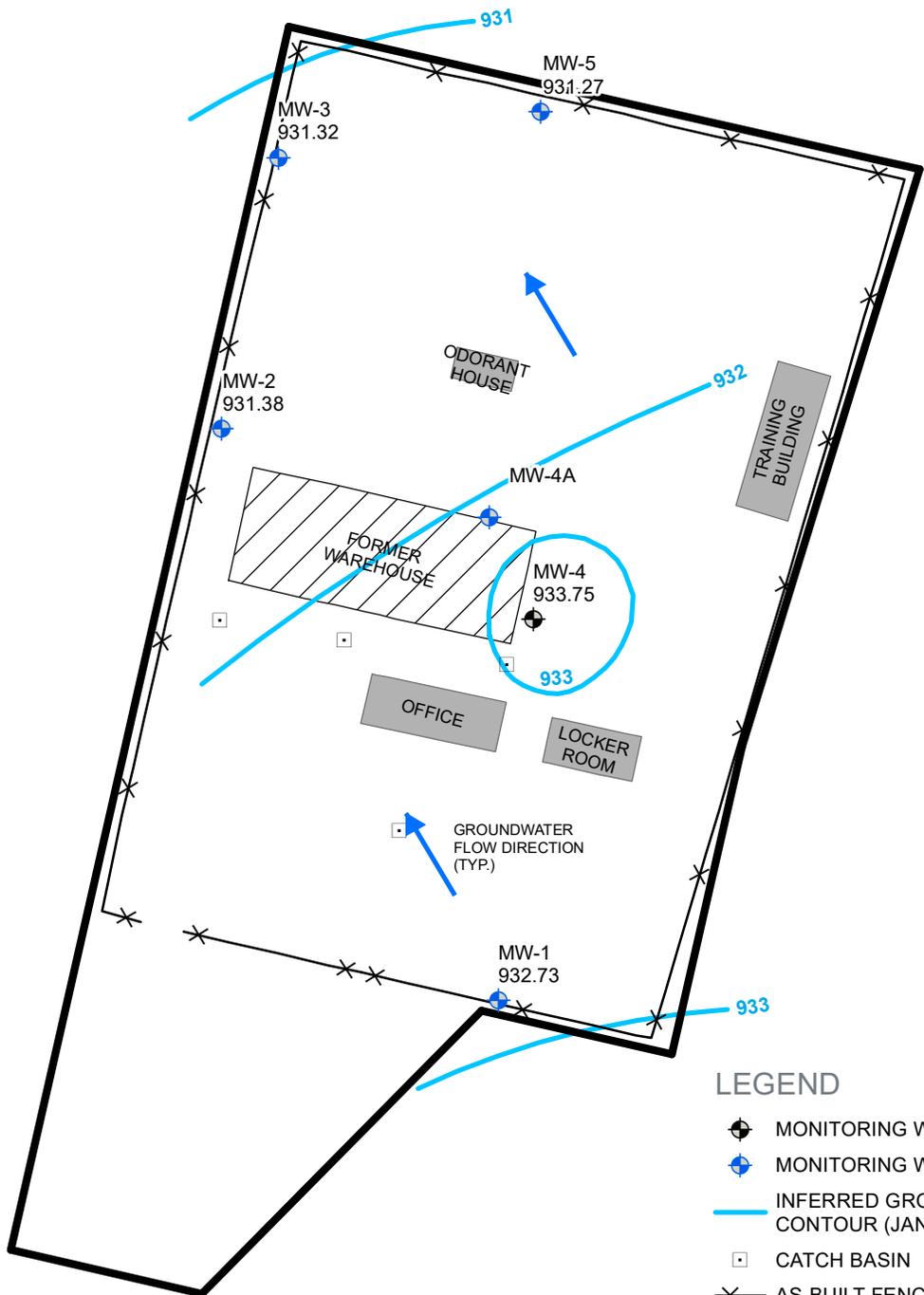
NOTE: HISTORIC SAMPLE LOCATIONS AND FEATURES PROVIDED BY PARSONS ENGINEERING, BASED ON REMEDIAL WORK PLAN FIGURE 2 (2018).

ROCHESTER GAS AND ELECTRIC CORPORATION  
 PAVILION FORMER MGP SITE  
 6903 ELICOTT STREET ROAD  
 PAVILION, NEW YORK

**SITE PLAN AND INSTITUTIONAL CONTROL BOUNDARIES**



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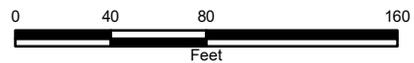
LEGEND

- MONITORING WELL (ABANDONED)
- MONITORING WELL
- INFERRED GROUNDWATER CONTOUR (JANUARY 2016)
- CATCH BASIN
- AS-BUILT FENCELINE
- APPROXIMATE RG&E PROPERTY BOUNDARY - ENVIRONMENTAL EASEMENT LIMITS
- EXISTING BUILDING
- DEMOLISHED BUILDING

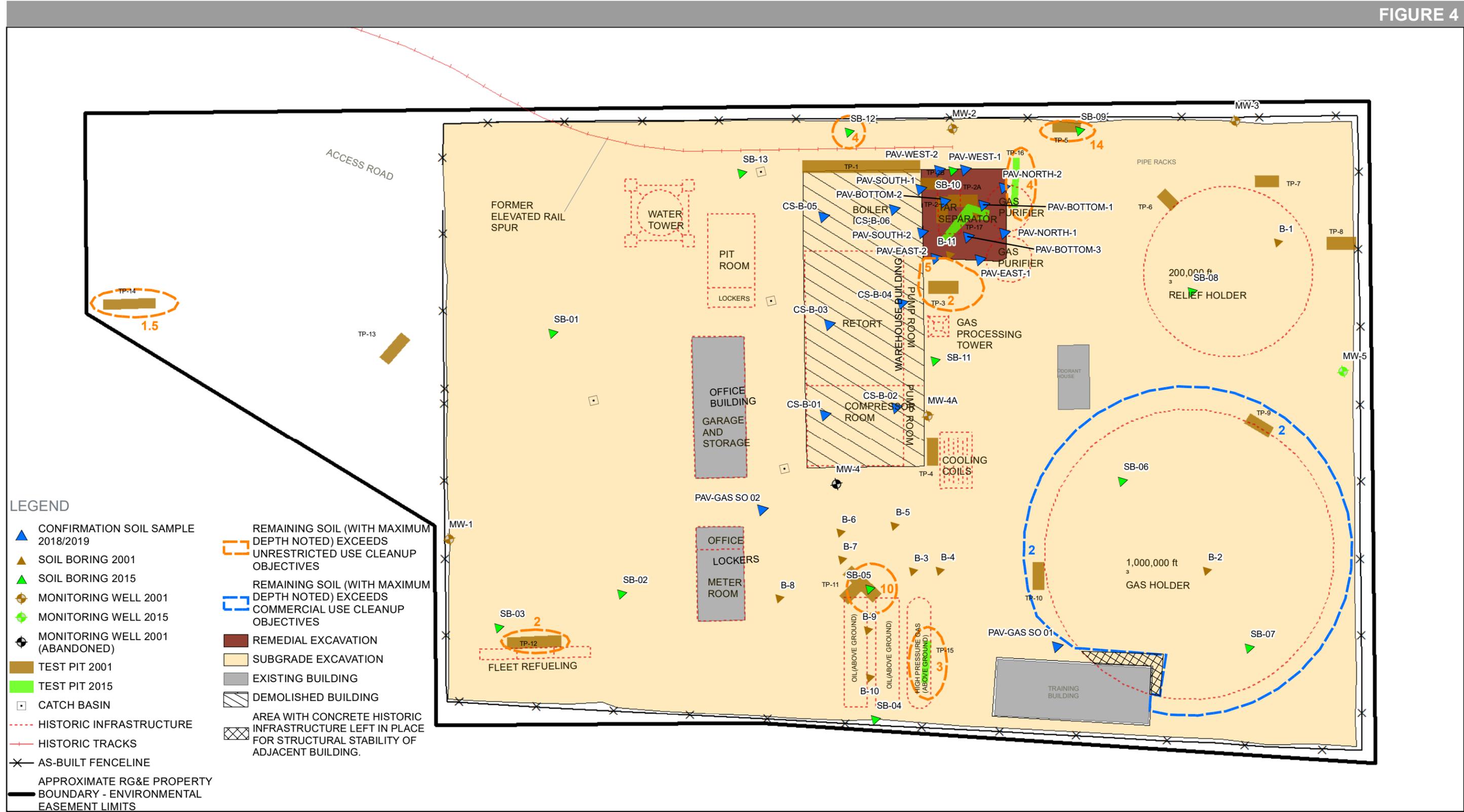
NOTE:  
 1) ALL WELL LOCATIONS ARE APPROXIMATE.  
 2) GROUNDWATER ELEVATIONS AND CONTOURS AS REPORTED ON FIGURE 3 OF THE RWP, JUNE 2018 (PARSONS).

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 PAVILION FORMER MGP SITE  
 6903 ELICOTT STREET ROAD  
 PAVILION, NEW YORK

GROUNDWATER CONTOUR MAP  
 JANUARY 2016

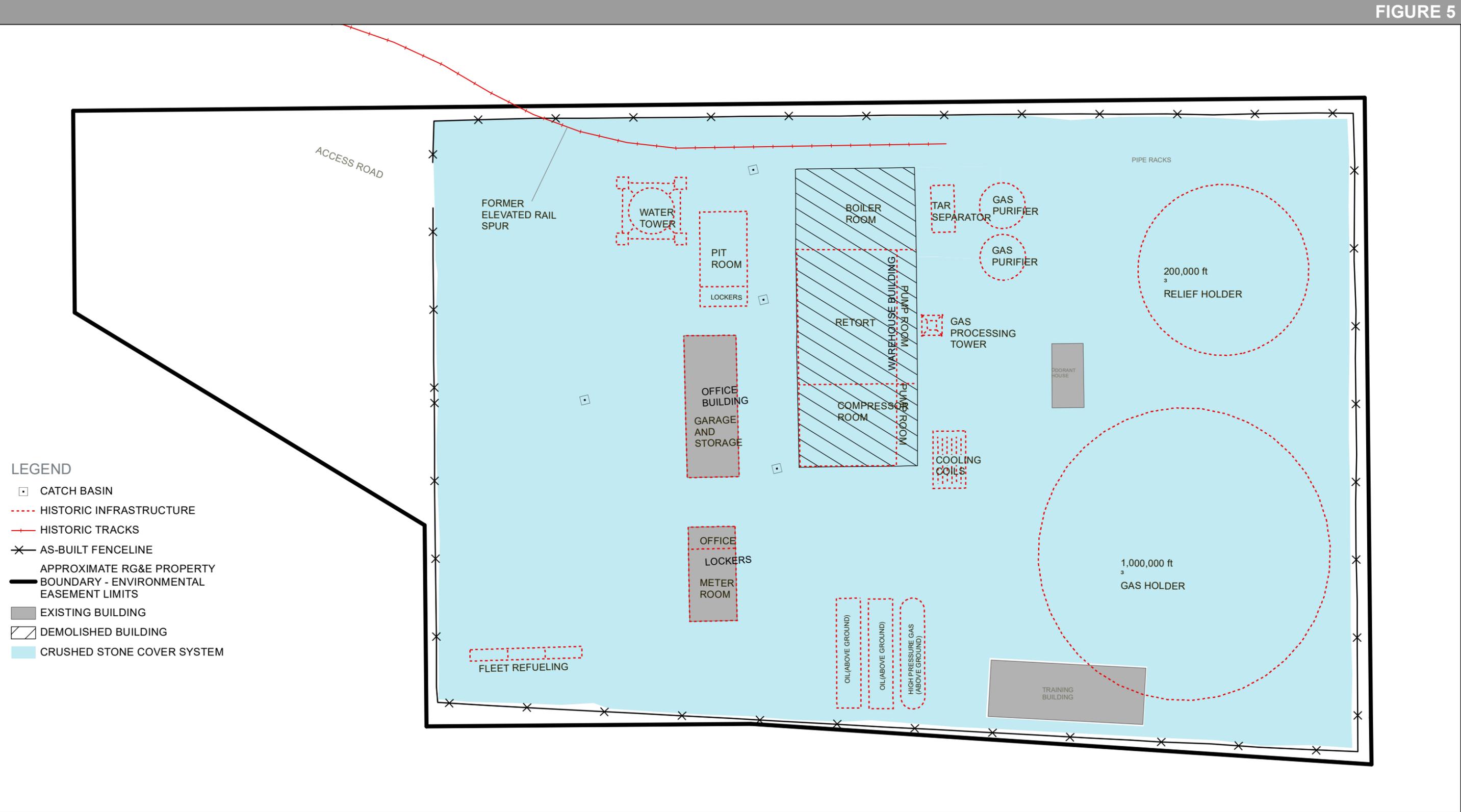


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NOTE: HISTORIC SAMPLE LOCATIONS AND FEATURES PROVIDED BY PARSONS ENGINEERING, BASED ON REMEDIAL WORK PLAN FIGURE 2 (2018).

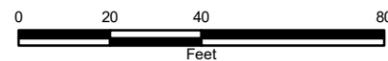
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NOTE: HISTORIC SAMPLE LOCATIONS AND FEATURES PROVIDED BY PARSONS ENGINEERING, BASED ON REMEDIAL WORK PLAN FIGURE 2 (2018).

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 PAVILION FORMER MGP SITE  
 6903 ELICOTT STREET ROAD  
 PAVILION, NEW YORK

**EXTENT OF SITE COVER SYSTEM**



## **Appendices**

- A. Site Management Plan (SMP)
- B. Remediation Contractor (AECOM) Submittals
- C. Remediation Engineer (Neu-Velle) Submittals
- D. Remediation-Related Approvals
- E. TSDf Permits and Waste Profiles
- F. Waste Manifests and Weight Tickets
- G. Data Usability Summary Reports (DUSRs)
- H. Analytical Laboratory Data Reports
- I. Digital Copy of the FER



## **Appendix A**

### **Site Management Plan (SMP)**

- a. Includes Survey Map, Metes and Bounds
- b. Includes Environmental Easement



## Appendix B

### Remediation Contractor (AECOM) Submittals

*Note: Italicized Submittals are not included but listed as they were previously designated but not necessary for the project. Only Final submittals are presented.*

- a. Submittal Log
- b. Submittal 1B – Project Site Specific HASP
  - Submittal 2A2 – Odor Control Products
  - Submittal 2B – Project Execution Plan
  - Submittal 3 – SWPPP (See Appendix D of RAWP)*
  - Submittal 4A – SWPPP Contractor Certification
  - Submittal 5 – SWPPP Inspection Reports
  - Submittal 6 – Contractor Field Construction Reporting
  - Submittal 7A – Dig Safe Report and Utility Investigation
  - Submittal 8A - Coir logs Product Data
  - Submittal 9 – Silt Fence Product Data (Not used)*
  - Submittal 10A – Aggregate Source Information and Product Data
  - Submittal 11A1 – Geotextiles Product Data
  - Submittal 11A2 – Geomembrane Product Data
  - Submittal 12A – Demarcation Layer Product Data
  - Submittal 13A1 – Field Compaction Report #1
  - Submittal 13A2 – Field Compaction Report #2
  - Submittal 14 – Disposal Documentation (See Appendix F)*
  - Submittal 15A – As-Built Drawings:
    - Pre-Construction Topo Survey
    - Final Excavation Survey
    - Post-Construction Final As-Built Survey
  - Submittal 16A – Pre-Construction Survey Requirements
  - Submittal 17A – Project Sign

## **Appendix C**

### **Remediation Engineer (Neu-Velle) Submittals**

- a. Health and Safety Plan (HASP)
- b. Quality Assurance Project Plan (QAPP)
- c. Daily CAMP Reports
- d. Daily Reports (includes photographic logs)
- e. Waste Characterization Report November 2018
- f. Asbestos Abatement Variance Report March 2019
- g. Monitoring Well Repair Letter Report September 2019
- h. Pre-Construction Inspection Report
- i. Post-Construction Inspection Report



## **Appendix D**

### **Remediation-Related Approvals**

- a. NYSDEC RAWP Approval Letter and Decision Document
- b. Parsons RAWP and Decision Document Acknowledgment Letter
- c. SWPPP Notice of Intent – Informational Purposes Only



## **Appendix E**

### **TSDF Permits and Waste Profiles**



## **Appendix F**

### **Waste Manifests and Weight Tickets**



## **Appendix G**

### **Data Usability Summary Reports (DUSRs)**

## **Appendix H**

### **Analytical Laboratory Data Reports**

## **Appendix I**

**Digital Copy of the FER**