SCHEDULE 1 – SCOPE OF WORK
NEWBURGH CITY LANDFILL
WA NO. D009812-15
SITE CHARACTERIZATION
APRIL 2021

The New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) has issued this Work Assignment (WA No. 15) under Standby Engineering Contract D009812 for the Newburgh City Landfill ("the Site") (NYSDEC Site No. 336063), located in the Newburgh, Orange County, New York. This Scope of Work (SOW) includes the following Site Characterization (SC) activities:

- WA Package preparation;
- Surface soil sampling;
- Test pit/soil boring/subsurface soil sampling;
- Monitoring well installation;
- Groundwater sampling;
- Surface water and sediment sampling;
- Land survey; and
- SC Report preparation.

This WA SOW has been prepared in accordance with the January 2021 WA Issuance/Notice to Proceed (WAI/NTP) letter, subsequent correspondence with the NYSDEC Project Manager (PM), and a preliminary Site visit. A schedule is provided at the end of this SOW and includes anticipated milestone dates for the completion of each WA task. The proposed tasks, based on the NYSDEC January 2021 WAI/NTP letter, are listed below and described in detail on the following pages:

- Task 1 – Preliminary Activities
- Task 2 – Environmental Sampling
- Task 3 – Reporting

Task 1 – Preliminary Activities

As part of Task 1, TRC Engineers, Inc. (TRC) will complete the following activities: a review of available historic Site information, a Site visit with the NYSDEC PM, and development of the WA Package. Each Task 1 activity is described below.

File Review

TRC will review available project documents provided by the NYSDEC under this subtask. In addition, TRC will obtain environmental and government database listings, historical aerial photographs, and fire insurance maps (as available) from Environmental Data Resources, LLC (EDR) for the Site. The intent will be to gain an understanding of known and potential contamination and the historical operations at the Site for the purposes of developing SC recommendations.

Site Visit (completed)

The investigation area includes the Newburgh City Landfill as well as upstream and downstream surface water/sediment sampling locations associated with the adjacent Gidneytown Creek. TRC met with the NYSDEC PM on January 28, 2021 to discuss Site access, physical features, and SC activities.

WA Package

As part of this subtask, TRC will prepare the WA Package for this assignment, including a cover letter and Schedule 1, Schedule 2, and Schedule 3 documentation. The complete WA Package will be sent to the NYSDEC's Contract Manager and PM for review and approval. TRC will review comments provided by the NYSDEC and revise the WA Package (as necessary), also as part of this subtask.

Task 2 – Environmental Sampling

For Task 2, TRC will perform/oversee the following site activities: mobilization, utility locating survey, Community Air Monitoring Plan (CAMP) implementation, surface soil sampling, test pits and direct push soil boring advancement, subsurface soil sampling, monitoring well installation, monitoring well development, groundwater sampling, surface water/sediment sampling, land survey, and investigation derived waste (IDW) management. It is TRC's understanding that laboratory sample analysis will be completed by a NYSDEC call-out laboratory. Each of the Task 2 activities are described in detail below.

General

- A site-specific Health and Safety Plan (HASP) will be prepared for the investigation activities based on the generic HASP and site-specific HASP template.
- A CAMP will be implemented (as necessary) during ground intrusive activities in accordance with the New York State Department of Health (NYSDOH) generic CAMP. The CAMP will include real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at one upwind and one downwind perimeter location during intrusive activities only. The CAMP will be implemented by the TRC scientist/engineer overseeing investigation activities.
- Investigation activities, including sample collection and analysis, will be completed in accordance with the Standby Engineering Services Contract, 6 NYCRR Part 375 Environmental Remediation Programs, NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (DER-10), NYSDEC Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375

Programs (NYSDEC PFAS Guidance), the HASPs, CAMP, Field Activities Plan (FAP), and Quality Assurance Project Plan (QAPP). Samples selected for analysis of per- and polyfluoroalkyl substances (PFAS) will be containerized first at each location.

- In addition to the sampling described below, quality control samples consisting of one field duplicate and one matrix spike/matrix spike duplicate (MS/MSD) sample will be collected in accordance with the QAPP (i.e., at a frequency of one per 20 sample matrix). Additionally, equipment blanks will be collected for analysis of PFAS in accordance with the QAPP (i.e., at a frequency of one per piece of non-dedicated sampling equipment per day). Equipment blanks will be collected for analysis for other parameters at a frequency of one per 20 sample matrix. The laboratory will provide NYSDEC Analytical Services Protocol (ASP) Category B data deliverable packages. A data validation subcontractor will prepare a Data Usability Summary Report (DUSR) for the analytical results, with the exception of pH and total organic carbon (TOC), under Task 3, described below. Electronic Data Deliverables (EDDs) in EQuIS format will be submitted to NYSDEC and the results will be presented in the SC Report.
- Finally, during performance of activities and in addition to the sampling described below, TRC will collect and submit up to three samples of encountered waste debris suspected to contain PFAS for PFAS (21-compound list) analysis via United States Environmental Protection Agency (USEPA) Method 537 Modified.

<u>Mobilization (Estimated Field Days to Complete: 1)</u>

Under this subtask, TRC will prepare for the SC and coordinate field work with the NYSDEC call-out laboratory and TRC utility locating, test pitting and drilling, IDW management, and land surveying subcontractors. TRC will confirm that the test pitting and drilling subcontractor has contacted Dig Safely New York (or appropriate utility locating service), received/reviewed utility confirmation receipts, and verified public utility mark-outs prior to intrusive work.

No less than four weeks prior to scheduled subcontractor mobilization, the drilling subcontractor will propose a potential water source for equipment decontamination during SC activities. If the drilling subcontractor cannot provide analytical data documenting concentrations of PFAS in the proposed water source TRC will collect one water sample from the proposed water source for PFAS (21-compound list) analysis via USEPA Method 537 Modified. Upon receipt of analytical results TRC will consult with NYSDEC as to the acceptability of the water source. Subcontractor mobilization will not occur until a suitable water source has been approved by NYSDEC.

Utility Locating Survey (Estimated Field Days to Complete: 1)

Prior to intrusive activities, a private utility locating survey will be conducted, in addition to the public utility mark outs, to clear proposed test pit and soil boring/monitoring well locations (shown on **Figure 1**). The utility locating surveyor will survey an approximately 15-foot radius around each proposed investigation location. Any subsurface utilities/structures/anomalies will be identified on the ground surface with spray paint and/or pin flags.

TRC will discuss any required test pit or soil boring repositioning, due to identified subsurface utilities/structures/anomalies, with the NYSDEC PM prior to installation. It is anticipated that minor offsets (10 feet or less) will not require prior notification/approval.

Surface Soil Sampling (To be Completed Concurrent with Utility Survey)

Surface soil samples from 0 to 2 inches and 2 to 12 inches below ground surface (bgs) will be collected at locations NL-SS-101 through NL-SS-104 shown on **Figure 1**. Soil samples will be collected via hand auger, screened for volatile organic compounds (VOCs) with a photoionization detector (PID), and will be analyzed for PFAS and 1,4-dioxane. Additionally, the sample selected for analysis from the 2 to 12 inch bgs interval from NL-SS-102, as indicated in **Table 1**, will be submitted to the NYSDEC call-out laboratory, for:

- Target Compound List (TCL) VOCs plus 10 Tentatively Identified Compounds (TICs) via USEPA Method 8260 – low level;
- TCL Semi-volatile organic compounds (SVOCs) plus 20 TICs via USEPA Method 8270;
- TCL Pesticides and Herbicides via USEPA Methods 8081 and 8151, respectively;
- Target Analyte List (TAL) metals plus mercury and cyanide via USEPA Methods 6010, 7471, and 9010, respectively; and
- Polychlorinated biphenyls (PCBs), 7-aroclor list, via USEPA Method 8082.

Test Pits (Estimated Field Days to Complete: 1)

Test pits will be advanced to the limit of the excavator (minimum 20-foot reach) or groundwater, whichever is encountered first, at locations NL-TP-101, NL-TP-102, and NL-TP-103, shown on **Figure 1**. One test pit will be advanced in the same manner at one alternate location, NL-TP-ALT, shown on **Figure 1**, if NL-TP-101, NL-TP-102, or NL-TP-103 cannot be accessed. Final locations will be determined in the field in consultation with the NYSDEC PM.

The location, depth and dimensions of each test pit will be recorded along with descriptions of the excavated material. Soil samples will be screened for VOCs using a PID, inspected for indications of contamination (e.g., staining, odors, etc.) and characterized using the Unified Soil Classification System (USCS). Geologic descriptions of the soil and field screening results will be recorded. Limits of waste, when encountered, will be clearly marked in the field for future surveying.

From each test pit location (NL-TP-101 through NL-TP-103 as shown on **Figure 1**), three soil samples will be collected for laboratory analysis. Samples from the following intervals will be submitted for analysis for PFAS (21-compound list) via USEPA Method 537 Modified and 1,4-dioxane via USEPA Method 8270 Selected Ion Monitoring (SIM): one from the surface (0 to 2 inches bgs), one from the 2 to 12 inches bgs interval, and one from the interval exhibiting the greatest evidence of contamination. Additionally, the sample selected for analysis from the interval exhibiting the greatest impacts from NL-TP-102, as indicated in **Table 1**, will be submitted to the NYSDEC call-out laboratory, for:

- TCL VOCs plus 10 TICs via USEPA Method 8260 – low level;
- TCL SVOCs plus 20 TICs via USEPA Method 8270;
- TCL Pesticides and Herbicides via USEPA Methods 8081 and 8151, respectively;
- Target Analyte List (TAL) metals plus mercury and cyanide via USEPA Methods 6010, 7471, and 9010, respectively; and
- PCBs, 7-aroclor list, via USEPA Method 8082.

Additionally, the soil sample selected from the 2 to 12 inch interval from each test pit will be analyzed for pH, TOC, and extracted by Synthetic Precipitation Leaching Procedure (SPLP) and analyzed for PFAS. If no evidence of contamination is observed, a sample collected from directly above groundwater, or the bottom of the test pit if groundwater is not encountered, will be submitted for laboratory analysis. A sampling plan summary is provided in **Table 1**.

At each location material excavated will be returned to the excavation using a "last out – first in" sequence.

Direct Push Soil Borings (Estimated Field Days to Complete: 2)

Up to three soil borings (NL-MW-101 through NL-MW-103) will be advanced to maximum depths of 40 feet bgs, apparent depth to water, or refusal, whichever is encountered first. Proposed soil boring locations are shown on **Figure 1**. The maximum termination depth of NL-MW-103 will be 30 feet bgs. Soil samples will be collected continuously from ground surface to the termination depth utilizing 4-foot long Macro-Core® samplers. Recovered soil will be classified for lithology by TRC personnel and screened [visual, olfactory, and photoionization detector (PID)] for indications of contamination. A sampling plan summary is provided in **Table 1**.

At each soil boring location, up to three soil samples will be selected for laboratory analysis. Samples will be selected from the following intervals: one from the surface (0 to 2 inches bgs), one from the interval 2 to 12 inches bgs, and one from the interval exhibiting the greatest evidence of contamination (or directly above the groundwater table if no evidence of contamination is observed).

A summary of the proposed analytical sampling plan is presented in **Table 1**. All soil samples selected for analysis will be analyzed for PFAS (21-compound list) via USEPA Method 537 Modified and 1,4-dioxane

via USEPA Method 8270 SIM. Additionally, the sample selected for analysis from the interval exhibiting the greatest impacts from NL-MW-101, as indicated in **Table 1**, will be submitted to the NYSDEC call-out laboratory, for:

- TCL VOCs plus 10 TICs via USEPA Method 8260 – low level;
- TCL SVOCs) plus 20 TICs via USEPA Method 8270;
- TCL Pesticides and Herbicides via USEPA Methods 8081 and 8151, respectively;
- TAL metals plus mercury and cyanide via USEPA Methods 6010, 7471, and 9010, respectively; and
- PCBs, 7-aroclor list, via USEPA Method 8082.

The sample selected for analysis from the 2 to 12-inch interval from NL-MW-101 will also be analyzed for pH, TOC, and extracted by SPLP for subsequent analysis of PFAS (21-compound list) via USEPA Method 537 Modified.

Monitoring Well Installation (Estimated Field Days to Complete: 3)

Three overburden groundwater monitoring wells, co-located with soil borings, will be installed. Proposed monitoring well locations are shown on **Figure 1**.

Each monitoring well borehole will be advanced using 4.25-inch inside diameter hollow stem augers (HSAs) to a maximum depth of 40 feet. Monitoring wells will be constructed utilizing 2-inch diameter Schedule 40 poly-vinyl chloride (PVC) riser and 10 feet of 10-slot screen. The top of well screen will installed two feet above the surface of the water table. The annulus between the well and borehole wall will be backfilled with No. 2 Morie sand to 2 feet above the well screen. A 1-foot thick (minimum) layer of choker sand (Morie No. 00) shall be placed directly above the filter pack. A 2-foot thick (minimum) hydrated bentonite seal will be placed directly above the choker sand, and the remaining annular space above the seal will be grouted to the ground surface. Each well will be completed at ground surface with a locking expansion plug and within a standard stick-up protective casing and concrete pad. Final well constructions may be modified based upon encountered field conditions. Up to three equipment blanks will be collected from the materials used for well construction and analyzed for PFAS (21-compound list) by via USEPA Method 537 Modified.

Monitoring Well Development (Estimated Field Days to Complete: 1)

Following installation, the drilling subcontractor will develop each of the newly installed monitoring wells utilizing surging and pumping techniques. High-density polyethylene (HDPE) tubing and equipment compatible with the recommendations for PFAS purging protocols will be used. Groundwater quality parameters (e.g., temperature, conductivity, turbidity, oxidation-reduction potential, etc.) will be monitored prior to, during (at a minimum frequency of once per well volume purged), and at the conclusion of

development. Development will be considered complete when either turbidity is below 50 nephelometric turbidity units (NTUs), the well purges dry, or 10 well volumes have been removed, whichever occurs first.

Groundwater Sampling (Estimated Field Days to Complete: 2)

A minimum of two weeks after well development activities have been completed, groundwater samples will be collected from the newly installed monitoring wells, and existing monitoring wells CTM-MW-2, MW-3, MW-5, MW-8, and MW-9, utilizing low-flow sampling techniques. Similar to the well development subtask, HDPE tubing and equipment compatible with the recommendations for PFAS purging protocols will be used. Prior to sampling, the monitoring wells will be screened with a PID and gauged for total well depth and depth to water. Field data will be recorded in a field log book. Depth to water measurements will be used to prepare groundwater surface elevation contour maps, to be provided in the SC Report (to be prepared as part of Task 3, described below).

A summary of the proposed analytical sampling plan is presented in **Table 1**. All groundwater samples will be analyzed for PFAS (21-compound list) via USEPA Method 537 Modified and 1,4-dioxane via USEPA Method 8270 SIM. Additionally, groundwater samples for analysis from NL-MW-101 and NL-MW-103, as indicated in **Table 1**, will be submitted to the NYSDEC call-out laboratory, for:

- TCL VOCs plus 10 TICs via USEPA Method 8260 – low level;
- TCL SVOCs plus 20 TICs via USEPA Method 8270;
- TCL Pesticides and Herbicides via USEPA Methods 8081 and 8151;
- TAL metals plus mercury and cyanide via USEPA Methods 6010, 7470, and 9010, respectively; and
- PCBs, 7-aroclor list, via USEPA Method 8082.

Surface Water and Sediment Sampling (Estimated Field Days to Complete: 1)

Surface water samples will be collected from Gidneytown Creek at three locations: one downstream (NL-WS-03/NL-SE-03) of the Site, one in the central portion of the Site (NL-WS-02/NL-SE-02), and one upstream (NL-WS-01/NL-SE-01) of the Site. Sediment samples will be co-located with surface water samples. The proposed surface water and sediment sample locations are shown on **Figure 1**. Sediment samples will be collected utilizing a hand auger equipped with a sludge sampler to prevent the loss of solids upon retrieval. Samples will be collected in accordance with the generic FAP and in accordance with NYSDEC PFAS Guidance. Surface water and sediment sampling will begin at the location downstream of the Site and progress upstream.

A summary of the proposed analytical sampling plan is presented in **Table 1**. All surface water and sediment samples will be analyzed for PFAS (21-compound list) via USEPA Method 537 Modified and 1,4-dioxane via USEPA Method 8260 SIM. Two surface water and two sediment samples (collected from

locations upstream and downstream of the Site) will be selected for analysis for the complete list of analytes included in the Groundwater Sampling section above.

Land Survey (Estimated Field Days to Complete: 1)

The land survey will include Task 2 sampling locations and significant Site physical features. The surveyor will collect locations (coordinates) and elevations of the following:

- Four surface soil sampling locations;
- Boundaries and center points of three test pits;
- Three monitoring wells including elevations of adjacent ground surface, top of stick-up protective casing elevations, and top of PVC riser elevations; and
- Significant Site physical features.

Additionally, the survey will collect the locations (coordinates) of three surface water/sediment locations. A survey report, documenting the coordinates/elevations of Task 2 sampling locations and including a drawing showing surveyed points and significant Site features, will be signed and sealed by a Professional Land Surveyor (PLS) licensed to practice in the State of New York, and provided in the SC Report.

Investigation Derived Waste

Investigation derived waste is anticipated to include the following: decontamination fluids, well development and purge water, and soil cuttings. Wash and rinse water used for equipment decontamination, development water, purge water, and soil cuttings will be containerized in Department of Transportation (DOT)-approved 55-gallon drums for off-Site disposal. Waste characterization sampling and analysis will be performed. A summary of the proposed analytical sampling plan is presented in **Table 1**. Used personal protective equipment (PPE) and disposable sampling equipment will be bagged as regular refuse and disposed as solid waste, unless grossly contaminated.

Materials containerized for off-Site disposal will be temporarily staged on pallets at a location that is acceptable to the NYSDEC and the property owner. Containerized materials will be clearly marked to indicate the contents of the containers, the date of generation, and the material source. IDW will be properly disposed of within 120 days of generation.

Task 3 – Reporting

The SC Report will present the results of the investigation and be prepared in accordance with the applicable provisions of NYSDEC DER-10 and include the following:

- Background information for the Site;
- Description of field investigation activities performed;

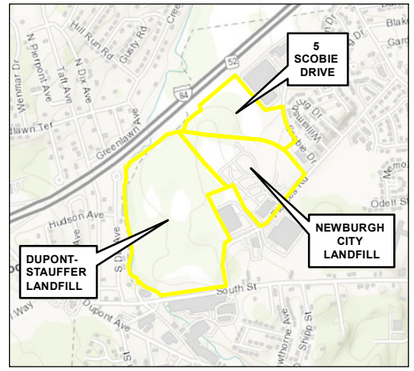
- Characteristics of the area investigated, including physical features, geology and hydrogeology, geologic cross-sections, and groundwater potentiometric surface figures;
- Identification of applicable standards, criteria and guidance (SCGs);
- Investigation, testing, and sampling results including a comparison to SCGs (as applicable);
- Data usability evaluation including a data usability summary report (DUSR);
- Figures showing site features, sample locations, contaminant distribution, etc.; and,
- Conclusions regarding the significance of SC findings including an evaluation for reclassification/delisting or recommendations for additional investigation activities.

Project Schedule

Task No.	Task Description	Est. Time of Completion
1	*Preliminary Activities*	
	File Review	April 2021
	Site Visit	
	WA Package	
2	*Environmental Sampling*	
	Utility Locating Survey	2 months after WA approval
	Surface Soil Sampling	
	Test Pits	
	Direct Push Soil Borings	
	Monitoring Well Installation	
	Monitoring Well Development	
	Groundwater Sampling	
	Surface Water and Sediment Sampling	
	Land Survey	
	Investigation Derived Waste	120 days following generation
3	*Reporting*	August 2021

TRC - GIS

Plot Date: 3/30/2021, 22:57:44 PM by MGIAMBATTISTA -- LAYOUT: ANSI B(11"x17") Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet (Foot US)
Path: M:\ArcGIS Files\428198\MAP DOCUMENTS\SAMPLE LOCATION PLAN.mxd Map Rotation: 0



KEYMAP
SCALE:1"=2000'

LEGEND

MW-3	MONITORING WELL LOCATION
NL-MW-101	PROPOSED MONITORING WELL LOCATION
NL-WS-01 /NL-SE-01	PROPOSED SURFACE WATER/SEDIMENT SAMPLE LOCATION
NL-SS-101	PROPOSED SURFACE SOIL SAMPLE LOCATION
NL-TP-103	PROPOSED TEST PIT LOCATION
NL-TP-ALT	PROPOSED ALTERNATE TEST PIT LOCATION
	APPROXIMATE FORMER DRUM CACHE AREA
	PARCEL BOUNDARY

NOTES

1. AERIAL IMAGERY DATED SEPTEMBER 22, 2020 PROVIDED BY NEARMAP.

2. PARCEL DATA PROVIDED BY NYS GIS DATABASE.

3. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES, BOUNDARIES AND SAMPLE LOCATIONS ARE APPROXIMATE.

0 200 400 Feet
1 " = 200 '

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEWBURGH CITY LANDFILL - SITE NO. 336063
NEWBURGH, ORANGE COUNTY, NEW YORK 12550

TITLE:
SAMPLE LOCATION MAP

DRAWN BY:	M. GIAMBATTISTA	PROJ NO.:	428198.0000.0000
CHECKED BY:	D. WARREN		
APPROVED BY:	C. GUDER		**FIGURE 1**
DATE:	MARCH 2021		

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FILE NO.: SAMPLE LOCATION PLAN.mxd

Table 1
New York State Department of Environmental Conservation
Newburgh City Landfill - NYSDEC Site No. 336063
Newburgh, New York
Site Characterization
Sample Analysis Summary

Sample Location	Sample Matrix	Number of Samples for Analysis	Analytical Parameters
SURFACE SOIL INVESTIGATION			
NL-SS-101	Soil	2	PFAS and 1,4-Dioxane
NL-SS-102	Soil	2	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-SS-103	Soil	2	PFAS and 1,4-Dioxane
NL-SS-104	Soil	2	PFAS and 1,4-Dioxane
MS/MSD	Soil	1	PFAS and 1,4-Dioxane
Blind Duplicate	Soil	1	PFAS and 1,4-Dioxane
Equipment Blank	Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
	Total	**11**	
Note: Samples collected from the 0-2” interval will not be analyzed for VOCs.			
SUBSURFACE INVESTIGATION			
NL-MW-101	Soil	3	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-MW-102	Soil	3	PFAS and 1,4-Dioxane
NL-MW-103	Soil	3	PFAS and 1,4-Dioxane
NL-TP-101	Soil	3	PFAS and 1,4-Dioxane
NL-TP-102	Soil	3	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-TP-103	Soil	3	PFAS and 1,4-Dioxane
MS/MSD	Soil	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Blind Duplicate	Soil	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Equipment Blank	Water	5	PFAS
Equipment Blank	Water	1	TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
	Total	**26**	
Note: Select samples collected from the 2-12” interval will also be analyzed for pH, Total Organic Carbon (TOC), and tested by Synthetic Precipitation Leaching Procedure (SPLP). The SPLP extract will be analyzed for PFAS. Samples collected from the 0-2” interval will not be analyzed for VOCs.			
GROUNDWATER SAMPLING			
NL-MW-101	Groundwater	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-MW-102	Groundwater	1	PFAS and 1,4-Dioxane
NL-MW-103	Groundwater	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
CTM-MW-2	Groundwater	1	PFAS and 1,4-Dioxane
MW-3	Groundwater	1	PFAS and 1,4-Dioxane
MW-5	Groundwater	1	PFAS and 1,4-Dioxane
MW-8	Groundwater	1	PFAS and 1,4-Dioxane
MW-9	Groundwater	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Trip Blank	Water	1	TCL VOCs +10
MS/MSD	Groundwater	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Blind Duplicate	Groundwater	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Equipment Blank	Water	2	PFAS
Equipment Blank	Water	1	TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
	Total	**14**	
SURFACE WATER			
NL-WS-01	Surface Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-WS-02	Surface Water	1	PFAS and 1,4-Dioxane
NL-WS-03	Surface Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Trip Blank	Water	1	TCL VOCs +10
MS/MSD	Surface Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Blind Duplicate	Surface Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Equipment Blank	Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
	Total	**7**	
SEDIMENT			
NL-SE-01	Sediment	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
NL-SE-02	Sediment	1	PFAS and 1,4-Dioxane
NL-SE-03	Sediment	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
MS/MSD	Sediment	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Blind Duplicate	Sediment	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
Equipment Blank	Water	1	PFAS, TCL VOCs +10, TCL SVOCs +20, TCL Pesticides/Herbicides, PCBs, TAL Metals (plus Hg and CN), and 1,4-Dioxane
	Total	**6**	
OTHER			
NL-SP	Water Source	1	PFAS
Landfill Waste	Waste Material	3	PFAS
NL-WC-LIQUID	Liquid Waste	1	pH, Total Organic Halides, Ignitability, Corrosivity, and Reactivity
NL-WC-SOLID	Solid Waste	1	Full List TCLP (TCL VOCs, TCL SVOCs, TCL Pesticides/Herbicides, TAL Metals plus Hg and CN), PCBs, pH, Paint Filter, Total Organic Halides, Ignitability, Corrosivity, and Reactivity
	Total	**6**	

Notes:

NL	: Newburgh City Landfill	SPLP	: Synthetic Precipitation Leaching Procedure
GW	: Groundwater	SVOCs	: Semi-volatile Organic Compounds
MS/MSD	: Matrix Spike/Matrix Spike Duplicate	TAL	: Target Analyte List
MW	: Monitoring Well	TCL	: Target Compound List
PCBs	: Polychlorinated Biphenyls (7 Aroclor List)	TCLP	: Toxicity Characteristic Leaching Procedure
PFAS	: Per- and Polyfluoroalkyl Substances (List of 21)	TICs	: Tentatively Identified Compounds
SE	: Sediment	VOCs	: Volatile Organic Compounds
SP	: Standpipe	WS	: Surface Water