General Electric Company

DATA SUMMARY REPORT FOR TRIBUTARY T11A REMOVAL ACTION UNDER PARAGRAPH 47.f

Dewey Loeffel Landfill Superfund Site

Nassau, New York

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1 INTRODUCTION AND BACKGROUND

This Data Summary Report summarizes data collected during the habitat assessment and additional sediment and soil sampling in Tributary T11A of the Valatie Kill and the upstream Former Mead Road Pond Area and Northwest Drainage Ditch, located in the Town of Nassau, Rensselaer County, New York. Sampling and analysis was performed in accordance with the Sampling and Analysis Plan submitted to the United States Environmental Protection Agency (EPA) on October 26, 2017 and approved by the EPA that same day (Arcadis of New York, Inc. [Arcadis] 2017). Both the Sampling and Analysis Plan and this Data Summary Report have been prepared under Paragraph 47.f of the Administrative Settlement Agreement and Order on Consent for a Removal Action (Comprehensive Environmental Response, Compensation, and Liability Act Index No. 02-2012-2005; Removal Order) pursuant to the Revised Proposal Under Paragraph 47.f submitted by General Electric Company (GE) and accepted by the EPA on September 7, 2017 (GE 2017). Solely on behalf of GE, Arcadis performed the sampling and analysis activities as outlined below.

The remainder of this section provides background information regarding the areas of interest, which are Tributary T11A, Northwest Drainage Ditch, and Former Mead Road Pond Area.

1.1 Tributary T11A

Tributary T11A is a small stream that flows northwesterly through a steep-sided, wooded ravine from the Former Mead Road Pond Area to the Valatie Kill (Figure 1). Tributary T11A is approximately 1,900 feet long and slopes at an approximate 7% grade. Tributary T11A often has low and, in the upper reach, intermittent flow rates, although the flow is highly variable based on precipitation and snowmelt events. The total watershed area for Tributary T11A is approximately 75 acres as measured at its confluence with the Valatie Kill.

Sediment/soil sampling events, which included total polychlorinated biphenyl Aroclors (PCBs) analysis, were performed in Tributary T11A in 1989 and again during the previous Remedial Investigation (RI) between 1993 and 1996 conducted under the direction of the New York State Department of Environmental Conservation (NYSDEC). Additionally, sediment/soil sampling was again conducted in 2002 during pre-design activities associated with the excavation of fine-grained sediment in Tributary T11A.

PCBs in sediment samples collected in Tributary T11A before the 2002/2003 remedial action ranged from non-detect (ND) to 230 parts per million (ppm; which is equivalent to milligrams per kilogram). Approximately 1,200 tons (760 cubic yards [cy]) of fine-grained sediment was removed from Tributary T11A in October 2002 through January 2003 to depths ranging from approximately 0.5 to 2.4 feet (approximately 1 foot on average). During the excavation activities, and as directed by the NYSDEC, GE collected four confirmation samples to confirm the limits of the excavations. PCBs in these samples ranged from ND to 5 ppm. Based on the PCB results, additional excavation was completed at three of the four sample locations. Another six confirmation samples were planned, but these samples could not be collected due to a lack of sediment (i.e., excavation into the native till) at the proposed sample locations.

In 2009, in response to fish and suspended sediment sample results, the NYSDEC collected four soil samples in Tributary T11A. PCBs were detected in each of the four soil samples at concentrations ranging from 2.1 to 22 ppm, quantified as Aroclor 1260. At the NYSDEC's request, in 2009 the EPA collected six sediment samples from Tributary T11A.[1] PCBs in these samples ranged from 0.19 to 0.77 ppm, also quantified as Aroclor 1260.

Given the 2009 results, GE collected a total of 51 sediment samples and 115 soil samples from Tributary T11A in April and August 2010. The work was completed in accordance with the Supplemental Investigation of Tributary T11A Statement of Work (Arcadis 2010a), which was approved by the NYSDEC on February 10, 2010. Sediment PCBs from the 2010 investigation ranged from 0.30 to 23 ppm, while soil PCBs ranged from 0.05 to 407 ppm. Results of the April and August sampling events are summarized in letter reports submitted to the NYSDEC (Arcadis 2010b, 2010c).

As a follow-up to the 2010 sampling, GE submitted a Statement of Work for additional soil sampling to the NYSDEC in December 2010. The objective was to further assess the presence of PCBs in locations in and adjacent to Tributary T11A where PCBs at or greater than 50 ppm had been detected earlier in 2010. Following NYSDEC approval, GE collected 47 additional soil samples in June 2011, with PCB concentrations ranging from 0.12 to 1,340 ppm. The results are summarized in a letter report submitted to the NYSDEC (Arcadis 2011). Also, in August 2012, the results of hydraulic modeling of Tributary T11A were submitted to the NYSDEC to define the approximate extent of Tributary T11A during various rain storms, including 25-year, 24-hour and 50-year, 24-hour storm events (Arcadis 2012). Based on the observations made during the 2017 habitat assessment (discussed in Sections 2.2 and 2.3), the results of the 2012 hydraulic modeling of Tributary T11A are considered relevant, and no further updates are required at this time.

In March 2011 at the NYSDEC's request, the EPA listed Dewey Loeffel Landfill on the National Priorities List, otherwise known as Superfund. GE has entered into three agreements with the EPA: the Removal Order in 2012, the RI/Feasibility Study (FS) Order for landfill and groundwater in 2013, and the RI/FS Order for the drainageways also in 2013.

In January 2014, GE collected 91 soil and sediment samples in Tributary T11A in accordance with Paragraph 47.f of the Removal Order. These samples were collected from Sample Site F, areas outside the extent of stream (OES) based on the 25-year, 24-hour rainfall event, and areas inside extent of stream (IES) based on a 25-year, 24-hour rainfall event. For the 18 Sample Site F soil samples, PCBs ranged from ND to 274 ppm. For the 60 OES soil samples, PCBs ranged from ND to 107 ppm. Finally, for the 13 soil or sediment samples collected from IES, PCBs ranged from 0.25 to 264 ppm.

In summary, for the 58 sediment samples and 256 soil samples collected between 2009 and 2014 (i.e., after the 2002/2003 remediation), sediment PCBs ranged from 0.19 to 23 ppm (average [i.e., arithmetic mean] of 4.7 ppm; median of 3.2 ppm) and soil PCBs ranged from ND to 1,340 ppm (average of 29 ppm; median of 2.3 ppm).[2] The samples with the highest detected PCBs (i.e., those samples with PCBs greater than 50 ppm) were from the top 6-inch and 6- to 12-inch intervals. No locations deeper than 12 inches

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[1] A seventh sample, DDL-SED47A, was also collected, with a PCB concentration of 1.0 ppm. However, this sample could not be located in the field based on the survey coordinates provided by the EPA; therefore, it is not included in summary tables/figures and the discussion related to historical sampling for Tributary T11A.

[2] For development of statistics presented in this report, blind duplicate samples were not counted individually in the quantity of samples, and duplicate results were averaged with the parent sample. Additionally, half the reporting limit was used for ND data when developing summary statistics.

had PCBs greater than 5 ppm. Appendix A, Tables A-1 and A-2 provide the historical soil and sediment PCBs for Tributary T11A, and results are illustrated by sample depth interval on Figures 1A through 1D.

1.2 Northwest Drainage Ditch and Former Mead Road Pond Area

The Former Mead Road Pond Area is located to the northwest and west of Dewey Loeffel Landfill (Figure 2). Most of the surface water runoff from the landfill flows under Mead Road through two 30-inch-diameter culvert pipes into the Northwest Drainage Ditch, which travels in a westerly direction approximately 400 feet before passing the Low-Lying Area, a small 1-acre wet area just northeast of the Former Mead Road Pond Area. The drainage channel extends another 400 feet (through the inlet to the Former Mead Road Pond Area, the Former Mead Road Pond Area, and the outlet from the Former Mead Road Pond Area) before entering Tributary T11A. Based on qualitative historical visual observations, the drainage channel through the Former Mead Road Pond Area has low and intermittent flow rates, although flow is highly variable based on precipitation and snowmelt events. The watershed area is approximately 25 acres, as measured at the end of the outlet from the Former Mead Road Pond (inlet to Tributary T11A).

Sediment/soil sampling was performed in the Former Mead Road Pond Area between 1988 and 1991, and again during the previous RI between 1992 and 1996. In 2000, several sampling events were also performed during pre-design activities associated with the Former Mead Road Pond Interim Remedial Measures (IRM).

Prior to the performance of the 2001 IRM in the Former Mead Road Pond Area, PCBs in sediment and soil samples in the Northwest Drainage Ditch, Low-Lying Area, Former Mead Road Pond Area spoil banks, and outlet from the Former Mead Road Pond Area (all of which had a higher concentration of PCBs than the pond itself) were up to 470 ppm, 18 ppm, 410 ppm, and 180 ppm, respectively. During the IRM, the NYSDEC and/or GE collected a total of 24 confirmation samples to guide additional excavations in select areas and to confirm the actual limits of excavation. The IRM included the removal of approximately 9,600 tons (6,400 cy) of PCB-impacted sediment and soil. For the Northwest Drainage Ditch and Low-Lying Area, excavation depths ranged from 1 foot to 2 feet, while the Former Mead Road Pond Area excavation ranged from 1 foot to 7 feet.

In 2009, at the NYSDEC’s request, the EPA collected four sediment/soil samples from the drainage channel in the Former Mead Road Pond Area. PCBs were ND in two samples, 0.17 ppm in one sample, and an estimated concentration of 3.5 ppm in one sample (collected from the inlet to the Former Mead Road Pond). These results were all well below pre-IRM levels. All detected PCBs were quantified as Aroclor 1260.

As part of the December 2010 Statement of Work for additional sampling, which was approved by the NYSDEC in June 2011, GE collected 16 sediment samples from the drainage channel in the Former Mead Road Pond Area to further assess the potential for transport of PCBs into Tributary T11A. PCBs in those sediment samples ranged from ND to 12.8 ppm. These results are summarized in a letter report submitted to the NYSDEC (Arcadis 2011). The average and median for these samples were 1.8 ppm and 0.57 ppm, respectively. Detected PCBs were all quantified as including Aroclor 1260. Additionally, five sediment samples contained PCBs that were quantified as including Aroclor 1248.

On December 18, 2013, GE collected 41 additional sediment/soil samples in the Former Mead Road Pond Area in accordance with Paragraph 47.f of the Removal Order. PCBs ranged from ND to 18.1 ppm. The average and median for these samples were 1.7 ppm and 0.35 ppm, respectively.

For the 61 samples collected between 2009 and 2013, PCBs ranged from ND to 18.1 ppm, with an average of 1.7 ppm and a median of 0.40 ppm. Appendix A, Tables A-3 and A-4 provide the historical soil and sediment PCBs for the Northwest Drainage Ditch and Former Mead Road Pond Area (including the Low-Lying Area), and Figures 2A through 2D illustrate the results, by sample depth interval.

2 STREAM MORPHOLOGY AND BANK VEGETATION

This section describes the historical wetland assessment and stream restoration design activities that have been performed for Tributary T11A and summarizes the results of the additional habitat assessment work completed in 2017.

2.1 2002 Assessment of Stream Morphology

In 2002, GE submitted to the NYSDEC the Tributary T11A Remedial Action Work Plan for the Loeffel Site Environs (Work Plan; Blasland, Bouck & Lee, Inc. 2002). The Work Plan presents a wetland assessment and stream restoration design to be installed after completion of the 2002/2003 Tributary T11A removal activities, the details of which were presented in Attachment G of the Work Plan (*Tributary T11A Stream Restoration/Enhancement Plan* [SR/EP]). A copy of Attachment G of the Work Plan is provided as Appendix B to the Sampling and Analysis Plan.

Based on the Rosgen stream classification, Tributary T11A is located within a channel colluvial valley (Type II valley formation) and is a B3 stream, which is characterized by moderate entrenchment, channel gradients of 2 to 4%, and sinuosity (stream length/straight-line distance) greater than 1.2; with some A3 attributes, which include higher entrenchment and channel incision, channel gradients of 4 to 10%, with lower sinuosity of less than 1.2, and primarily step-pool and cascading channel with natural debris dams. The bed morphology is classified as a step-pool system, meaning Tributary T11A is characterized by large cobble and boulders organized into discrete, channel-spanning accumulations that form a series of steps separating pools containing finer materials. Large woody debris (LWD) is also an important influence on the channel morphology in Tributary T11A.

The step-pool morphology is associated with steep gradient, coarse bed material with a large particle size relative to channel depth, and a small width-to-depth ratio. The Tributary T11A channel is dominated by cobble material with occasional boulders. Lesser amounts of gravels and sands are stored in irregular-spaced pools. Tributary T11A also has a limited floodplain due to its location in a steep ravine. Other observations made in 2002 include:

- Riparian Vegetation – deciduous overstory moderate to heavy
- Flow Regime – perennial with seasonal domination by both snowmelt and storm flow
- Debris – extensive to dominating, with occasional damming of active channel and one area of apparent avulsion caused by LWD
- Stream Size – bankfull 5 to 15 feet wide
- Order – first order stream
- Stream Bank Erosion Potential – low to moderate
- Channel Stability – rating stability fair for B3 stream
- Depositional Patterns – not applicable with dispositional features from flow effect of constrictions
- Meander Patterns – not applicable and not readily observed with channel dominated by large clasts and LWD
- Aggradation/Degradation Trends – stable bed with some gravels and fines in pools
- Altered Channel Features – no significant altered channel features, with some excess LWD from recent natural activity.

Based on the characterization of existing conditions in 2002, channel restoration and enhancement features were selected to maintain, replace, or enhance the morphologically and ecologically significant in-stream structures that were disturbed by remedial activities in the stream. In general, LWD were preferred over boulders for installed in-stream enhancement structures during restoration. The specific structures installed as part of 2002/2003 restoration activities are illustrated on Figure 3.

2.2 Summary of 2017 Habitat Assessment Activities

The Sampling and Analysis Plan specified field surveys to build upon historical restoration-related information presented in the 2002 SR/EP and evaluate current conditions to support future removal action design and restoration to be performed under Paragraph 47.f. The field surveys and assessment objectives performed in 2017 included three main elements:

- Enhancement Structures: Assess enhancement structures installed following the 2002/2003 remedial action, and evaluate condition, functionality, and potential use and/or design modifications to improve habitat for aquatic life and physical functioning for stream stability and obtaining dynamic equilibrium (i.e., balance of erosion and depositional processes that occur as the natural stream channel evolves).
- Key Stream Characteristics and Characterization of Substrate: Assess stream condition using the United States Department of Agriculture's (USDA's) Stream Visual Assessment Protocol (SVAP) to evaluate existing stream health and function in support of aquatic life use. Collect semi-quantitative and qualitative notes on key elements and function to support restoration design. Additionally, assess stream morphology using updated cross section, habitat-specific pebble count data, and streambed grain size evaluation to update existing geomorphic and hydraulic modeling information to support restoration design.
- Riparian Habitat Assessment (Tree and Vegetation): Assess riparian habitat (including trees, shrubs, herbaceous communities, wetlands) to inventory existing tree species, characterize dominant vegetative species, and delineate wetlands and floodplain habitats that may be disturbed during future removal activities. The inventory of 2017 conditions will be used to help design future habitat restoration activities within the riparian zone.

The 2017 aquatic and riparian habitat assessment was performed in general accordance with the scope proposed in the Sampling and Analysis Plan; however, some minor variations were incorporated based on field observations and collaborative conversations with the NYSDEC and EPA throughout the investigation process. These variations are described below:

- The initial aquatic field survey approach included the use of three aquatic reaches to characterize stream health and function with SVAP methods and to evaluate existing substrates through reach-wide pebble counts. However, during the October 30, 2017 site walk with representatives from GE, the NYSDEC, and Louis-Berger (on behalf of EPA), observations were made of potentially larger in-channel substrates and habitat conditions in the lower portion of Tributary T11A. Based on those observations, a separate aquatic reach was added. Similarly, in a follow-up e-mail from the NYSDEC dated October 31, 2017, one additional aquatic reach was requested in the upper portion of Tributary T11A. This additional area is a transitional area between the Former Mead Road Pond Area restoration and the beginning of Tributary T11A. As such, in total, five aquatic reaches in Tributary

T11A were evaluated in 2017 using SVAP methods, and substrates in the five reaches were characterized with reach-wide pebble counts. These five reaches were established from downstream to upstream and are illustrated on Figures 3 and 4. Note, the reaches were established specifically for use in performing pebble counts and SVAP characterization; the habitat assessment and wetland determinations / delineations were completed for the entire length of the Former Mead Road Pond Area, Northwest Drainage Ditch, and Tributary T11A system.

- During the October 2017 site walk, eight cross sections in Tributary T11A were established to perform a detailed survey. In a follow up e-mail from the NYSDEC, one additional cross section was requested for the upper portion of Tributary T11A, within the same transitional area described above. As such, in total, nine cross sections were evaluated in 2017. These cross sections are shown on Figures 3 and 4.
- The Sampling and Analysis Plan originally specified the sampling of terrestrial hydrological conditions via completion of the United States Army Corps of Engineers (USACE) Northcentral and Northeast Wetland Determination Data Form Hydrology Section (USACE 2011) at a minimum of five locations along Tributary T11A and one location along the Northwest Drainage Ditch. During the October 2017 site walk, it was observed that there was little data to be acquired from the hydrology of upland areas surrounding the stream channel. Therefore, hydrological characteristics were only collected in areas meeting the characteristics of wetlands, which included two locations in Tributary T11A and five locations along the Former Mead Road Pond Area and Northwest Drainage Ditch.

  Additionally, based on conversations with EPA in spring 2018, additional site work was performed in April 2018 to further clarify the wetland determinations and delineations and develop additional documentation to support those determinations/delineations. Final delineation of the wetlands was performed using methods of the USACE 1987 Wetland Delineation Manual (USACE 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0 (USACE 2011). In April 2018 two USACE Northcentral and Northeast Wetland Determination Data Forms (USACE 2011) were completed for every wetland area (i.e., one for the wetland and one for the adjacent upland). Wetland boundary coordinates and elevation were recorded with a Trimble Unit of sub-meter accuracy; where appropriate and necessary datums recorded on the field forms (Appendix D1) were converted to the site coordinate system of North American Vertical Datum of 1988. Additional details regarding the final wetland delineation/determination are included in Section 2.3.2.1. Wetland area polygons are shown on Figures 3 and 4.
- Characterization of the vegetative community was originally planned to be taken at a minimum of five locations along Tributary T11A and one location along the Northwest Drainage Ditch via completion of the USACE Wetland Determination Data Form Vegetation Section. Instead, these data were collected where significant changes in the vegetation community occurred and in areas of spatial or ecological importance. After the site walk in October 2017, additional data collection points were planned, and the vegetative community was characterized at a total of 10 locations along Tributary T11A and five locations along the Former Mead Road Pond Area and Northwest Drainage Ditch. The locations of the vegetation plots (Veg Plots) are shown on Figures 3 and 4.

2.3 Aquatic and Riparian Habitat Assessment Results

An evaluation of aquatic and riparian habitat in Tributary T11A and the Northwest Drainage Ditch was performed in late October and early November 2017. As mentioned above, five representative aquatic reaches were established in Tributary T11A from downstream to upstream (i.e., identified as Reaches 1 to 5), as illustrated on Figures 3 and 4. The following section summarizes the results from the aquatic and riparian habitat assessment surveys.

2.3.1 Survey of Features Installed Following 2002/2003 Remedial Action

Stream enhancement features were designed as part of the 2002/2003 remedial action to stabilize stream grade, maintain channel geomorphology during storm events, and provide increased ecological function to support aquatic life. Nine enhancement features were incorporated into the 2002 restoration design, and included rock bendway weirs, log/rock check dams, rock vortex weirs, step-pool complexes, and riffle complexes.

The functionality of each enhancement feature was qualitatively assessed to evaluate the impact the structure has had in the stream process upstream and downstream of the respective structure. Each feature was surveyed for elevation at the beginning, middle (if applicable), and end of each structure. The location of the features is shown on Figure 3, and photographs of the enhancement features are provided in Appendix B1. Surveyed data for the enhancement features in the form of cross sections and longitudinal profiles are provided in Appendix C. Table 1 (below) details the current condition and function of the man-made enhancement structures within Tributary T11A.

Table 1. Tributary T11A Stream Enhancement Features' Condition and Current Function

Feature	Type	Condition	Current Function	Notes
ES-1	Rock Bendway Weir	Partially Intact	Low-Moderate	Two of the three weirs are partially intact. Downstream weir is blown out. Bed has naturally braided with larger materials. Redesign would require more frequent weirs or deflector structures (e.g., root wads, rock piles) to move flow off bank.
ES-2	Rock Vortex Weir	Mostly Intact	Moderate-High	Channel flow centered. Minimal disruption to downstream/upstream banks. Redesign to higher potential storm event/bankfull elevation.
ES-3	Rock Check Dam	Intact	Moderate-High	Some downstream erosion on left bank. Needs a transition area and toe protection to redirect flows towards that way in confined area.
ES-4	Log Check Dam	Intact	Low-Moderate	Flow undermined above structure. Nine-inch drop to pool elevation, possible fish barrier. Some upstream erosion on right bank. Redesign would require consideration for fish passage.
ES-5	Step-Pool Complex	Mostly Intact	Moderate-High	Most steps intact (4 of 5 in good condition), small pools evident, grade stable.

Feature	Type	Condition	Current Function	Notes
ES-6	Rock Check Dam	Partially intact	Low	Most stones are displaced, only bankfull footings remain. Flow is not moving through structure as designed. Some downstream bank erosion evidence from structures collapse. Redesign may require larger footer stones to anchor structure within the channel.
ES-7	Log Check Dam	Intact	Low	Seven-inch gap from weir notch to pool elevation. Potential fish barrier at base flow. Redesign would require consideration for fish passage.
ES-8	Rock Check Dam	Mostly Intact	Moderate	Large boulders have shifted from bankfull and center channel. Flow is still moving roughly through center of structure. Upstream right bank disturbance with increased erosion. Remove structure or place transitional bendway weirs on upstream bend.
ES-9	Riffle Complex	Partially Intact	Low-Moderate	Upstream natural log weir has disrupted riffle in upper portion. Created deposition and scour pool and shifted flow and grade. Only one third of complex remains stable.

Based on the 2017 conditional and functional assessment of the enhancement features, the following general conclusions can be drawn to support the forthcoming restoration design:

- Log check dams are currently acting as potential fish barriers and preventing migration. Elevation differences between the log height for stream flow and the stream bed surfaces below the structures were approximately 9 to 11 inches. This elevation is approximately twice as high as the 2002/2003 as-built specifications of 4 inches between log height and stream bed elevation. Their use within the future restoration, if any, requires consideration of structural design modifications to maintain fish movement and pool development.
- The placement of rock vortex weirs is important for the long-term stability and function of Tributary T11A. The original design objective of the rock vortex weir was to converge flow into the center of the channel and develop a scour pool below the structure. These design objectives have been fairly met from the past restoration. Additional consideration to structure design at bankfull or higher conditions for stability should be evaluated for future implementation within Tributary T11A. Use of rock vortex weirs in the current restoration design may be enhanced to allow additional fish passage at base-flow or low-flow conditions, and increased bank and bank toe protection during high-flow events through different design configurations (e.g., J-Hook vane). Potential usage and placement in Tributary T11A will be based on areas that may require grade control, are transitional areas with slope changes, require bank stability, or are within an outer meander of the stream.
- Observations of bank erosion and channel down-cutting identifies the need for transition bank protection and modifications on design of enhancement structures to meet functionality for grade control and energy dissipation.

The results of the assessment will be used to help design the forthcoming restoration.

2.3.2 Documentation of Key Stream Characteristics

Assessment of key stream characteristics is used to describe existing conditions and support the physical and functional objectives of the restoration design. This includes the local hydrology to identify the interaction of the floodplain with the stream channel, presence of wetland habitats, existing in-stream substrates and habitat features, and general hydraulics and geomorphology conditions. As noted above, the Hydrology Section of the USACE Wetland Determination Data Form was completed only in areas meeting the characteristics of wetlands, notably two locations in Tributary T11A and three locations along the Northwest Drainage Ditch. In addition, five aquatic reaches in Tributary T11A were evaluated using SVAP methods. A total of nine cross sections were also evaluated.

2.3.2.1 Local Hydrology

The Hydrology Section of the USACE Wetland Determination Data Form was taken in eight locations (two in 2017 [C and E] and six in 2018) along Tributary T11A where wetlands were identified in the corridor.[3] Data were collected in thirteen locations (five in 2017 and eight in 2018) along the Former Mead Road Pond Area and Northwest Drainage Ditch. Additionally, the stream wetted width in this area was obtained. Wetland Determination Data Forms are included in Appendix D1.

The final April 2018 delineation/determination survey was completed outside of the growing season, and therefore vegetation cover data is limited. Existing data from the vegetation survey completed in October 2017 was used in instances where Veg Plots were located within the wetland or adjacent upland (i.e. for April 2018 A-Up, the information on the October 2017 form for Veg Plot C was used, April 2018 B-Wet used the information on the October 2017 form for Veg Plot E, April 2018 C-Wet used the information on the October 2017 form for Veg Plot L, and April 2018 J-Up used the information on the October 2017 form for Veg Plot D). In the remaining data points, plants within the sampling plots were identified in their dormant state and listed with their wetland indicator status. The number of wetland plants, as defined by their USACE Regional Wetland Indicator status versus the number of upland plants was used to determine if the area met qualifications for hydrophytic vegetation (USACE 1987, 2011). Specifically, the status defined in the USACE Regional Wetland Indicator includes the following designations, which are indicated on the forms included in Appendix D1 (USACE 1987):

- Facultative Wetland plants [FACW] grow in wetlands at least 66.7% of the time;
- Obligate Wetland plants [OBL] grow in a wetland greater than 99% of the time;
- Facultative Upland plants [FACU] grow in wetlands less than 33.3% of the time; and
- Upland plants [UPL] grow in wetlands less than 1% of the time.

Where appropriate, the soils were determined using the Munsell Soil Color Book and Field Indicators of Hydric Soils for the Northcentral and Northeast Region in the USACE Regional Supplement Manual (USACE 2011). As noted on the Wetland Determination Data Forms, shovel refusal prevented soils from being surveyed down to the established 18-inch depth in several locations (i.e. A-Wet at 13 inches, B-Wet

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[3] The vegetation section of the USACE Wetland Determination Data Form was completed for an additional eight areas along the Tributary T11A corridor, as discussed in Section 2.3.4.

at 6 inches, C-Wet at 8 inches, H1-Up at 6 inches, and H2-Wet at 12 inches). These instances are noted on Page 3 of the respective Wetland Determination Data Forms.

The total wetland area observed in Tributary T11A is approximately 1,300 square feet (0.031 acre), and includes the following three areas, upstream to downstream:

- Wetland B – approximately 0.012 acres
- Wetland J – approximately 0.014 acres
- Wetland A – approximately 0.0048 acres

For the Former Mead Road Pond Area and Northwest Drainage Ditch, the total wetland area observed extended beyond our investigation area; however, an area of approximately 5,300 square feet (0.123 acre) is expected to be within the footprint of the removal action for the Northwest Drainage Ditch area to be developed in the forthcoming Removal Action Design Report. Photographs of the wetlands and adjacent uplands (with soil samples) are provided in Appendix B2.

General wetland hydrology characteristics included high water table, saturation, standing water, water-stained leaves, drainage patterns, and shallow-buttressed tree trunks. Overall, the locations along Tributary T11A and the banks of the Former Mead Road Pond Area and Northwest Drainage Ditch met the hydrological characteristics of wetlands that are fed by overland runoff and groundwater seepage to the stream basin. Saturation to the surface was observed in every location sampled. The water table depth for locations surveyed along the stream bank ranged from 14 inches below ground surface to standing water of 1 inch. The wetted width of the stream ranged from 24 to 66 inches in the Former Mead Road Pond Area and Northwest Drainage Ditch.

2.3.2.2 Qualitative Notes and SVAP Scoring

Qualitative notes of the stream conditions were acquired using SVAP assessment methodology (USDA 2009). Information obtained from these notes included conditions on substrate, significant bends in the stream corridor, drift deposits, channel substrate sizes, signs of erosion, width of the stream, bank slope, presence of sand bars/gravel bars, potential entrenchment, dominant substrate, LWD affecting stream flow, and man-made structures affecting stream flow. A separate page of notes was completed for each of the five SVAP reaches. As shown on Figure 3, the reaches were established from downstream to upstream (i.e., Reach 1 is the farthest downstream and Reach 5 is the farthest upstream).

During the qualitative SVAP assessment, a significant amount of bank erosion was observed. Generally, along stream bends, stretches approximately 5 to 20 feet long had vertically shorn banks that were often undercut by the stream by several inches. Locations and sizes of coarse woody debris were anecdotally noted along the corridor. Generally, these were fallen or downed logs along the banks of the stream. Sizes of these logs ranged from 3 to 18 inches in diameter and were generally between 5 to 15 feet long. Bank erosion was significantly less in areas where woody debris had accumulated. In some instances, the downed debris led to accumulation of sediment and smaller debris within the channel. At times, fallen logs within the stream channel created natural step-pool complexes. Photos and descriptions of stream conditions are in Appendix B3.

Conditions along Tributary T11A were quantified using the SVAP procedure of scoring, which quantifies the physical, chemical, and biological conditions of a stream, and indicates the overall function and ecological health of the waterbody. The SVAP assessment provides a preliminary assessment of stream condition, which can be used to compare to applicable regional reference stream conditions to further quantify the overall function and ecological health. The SVAP assessment conducted for Tributary T11A was completed within base-flow conditions, as specified by the protocol. SVAP categories that represent the physical conditions of the stream include Channel Condition, Hydrologic Alteration, Bank Condition, Pools, Barriers to Movement, and Riffle Embeddedness. These conditions provide insight on the structure of the stream corridor and its susceptibility to impairment from erosion, bank undercutting, and destabilization. SVAP categories that represent chemical conditions, such as Water Appearance, Nutrient Enrichment, and Manure or Human Waste, are important for understanding issues related to water clarity and plant or algae growth. Biological conditions considered by the SVAP assessment include Riparian Area Quality and Quantity, Canopy Cover, Fish Habitat Complexity, and Aquatic Invertebrate Habitat and Community categories. These conditions detail the overall ecological health of the stream and its ability to support the aquatic and surrounding terrestrial community. Given the physical nature of Tributary T11A, as a first-order stream, the existing benthic community may score slightly lower based on intermittent stream conditions and natural processes that reduce species richness and lower community indices (NYSDEC 2014); therefore, this scoring element is considered optional (USDA 2009). There is necessary overlap between these categories of stream condition, and it is expected that their state will be intertwined. The 15 categories of the tributary conditions were assessed in each of the five reaches and given scores between 1 (severely degraded) and 10 (excellent). The scores assigned to each stream condition category in all five reaches are presented in Table 2 and the completed SVAP Forms are included in Appendix D2.

Generally, overall function and ecological health conditions along Tributary T11A were observed to improve moving downstream to the confluence with the Valatie Kill. Little to no algae or signs of accelerated eutrophication were observed along the tributary, resulting in excellent ratings in the categories of Manure or Human Waste and Nutrient Enrichment, and a good rating in the category of Water Appearance. Other categories that on average achieved a good rating include Hydrologic Alteration, Bank Condition, Riparian Area Quality and Quantity, and Canopy Cover.

The lowest average score was observed in the category of Barriers to Movement. Both man-made enhancement features and fallen woody debris were observed to act as potential barriers in the stream channel that could prevent fish movement in moderate to low-flow conditions. The Aquatic Invertebrate Habitat and Community and Fish Habitat Complexity were also scored to be in relatively poor and fair conditions, indicating that establishment of proper conditions for lower trophic level organisms and habitat will need to be included in future restoration plans. Finally, the quality of Pools and Riffle Embeddedness were also scored relatively low, with an average fair rating. It is likely that improving these physical features of the stream could improve the quality of habitat for invertebrates, fish, or other aquatic organisms.

Overall, the surrounding vegetative community of the stream is in good condition, but the forthcoming Removal Action Design Report will likely consider restoration methods to improve the physically impaired portions of the stream and suitability of habitat for fish and lower trophic organisms.

2.3.2.3 Stream Cross Sections

Nine stream cross sections were measured in Tributary T11A in areas that were determined to be of spatial or ecological importance or representative of conditions along the entire length. Measurement at these cross sections included identification of the bankfull height of the stream, the relative (to bankfull) stream depth at locations along the transect of the stream, and the normal floodprone width (twice the distance between lowest point and bankfull height). Bankfull widths ranged from 8.9 to 31.7 feet, with an average of 14.7 feet. Bankfull depths ranged from 0.80 to 2.0 feet, with an average of 1.4 feet. The nine stream cross-section diagrams are in Appendix E1, and the location of each section in Tributary T11A is illustrated on Figure 3. Cross-sectional data were also collected from several of the enhancement features established in 2002/2003, including elevations of substrate within the remaining structures, as detailed in Appendix C.

2.3.2.4 2010 vs. 2017 Survey Comparison

A detailed survey of Tributary T11A and the Northwest Drainage Ditch and Former Mead Road Pond Area was completed in 2010 and was previously provided to the NYSDEC and EPA. In addition, at the request of the NYSDEC and EPA during discussions regarding the Sampling and Analysis Plan, to supplement the survey data collected in 2010, GE collected additional survey information at the same nine stream cross sections in Tributary T11A, as summarized above in Section 2.3.2.3.

As illustrated in Appendix E2, the survey information collected in 2017 at discrete points in Tributary T11A aligned well with the smoothed contours created with the 2010 survey data points. In one instance, the 2017 survey indicated a gravel bar had formed in the cross section (Cross Section 1A); this gravel bar was noted during the habitat assessment and relative information regarding such additional features will be considered, as appropriate, during the design process.

2.3.3 Tree Community Assessment

Tree surveys were performed on October 16 to 18, 2017 within areas that may be impacted by future removal activities within the riparian zone of Tributary T11A to document current conditions and aid in the restoration design. The preliminary boundary for future disturbance of Tributary T11A (i.e., the 50-year, 24-hour storm events [Arcadis 2012]) plus an approximately 10-foot wide buffer on either bank (depending on topography) was used to determine the extent of trees to be surveyed. For the purposes of the tree community assessment, Tributary T11A was divided into approximate 400-foot sections, resulting in five sections of the stream measured from upstream (0 feet) to downstream (2,000 feet), as illustrated on Figure 3.

Within this boundary, trees greater than 3-inch Diameter at Breast Height (DBH) and alive at the time of the assessment were located, identified by species, measured, and catalogued. Trees with multiple trunks that split from the base were measured and counted separately. Trees and individual trunks greater than 18-inch DBH were located by a surveyor on November 9 and 10, 2017 and included on Figure 3. For the tagged/labeled trees between 3- and 18-inch DBH, the general location of the trees was noted based on the riverbank (right or left, looking in the direction of flow) and section of the stream in which they are located (i.e., “left riverbank Section 1”). In addition, within each of these groupings the total number of each tree size was noted.

A total of 493 individual trees greater than 3-inch DBH were located during the assessment, including 540 separate trunks. Appendix F provides a table summarizing the individual trees by species and DBH. A total of 208 trees were located on the right bank (looking downstream), and 285 trees were located on the left bank. Figure 5 presents the total number of each individual tree species trunk greater than 3-inch

DBH in the Tributary T11A investigation area. The most common tree species in the investigation area is hemlock (*Tsuga canadensis),* followed by black birch (*Betula lenta*), and yellow birch (*Betula alleghenienses*). The average DBH of trees in the investigation area is 8.7 inches and the median DBH is 7.0 inches. Figure 6 presents a normal distribution of tree trunk's DBH in the Tributary T11A investigation area.

A total of 39 trees/individual trunks were identified to have a DBH greater than or equal to 18 inches. The species with the highest frequency of these larger-diameter trees were hemlock and sugar maple (*Acer saccharum*), with total counts of 11 and 10, respectively, within the investigation area. The average DBH of these 39 larger-diameter trees/individual trunks is 22.5 inches and the median DBH is 21.6 inches.

The data acquired from the tree community assessment will facilitate development of a forthcoming Removal Action Design Report. Information on tree species, densities, and the locations of larger (greater than 18-inch DBH) trunks will be evaluated and included in the design, and the information will be considered to ensure minimal disturbance to the tree community and re-establishment of the vegetation community.

2.3.4 Vegetation Assessment

A vegetation assessment was performed within representative areas of the riparian zone of Tributary T11A and the Northwest Drainage Ditch to document current species and community structure. The vegetative communities along Tributary T11A and the Northwest Drainage Ditch were characterized in areas of spatial or ecological importance, or in instances where there was a notable change in the species or cover composition. The Vegetation Section of the USACE Wetland Determination Data Forms was completed in 10 locations along Tributary T11A and five locations along the Northwest Drainage Ditch (Figures 3 and 4). In these locations, a representative plot for four separate vegetative strata (Trees, Shrubs/Sapling, Herbaceous, and Vines) was sampled and the areal percent cover of each species was recorded. Appendix G lists every species identified in the vegetation survey of Tributary T11A and the Northwest Drainage Ditch. The full list of individual species of vegetation cover can be found in the Wetland Determination Data Forms in Appendix D1.

The herbaceous vegetative community outside of the immediate stream corridor is dominated by New York fern (*Thelypteris noveboracensis)*, northern lady fern (*Athyrium filix-femina)*, and Christmas fern (*Polystichum acrostichoides)*. Wetland herbaceous vegetation was dominated by plantain sedge (*Carex plantaginea)*, fowl bluegrass (*Poa palustris)*, giant goldenrod (*Solidago gigantean*), scouring rush (*Equisetum hyemale*), and field horsetail (*Equisetum arvense)*. *Phragmites* was observed to be colonizing a wetland area in the Northwest Drainage Ditch. Photos of the vegetative community along Tributary T11A and the Northwest Drainage Ditch are in Appendix B4.

The species observed in 2017 to be present in Tributary T11A and the Northwest Drainage Ditch will be considered during development of the forthcoming Removal Action Design Report.

2.3.5 Characterization of Substrate

To better understand surface substrate size and dominant particles, pebble counts were performed in Tributary T11A. In addition, geotechnical grain size samples were collected within a representative Pool, Riffle/Plain Bed, and Step channel habitat within the length of Tributary T11A to evaluate the subsurface bed substrates. Finally, to identify existing physical and ecological conditions, LWD in Tributary T11A was identified and characterized.

2.3.5.1 Pebble Counts

Pebble counts were performed in the same five reaches in Tributary T11A used for the SVAP evaluation (Figures 3 and 4) and spanned the length of the stream approximately 20 to 30 times the channel width at bankfull. In each pebble count reach, 10 transects across the reach were measured and 10 pebbles in each transect were collected at equidistant locations along the streams perpendicular width. The width of the stream at each transect and the habitat type (i.e., Pool, Riffle, Step) were recorded and are summarized in Table 3.

The width of each collected particle was measured in millimeters (mm) using a gravelometer and placed into the appropriate substrate category. Table 4 provides the percent of particles from each pebble count reach in each substrate/size category, including average, 95% confidence interval, and median sizes. Average particle size by reach ranged from 77 mm in Reach 5 (farthest upstream) to 127 mm in Reach 1 (farthest downstream). The median (D_{50}) particle size per reach ranged from 36 mm in Reach 5 to 70 mm in Reach 3.

The 50 transects across five reaches covered a total of 16 Pools, 16 Riffles, and 18 Steps during the pebble count. A summary of the particle sizes and their normalized distribution in each habitat type is illustrated on Figure 7. The average particle size for Pools was 63 ± 17 mm (95% confidence interval), with a D_{50} of 16 mm. The average particle size for Riffles was 61 ± 10 mm, with a D_{50} of 38 mm. The average size of Steps was 147 ± 110 mm, with a D_{50} of 38 mm. Generally, the trend was for a greater number of small particles (Small Cobbles or smaller) in Pools, the widest distribution of sizes in Riffles, and the largest particles (Large Cobbles to Boulders) in Steps.

The dominant substrates within Tributary T11A, defined as encompassing at least 50% of the observed surface substrate, include finer depositional materials of Very Coarse Sand (with smaller particles), transient materials of Fine Gravel, and more stable particles consisting of Very Coarse Gravel and Small Boulder. Figure 8 illustrates the particle size distribution by dominant substrate category. The D_{50} observed throughout Tributary T11A is 42 mm (Very Coarse Gravel), with an average particle size of 93 ± 11 mm (95% confidence interval).

2.3.5.2 Geotechnical Grain Size Results

To better understand the subsurface material composition in Tributary T11A, samples of subsurface channel substrates were collected at three representative habitat locations within Tributary T11A and analyzed for grain size using ASTM International Method D422 by Pace Analytical. The bulk grain size samples were collected up to 1 foot below the surface substrates. One of the samples, collected in a Step habitat, approximately 175 feet upstream from the outlet to the Valatie Kill, indicated dominant substrates as coarse to fine gravels (71%), with a D_{50} of approximately 16 mm. The sample collected in a Pool habitat approximately halfway (1,200 feet) down Tributary T11A indicated dominant substrates as coarse to fine gravels (79%), with a D_{50} of approximately 19 mm. The third sample, collected in a Riffle (Plain Bed) habitat approximately 300 feet downstream of the headwater of Tributary T11A, indicated dominant substrates of coarse to fine gravels (54%), with coarse to fine sands (44%) nearly as dominant. The D_{50}

of approximately 5.7 mm was significantly lower than the D_{50} sizes observed within the Step and Pool habitats.

Overall, the subsurface channel substrates in Tributary T11A primarily consist of coarse to fine gravels, with lesser percentages of sands and fines found in Step and Pool habitats. Riffle (Plain Bed) habitat indicates a larger percentage of sands and fines found within the subsurface channel substrates.

2.3.5.3 Large Woody Debris Assessment

In addition to the cataloguing of pebbles and inorganic substrate, the number of organic materials, including LWD, Coarse Particulate Organics, and Fine Particulate Organics, was recorded along each of the 10 transects in each of the five Pebble Count reaches. LWD was also qualitatively noted during the SVAP procedure outlined in Section 2.3.2.2. Figure 9 illustrates the frequency of these organic materials found during pebble counts in separate reaches and habitats. Pools had the lowest amount of LWD and Steps had the greatest number. Riffles had the greatest number of Coarse Particulate Organics and Pools had the least.

Considering the substrate together with organics and LWD provides insight about depositional patterns along Tributary T11A. The presence of LWD was likely due to the spatial arrangement of the stream, as opposed to habitat. LWD, such as logs, were observed in greater numbers along elevated shelves and floodplains in the stream corridor, as expected in areas where items could settle during times of high flow. Fewer instances of bank undercutting and erosion were observed where LWD had deposited, indicating these debris provide the benefit of physical stabilization.

Deposition of Coarse Particulate Organics appeared to be dominated by the type of habitat. As shown on Figure 9, the different sizes of organic materials were most widely represented in Riffle habitat, as opposed to Pool or Step. This heterogeneous deposition of inorganic substrate allowed a greater number of Coarse Particulate Organics items, such as leaves and smaller sticks, to be captured in these areas. The forthcoming Removal Action Design Report will consider installation of transitional Riffle areas during restoration efforts to promote similar organic deposition, an important feature in providing suitable fish and invertebrate habitat.

Deposition of Fine Particulate Organics was influenced both spatially across the five reaches and by habitat. There was a greater amount of Fine Particulate Organics in Pools than in Riffles and Steps, and Fine Particulate Organics were only observed in the lowest two reaches (Reaches 1 and 2). Pools are quiescent, which naturally allow for deposition of materials. Step-pool habitat was better defined in the lower two reaches, compared with upstream. In areas of high stream gradient, this resulted in the formation of deeper pools and the collection of Fine Particulate Organics transported downstream during high-flow events.

2.4 Summary

Enhancement structures were assessed for existing function and condition. Overall, the conditions of the structures were found to be mostly intact. Function was highest for the rock vortex weir (ES-2), rock check dams (ES-3 and ES-8), and step-pool complex (ES-5). The rock bendway weir (ES-1), rock check dam (ES-6), and riffle complex (ES-9) were found to be partially intact with low to moderate functioning. Log check dams were intact, but due to large drops between water surfaces that have created barriers to prevent fish migration, were observed to be the least functional.

Key stream characteristics were detailed through evaluation of local hydrology and assessment of stream conditions using the SVAP framework. Within the floodplain of Tributary T11A, three wetlands were identified. Wetland hydrology characteristics were also met at each of the locations assessed in the Northwest Drainage Ditch. Average SVAP ratings for each reach assessed in Tributary T11A ranged from fair to good, with conditions improving from upstream to downstream. Overall, the Tributary T11A stream condition was assessed as good. The largest differences observed between assessment reaches included scoring for presence of Pools, Fish Habitat Complexity, Aquatic Invertebrate Habitat, and Aquatic Invertebrate Community.

Pebble counts performed in Tributary T11A indicated a greater number of small particles (Small Cobbles or smaller) in Pools, the widest distribution of sizes in Riffles, and the largest particles (Large Cobbles to Boulders) in Steps. The D_{50} and average particle sizes found throughout Tributary T11A are 42 mm (Very Coarse Gravel) and 93 mm (Medium Cobble), respectively. LWD and coarse and fine particulate organic matter were most widely represented in Riffle (plain bed) habitats, as opposed to Pools and Steps.

Cross-section data were collected at representative areas and at existing enhancement structures within Tributary T11A. Channel characteristics indicate areas with substrate aggradation (i.e., deposition) that have formed gravel bars. In some cases, this has caused braided stream flow or has pushed stream flow to one side of the channel.

Habitat assessments to document tree and vegetative communities within the Tributary T11A stream corridor indicated a forested canopy consisting of more than 20 tree species with hemlock, black birch, and yellow birch being the most common. The most common larger trees (greater than 18-inch DBH) were hemlock and sugar maple. The Tributary T11A vegetative communities were dominated by canopies of hemlock and sugar maple, shrub layers consisting of American beech (*Fagus grandifolia*), green ash, and sugar maple, and herbaceous layers consisting of New York fern and Christmas fern. The Northwest Drainage Ditch vegetative communities were dominated by canopies of black birch, with shrub layers of black willow (*Salix nigra*), black birch, and paper birch (*Betula papyrifera*), herbaceous layers consisting of giant goldenrod and lurid sedge (*Carex lurida*), and woody vine layer consisting of nightshade (*Solanaceae*).

3 SUMMARY OF 2017 AND 2018 SOIL/SEDIMENT SAMPLING ACTIVITIES

Additional soil and sediment sampling was performed between November 6 and 16, 2017 and January 15 and 17 and March 27 and 28, 2018. The objective of the sampling was to further delineate sediment and bank soil removal limits for Tributary T11A, and to further assess PCBs present in upstream areas (e.g., the Northwest Drainage Ditch and Former Mead Road Pond Area), such that these areas do not serve as a future source of PCBs to Tributary T11A. The sampling approach focused on the following objectives: 1) define horizontal boundary limits, 2) confirm extent of soil/sediment with PCBs greater than 50 ppm, 3) define vertical extent, and 4) refine excavation limits in certain areas to minimize habitat disturbance. The sample locations were selected to delineate PCB levels to 1 ppm and minimize the need for confirmation sampling during construction implementation.

Sampling was performed in general accordance with the approved Sampling and Analysis Plan. However, based on field observations during collection and processing of the first 28 samples collected in November 2017, a field test was performed to assess the possibility of compaction in the shallow overburden soils of the downstream floodplain area of Tributary T11A. Representatives from Arcadis and Louis-Berger (on behalf of EPA) performed a series of borings in different soil/sediment environments within the stream system and floodplain of Tributary T11A to try to correlate the thickness of the recovered material with the measured penetration depth.

Although the field tests yielded various results, it was observed at some locations that the upper foot of overburden soils (generally consisting of an organic-rich silty sand with gravel) on the floodplain of Tributary T11A near the confluence Valatie Kill (where the grade flattens out) compressed up to 50% at some locations. Unlike the loose shallow overburden, the same amount of compaction was not observed in the underlying overburden clayey silt and gravels and the sand and gravel sediment exposed at the surface within the streambed. However, although negligible compaction appeared to be occurring in these materials, full recoveries where still not being achieved, likely due to a large piece of gravel or chunk of cobble lodging in the sampling device, such that the soils/sediment were driven aside rather than being collected inside the sample liner.

Based on the results of the field test, Arcadis and Louis-Berger agreed in the field that the best way to obtain representative samples moving forward would be to complete the future borings using a “two-barrel” advancement approach, as described below:

Sample Collection

1. At overburden boring locations (soil matrix locations), the Macro-Core® sampling device was advanced 12 inches into the overburden soil. The sampling barrel was then retrieved from the borehole. The liner was then removed from the Macro-Core® and labeled 0 to 12 inches and was considered representative of the first two sampling intervals (0- to 6-inch and 6-to 12-inch).
2. The open borehole was then gauged to ensure no soil fell out of the sampling barrel during retrieval and no cave-in had occurred.
3. A Macro-Core® sampling device containing a new liner was then placed in the existing open borehole and the barrel was driven until refusal was encountered. The collection crew then removed the barrel

and the second liner was labeled for the 12- to X-inch interval. Depth of increased density other than refusal was noted if encountered.

Sample Processing

1. First liner: If no significant stratigraphy or density changes were observed in the first liner (0 to 12 inches), the recovered soil was split evenly to represent the 0- to 6-inch and 6-to 12-inch samples for analysis, regardless of recovery. This approach takes the compaction observed during field pilot test into consideration. If a significant density change was noted during sample collection, the processing crew took this into consideration when processing the samples.
2. Second liner: Because it appeared during the field test that minimal compaction was occurring below 12 inches, and rather it appeared that the underlying stratigraphy of gravel/cobbles and denser soils were packing the cutting shoe (and not allowing deeper soils to enter the Macro-Core® barrel), the sampling intervals from the second liner below 12 inches was processed without taking compaction into consideration. For example; if 6 inches of material was recovered in the sample liner, even though the Macro-Core® barrel was advanced from 12 inches to 30-inch (refusal), only one sample would be collected (composite from the entire recovery) and identified as 12 to 18 inches.

Compaction and the “two-barrel” advancement process was not taken into consideration/completed for sediment samples located in the stream bed. This is because during the field test, negligible compaction of the stream bed material was observed at these locations.

A list of the first 28 locations where samples were collected and processed using the initial sampling approach as specified in the Sampling and Analysis Plan is provided in Table 5. The remaining samples collected in November 2017 and those collected in January and March 2018 were collected and processed with the method outlined above.

As noted in the Sampling and Analysis Plan, for the purposes of this sampling event, sediment (SED) samples identify samples located below the apparent typical water level, and soil (SL) samples identify samples located above the apparent typical water level. The typical water level elevation was visually estimated in the field by the sampling crew at the time of sampling.

Sample Analysis

All samples were analyzed by SGS Accutest in Dayton, New Jersey. The number of sediment and soil samples collected and analyzed are summarized in Table 6. All samples not held as “archive” were analyzed for PCB Aroclors by EPA Method 8082A and a subset of approximately 10% of the November 2017 samples was analyzed for Total Organic Carbon (TOC) by the Lloyd Kahn method.

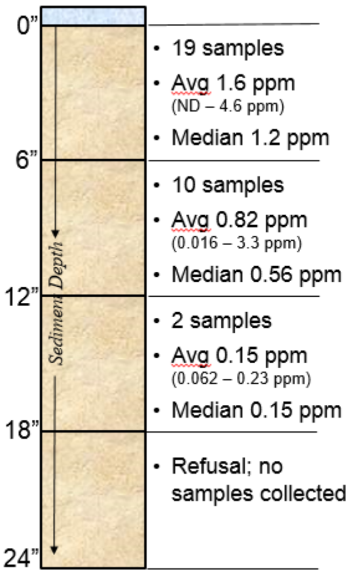
3.1 Tributary T11A

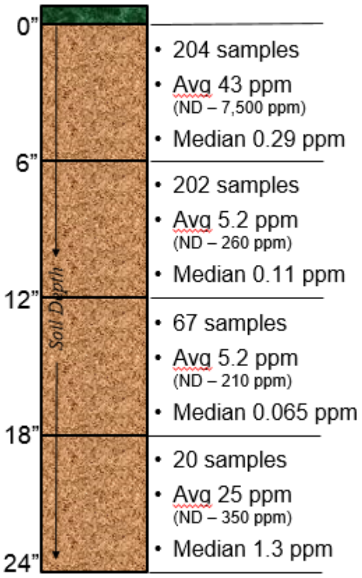
A total of 223 locations were targeted for sample collection in Tributary T11A (see Figure 1), including 32 judgmental locations identified in the field during sampling activities. The judgmental locations were selected to either be downstream from historical samples with results greater than 50 ppm (samples with “J” in the identification number [ID]) or next to large mature trees or other major ecological features observed in Tributary T11A (samples with “JT” in the ID).

The samples collected from the 0- to 6-inch and 6- to 12-inch depth intervals were submitted for PCB Aroclor analysis, with analysis of a subset of the samples for TOC. For the deeper depth intervals, some samples were archived based on the designation in the Sampling and Analysis Plan. The number of samples archived or submitted for each analysis is summarized in Table 6. The PCB and TOC laboratory results provided in Table 7, and the PCB concentrations are illustrated by depth interval on Figures 1A through 1D. Table 8 summarizes the PCB results by location and depth and provides the average, median, and range for each sample area. Data and statistics presented in the remainder of this section are rounded to two significant figures.

PCB concentrations for the 524 Tributary T11A samples collected and analyzed in 2017 and 2018 range from ND to 7,500 ppm, with an average of 21 ppm (median of 0.22 ppm). A total of 54 samples (10%) were ND, and an additional 344 samples (66%) exhibited detectable PCB concentrations but less than 1.0 ppm. A summary of sample results (i.e., average, median, maximum, percent ND, and percent detected less than 1.0 ppm), by depth, for Tributary T11A is provided in Table 8.

For the 2017 and 2018 493 soil samples collected from Tributary T11A and analyzed for PCBs, PCB concentrations range from ND to 7,500 ppm, with an average of 22 ppm (median of 0.20 ppm), and the PCB concentrations for the 31 sediment samples range from ND to 4.6 ppm, with an average of 1.3 ppm (median of 0.76 ppm). A summary of sample results (i.e., average, median, and range), by depth, is provided on the below figures – sediment on the left, soil on the right.





The results indicate that PCB concentrations in Tributary T11A were predominantly less than 1.0 ppm, with 76% of the samples less than 1.0 ppm. However, note that the intent of the 2017 and 2018 sampling programs was meant to delineate the area with PCB impacts, so it is expected that most results would be less than 1.0 ppm.

As noted above, a subset of approximately 10% of the samples collected in November 2017 were analyzed for TOC. Of the 33 samples analyzed for TOC, the range in results is 790 ppm to 75,000 ppm, with an average of 19,000 ppm (median of 13,000 ppm).

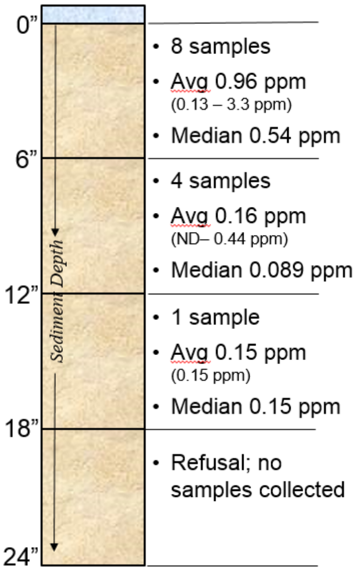
3.2 Northwest Drainage Ditch and Former Mead Road Pond Area

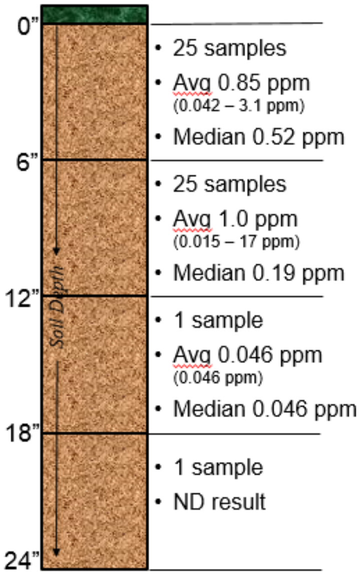
The November 2017 and January and March 2018 sampling in the Northwest Drainage Ditch and Former Mead Road Pond Area included the collection of additional samples at 33 locations, including six judgmental samples (samples with “J” in the ID) located during sampling activities in depositional areas in the Northwest Drainage Ditch and Former Mead Road Pond Area (Figure 2).

The samples collected from the 0- to 6-inch and 6- to 12-inch depth intervals were submitted for PCB Aroclor analysis, with analysis of a subset of the samples for TOC. For the deeper depth intervals, some samples were archived based on the designation in the Sampling and Analysis Plan. The number of samples archived or submitted for each analysis is summarized in Table 6. The PCB and TOC laboratory results are provided in Table 7, and the PCB concentrations are illustrated by depth interval on Figures 2A through 2C. Table 8 summarizes the PCB results by location and depth and provides the average, median, and range for each sample area. Data and statistics presented in the remainder of this section are rounded to two significant figures.

PCB concentrations for the 65 Northwest Drainage Ditch and Former Mead Road Pond Area samples collected and analyzed in 2017 and 2018 range from ND to 17 ppm, with an average of 0.84 ppm (median of 0.23 ppm). A total of three samples (5%) were ND, and an additional 51 samples (78%) were detected at concentrations above ND but less than 1.0 ppm. A summary of sample results (i.e., average, median, maximum, percent ND, and percent detected less than 1.0 ppm), by depth, for the Northwest Drainage Ditch and Former Mead Road Pond Area is provided in Table 8.

For the 2017 and 2018 52 soil samples collected from the Northwest Drainage Ditch and Former Mead Road Pond Area and analyzed for PCBs, PCB concentrations ranged from ND to 17 ppm, with an average of 0.89 ppm (median of 0.23 ppm), and the PCBs for the 13 sediment samples ranged from ND to 3.3 ppm, with an average of 0.65 ppm (median of 0.25 ppm). A summary of sample results (i.e., average, median, and range), by depth, is provided on the below figures – sediment on the left, soil on the right.





In general, results indicate PCB concentrations in the Northwest Drainage Ditch and Former Mead Road Pond Area were predominantly less than 1.0 ppm, with 83% of the samples less than 1.0 ppm. However, note that the intent of the 2017 and 2018 sampling programs was meant to delineate the area with PCB impacts, so it is expected that most results would be less than 1.0 ppm.

As noted above, a subset of approximately 10% of the samples collected in November 2017 were analyzed for TOC. Of the nine samples analyzed for TOC, the range in results is 1,640 ppm to 59,200 ppm, with an average of 36,800 ppm (median of 39,700 ppm).

4 SUMMARY OF SOIL/SEDIMENT SAMPLING ACTIVITIES SINC 2002/2003 REMEDIAL ACTION

This section provides a compiled summary of the post-remediation sampling activities discussed in Section 2 and the recent sampling activities summarized in Section 3 for Tributary T11A and the Northwest Drainage Ditch and Former Mead Road Pond Area.

4.1 Tributary T11A

As discussed in Section 2, 58 sediment samples and 256 soil samples were collected between 2009 and 2014 (i.e., after the 2002/2003 remediation). The sediment PCBs ranged from 0.19 to 23 ppm (average of 4.7 ppm; median of 3.2 ppm), and soil PCBs ranged from ND to 1,300 ppm (average of 29 ppm; median of 2.3 ppm). Similarly, as summarized in Section 3, 31 sediment samples and 494 soil samples were collected in 2017 and 2018. The sediment PCBs ranged from ND to 4.6 ppm (average of 1.3 ppm; median of 0.76 ppm), and soil PCBs ranged from ND to 7,500 ppm (average of 22 ppm; median of 0.20 ppm). In comparing the dataset of the 2009 to 2014 samples with the dataset of the 2017 and 2018 samples, the average and median for the more recent soil and sediment samples are slightly lower, in part because the 2017 and 2018 samples were meant to delineate the area with PCB impacts.

Of the 244 samples analyzed for TOC prior to 2017, the range in results is 660 ppm to 270,000 ppm, with an average of 30,600 ppm (median of 20,000 ppm). As noted above in Section 3, the TOC results for the 33 2017 samples are generally similar to the concentrations recorded during prior sampling activities, but with a slightly lower average and median. Specifically, in 2017 results ranged from 790 ppm to 74,800 ppm, with an average of 18,500 ppm (median of 12,500 ppm).

4.2 Northwest Drainage Ditch and Former Mead Road Pond Area

As discussed in Section 2, 61 samples were collected between 2009 and 2013 (i.e., after the IRM was completed). The PCBs ranged from ND to 18.1 ppm, with an average of 1.7 ppm and a median of 0.40 ppm. Similarly, as summarized in Section 3, 13 sediment samples and 52 soil samples were collected in 2017 and 2018. The sediment PCBs ranged from ND to 3.3 ppm (average of 0.65 ppm; median of 0.25 ppm), and soil PCBs ranged from ND to 17 ppm (average of 0.89 ppm; median of 0.23 ppm). In comparing the dataset of the 2009 to 2013 samples with the dataset of the 2017 and 2018 samples, the average and median for the more recent soil and sediment samples are slightly lower, in part because the 2017 and 2018 samples were meant to delineate the area with PCB impacts.

Of the 41 samples analyzed for TOC prior to 2017, the range in results is 2,000 ppm to 98,300 ppm, with an average of 34,500 ppm (median of 27,300 ppm). As noted above in Section 3, the TOC results for the nine 2017 samples are generally similar to the concentrations recorded during prior sampling activities, but with a slightly higher average and median. Specifically, in 2017 results ranged from 1,640 ppm to 59,200 ppm, with an average of 36,800 ppm (median of 39,700 ppm).

5 REPORTING AND SCHEDULE

This Data Summary Report summarize the results of the habitat assessment and sample collection activities performed historically and recently in Tributary T11A and the Northwest Drainage Ditch and Former Mead Road Pond Area. GE has provided the data received from the laboratory to the EPA in monthly progress reports for the Drainageways. In addition, as preliminary results became available from the laboratory, GE prepared draft figures and tables for circulation to and discussion with EPA and other agency representatives. Finally, following submittal of this Data Summary Report, GE will provide EPA with Level 4 data summary packages for the 2017 and 2018 results and a corresponding database providing the location, medium, and analytical results for each sample collected in 2017 and 2018.

GE is currently evaluating the information presented herein and will be initiating development of a Removal Action Design Report. In accordance with the EPA-approved proposal under Paragraph 47.f (GE 2017), GE will submit the Removal Action Design Report to EPA for review and approval within 60 days of approval of this Data Summary Report.

6 REFERENCES

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TABLES

Table 2
SVAP Scores for Tributary T11A
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

SVAP Category	SVAP/Pebble Count Reach					Average
	1	2	3	4	5	
1. Channel Condition	6	7	6	6	7	6.4 (Fair)
2. Hydrologic Alteration	8	7	6	8	8	7.4 (Good)
3. Bank Condition	8	8	6	6	7	7.0 (Good)
4. Riparian Area Quantity	10	8	8	6	7	7.8 (Good)
5. Riparian Area Quality	9	7	8	8	6	7.6 (Good)
6. Canopy Cover	9	9	9	7	5	7.8 (Good)
7. Water Appearance	9	9	10	8	8	8.8 (Good)
8. Nutrient Enrichment	10	10	8	9	9	9.2 (Excellent)
9. Manure or Human Waste	10	10	10	10	10	10 (Excellent)
10. Pools	9	6	4	6	4	5.8 (Fair)
11. Barriers to Movement	6	5	3	5	4	4.6 (Poor)
12. Fish Habitat Complexity	8	7	4	6	2	5.4 (Fair)
13. Aquatic Invertebrate Habitat	8	6	5	8	2	5.8 (Fair)
14. Aquatic Invertebrate Community	8	4	6	4	2	4.8 (Poor)
15. Riffle Embeddedness	6	4	4	7	6	5.4 (Fair)
Overall Score	**8.3 (Good)**	**7.1 (Good)**	**6.5 (Fair)**	**6.9 (Fair)**	**5.8 (Fair)**	**6.9 (Good)**

Notes:
1. Stream Visual Assessment Protocol (SVAP) assessment forms for individual Tributary T11A stream reaches are provided in Appendix 4.

Ratings for each score range:
1 to 2.9 = Severely Degraded
3 to 4.9 = Poor
5 to 6.9 = Fair
7 to 8.9 = Good
9 to 10 = Excellent

Table 3
Stream Width and Habitat Type for Pebble Count Reach
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Reach Features		SVAP/Pebble Count Reach				
		1	2	3	4	5
Stream Transect Width (feet)[1]		7.5 - 11 (8.3)	6-12 (8.2)	3.5 - 10.5 (6.1)	4.5 - 12 (7.5)	3 - 6 (5.1)
Stream Reach Length (feet)[2]		365	345	288	245	105
Number of Habitat Types Represented[3]	Pool	4	3	3	1	5
	Riffle	2	3	5	6	0
	Step	4	4	2	3	5

Notes:
1. Active stream width is indicated by minimum and maximum, with average width provided in parentheses.
2. Stream reach length measured in the field along thalweg of channel using a flexible tape measure.
3. Within each reach, 10 transects were evaluated by representative habitat types (Pools, Riffles, and Steps).
SVAP = stream visual assessment protocol

Table 4
Percent Particle Size for Each Pebble Count Reach
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Substrate Category	Particle Size (mm)	SVAP/Pebble Count Reach (%)				
		1	2	3	4	5
V. Coarse Sand	1 to 2	10	10	13	8	9
V. Fine Gravel	2 to 4	1		3	2	4
Fine Gravel	4 to 6	7	10	5	6	2
Fine Gravel	6 to 8	8	7	9	7	4
Medium Gravel	8 to 11	2	3	2	4	5
Medium Gravel	11 to 16	6	5	1	1	10
Coarse Gravel	16 to 22	1	4	5	4	6
Coarse Gravel	22 to 32	7	2	4	9	8
V. Coarse Gravel	32 to 45	7	9	4	7	9
V. Coarse Gravel	45 to 64	3	4	3	5	9
Small Cobble	64 to 90	5	13	11	4	11
Medium Cobble	90 to 128	9	14	7	13	5
Large Cobble	128 to 180	6	9	16	14	7
V. Large Cobble	180 to 256	8	5	9	6	4
Small Boulder	256 to 362	14	5	3	8	4
Small Boulder	362 to 512	1		3	1	2
Medium Boulder	512 to 1024	5		2	1	1
Large Boulder	1024 to 2048					
V. Large Boulder	2048 to 4096					
Average Size (mm)		**127**	**74**	**100**	**90**	**77**
95% Confidence Interval (mm)		**±31**	**±16**	**±25**	**±20**	**±24**
		(96 – 158)	**(58 – 90)**	**(75 – 125)**	**(70 – 110)**	**(53 – 101)**
D50 (mm)		**52**	**43**	**71**	**48**	**36**
		(V. Coarse Gravel)	**(V. Coarse Gravel)**	**(Small Cobble)**	**(V. Coarse Gravel)**	**(V. Coarse Gravel)**

Notes:
SVAP = stream visual assessment protocol
D50 = median particle size
mm = millimeters
V = very
% = percent

Table 5
List of Samples Collected November 2017 Using Initial Sampling Method
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Figure ID	Matrix	Sample Interval (inches)			
			0 - 6	6 - 12	12 - 18	18 - 22
T11A17-SL-1	1	Soil	X	Refusal	Refusal	Refusal
T11A17-SL-2	2	Soil	X	X	X	Refusal
T11A17-SL-3	3	Soil	X	X	X	Refusal
T11A17-SL-4	4	Soil	X	X	Refusal	Refusal
T11A17-SL-5	5	Soil	X	X	X	Refusal
T11A17-SL-6	6	Soil	X	X	X	Refusal
T11A17-SL-7	7	Soil	X	X	X	Refusal
T11A17-SL-8	8	Soil	X	X	X	Refusal
T11A17-SL-9	9	Soil	X	X	Refusal	Refusal
T11A17-SL-10	10	Soil	X	X	Refusal	Refusal
T11A17-SL-11	11	Soil	X	X	Refusal	Refusal
T11A17-SL-12	12	Soil	X	X	X	Refusal
T11A17-SL-13	13	Soil	X	X	Refusal	Refusal
T11A17-SL-14	14	Soil	X	X	Refusal	Refusal
T11A17-SL-15	15	Soil	X	X	Refusal	Refusal
T11A17-SL-16	16	Soil	X	X	X	Refusal
T11A17-SL-17	17	Soil	X	X	X	Refusal
T11A17-SL-18	18	Soil	X	X	X	Refusal
T11A17-SL-19	19	Soil	X	X	X	Refusal
T11A17-SL-20	20	Soil	X	X	Refusal	Refusal
T11A17-SL-21	21	Soil	X	X	X	X
T11A17-SL-35	35	Soil	X	X	X	Refusal
T11A17-SED-J-1	J-1	Soil	X	X	Refusal	Refusal
T11A17-SED-J-2	J-2	Sediment	X	X	Refusal	Refusal
T11A17-SED-J-3	J-3	Sediment	X	X	Refusal	Refusal
T11A17-SL-JT-1A	JT-1A	Soil	X	X	Refusal	Refusal
T11A17-SL-JT-1B	JT-1B	Soil	X	X	Refusal	Refusal
T11A17-SL-JT-2	JT-2	Soil	X	X	X	Refusal
Total Samples Collected			**28**	**27**	**14**	**1**

Notes:
1. X indicates sample interval was collected during processing. Grey shading indicates sample was archived and has not been analyzed.
2. No samples were collected below 22 inches.
3. The 12- to 18-inch sample interval for T11A17-SL-3 was collected at a later date using the modified collection method.

Table 6
November 2017 and January and March 2018 Sediment and Soil Sampling Summary
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Matrix	Sample Interval (inches)[1]				
		0 - 6	6 - 12	12 - 18	18 - 24	24+
Tributary T11A						
T11A17-SL-1	Soil	X	Refusal	Refusal	Refusal	Refusal
T11A17-SL-2	Soil	X	X	X	Refusal	Refusal
T11A17-SL-3	Soil	X	X	X	Refusal	Refusal
T11A17-SL-4	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-5	Soil	X	X	X	Refusal	Refusal
T11A17-SL-6	Soil	X	X	X	Refusal	Refusal
T11A17-SL-7	Soil	X	X	X	Refusal	Refusal
T11A17-SL-8	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-9	Soil	XX	XX	Refusal	Refusal	Refusal
T11A17-SL-10	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-11	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-12	Soil	X	X	X	Refusal	Refusal
T11A17-SL-13	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-14	Soil	XX	XX	Refusal	Refusal	Refusal
T11A17-SL-15	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-16	Soil	X	X	X	Refusal	Refusal
T11A17-SL-17	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-18	Soil	X	X	X	Refusal	Refusal
T11A17-SL-19	Soil	X	X	X	Refusal	Refusal
T11A17-SL-20	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-21	Soil	X	X	X	X	Refusal
T11A17-SL-22	Soil	X	X	X	Refusal	Refusal
T11A17-SL-23	Soil	X	X	X	Refusal	Refusal
T11A17-SL-24	Soil	X	X	X	X	Refusal
T11A17-SL-25	Soil	X	X	X	Refusal	Refusal
T11A17-SL-26	Soil	X	X	X	X	Refusal
T11A17-SL-27	Soil	X	X	X	X	Refusal
T11A17-SL-28	Soil	X	X	X	Refusal	Refusal
T11A17-SL-29	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-30	Soil	X	X	X	X	Refusal
T11A17-SED-31	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SL-32	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-33	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-34	Soil	X	X	X	Refusal	Refusal
T11A17-SL-35	Soil	X	X	X	Refusal	Refusal
T11A17-SL-36	Soil	X	X	X	X	Refusal
T11A17-SL-37	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-38	Soil	X	X	X	X	Refusal
T11A17-SL-39	Soil	X	X	X	Refusal	Refusal
T11A17-SED-40	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SL-41	Soil	X	X	X	X	Refusal
T11A17-SL-42	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-43	Soil	X	X	X	Refusal	Refusal
T11A17-SL-44	Soil	X	X	X	Refusal	Refusal
T11A17-SL-45	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-46	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-47	Soil	X	X	X	Refusal	Refusal
T11A17-SL-48	Soil	X	X	X	X	Refusal
T11A17-SED-49	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SL-50	Soil	X	X	X	Refusal	Refusal
T11A17-SL-51	Soil	XX	XX	XX	XX	Refusal
T11A17-SL-52	Soil	X	X	X	Refusal	Refusal
T11A17-SL-53	Soil	XX	XX	XX	XX	Refusal
T11A17-SL-54	Soil	X	X	X	X	Refusal
T11A17-SL-55	Soil	X	X	X	X	Refusal

Table 6
November 2017 and January and March 2018 Sediment and Soil Sampling Summary
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

		Sample Interval (inches)[1]				
Location Name	**Matrix**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**24+**
Tributary T11A (continued)						
T11A17-SL-56	Soil	X	X	X	X	Refusal
T11A17-SL-57	Soil	X	X	X	Refusal	Refusal
T11A17-SL-58	Soil	X	X	X	Refusal	Refusal
T11A17-SL-59	Soil	X	X	X	X	Refusal
T11A17-SL-60	Soil	X	X	X	Refusal	Refusal
T11A17-SL-61	Soil	X	X	X	X	Refusal
T11A17-SL-62	Soil	X	X	X	Refusal	Refusal
T11A17-SL-63	Soil	X	X	X	Refusal	Refusal
T11A17-SL-64	Soil	X	X	X	X	Refusal
T11A17-SL-65	Soil	X	X	X	Refusal	Refusal
T11A17-SL-66	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-67	Soil	X	X	X	Refusal	Refusal
T11A17-SL-68	Soil	X	X	X	X	Refusal
T11A17-SL-69	Soil	X	X	X	Refusal	Refusal
T11A17-SL-70	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-71	Soil	X	X	X	Refusal	Refusal
T11A17-SL-72	Soil	X	X	X	Refusal	Refusal
T11A17-SL-73	Soil	X	X	X	Refusal	Refusal
T11A17-SL-74	Soil	X	X	X	X	Refusal
T11A17-SL-75	Soil	XX	XX	Refusal	Refusal	Refusal
T11A17-SL-76	Soil	X	Refusal	Refusal	Refusal	Refusal
T11A17-SL-77	Soil	X	X	X	X	Refusal
T11A17-SL-78	Soil	X	X	X	X	Refusal
T11A17-SL-79	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-80	Soil	X	X	X	Refusal	Refusal
T11A17-SL-81	Soil	X	X	X	X	Refusal
T11A17-SL-82	Soil	X	X	X	Refusal	Refusal
T11A17-SL-83	Soil	X	X	X	Refusal	Refusal
T11A17-SL-84	Soil	X	X	X	Refusal	Refusal
T11A17-SL-85	Soil	X	X	X	X	Refusal
T11A17-SL-86	Soil	X	X	X	X	Refusal
T11A17-SL-87	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-88	Soil	X	X	X	Refusal	Refusal
T11A17-SL-89	Soil	X	X	X	Refusal	Refusal
T11A17-SL-90	Soil	X	X	X	X	Refusal
T11A17-SL-91	Soil	X	X	X	Refusal	Refusal
T11A17-SL-92	Soil	X	X	X	Refusal	Refusal
T11A17-SL-93	Soil	X	X	X	X	Refusal
T11A17-SL-94	Soil	XX	XX	XX	Refusal	Refusal
T11A17-SL-95	Soil	X	X	X	Refusal	Refusal
T11A17-SL-96	Soil	X	X	X	Refusal	Refusal
T11A17-SL-97	Soil	X	X	X	Refusal	Refusal
T11A17-SL-98	Soil	X	X	X	Refusal	Refusal
T11A17-SL-99	Soil	X	X	X	X	Refusal
T11A17-SL-100	Soil	X	X	X	Refusal	Refusal
T11A17-SL-102	Soil	X	X	X	Refusal	Refusal
T11A17-SL-106	Soil	X	X	X	X	Refusal
T11A17-SL-109	Soil	X	X	X	Refusal	Refusal
T11A17-SL-111	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-115	Soil	X	X	X	Refusal	Refusal
T11A17-SL-121	Soil	X	X	X	Refusal	Refusal
T11A17-SL-124	Soil	X	X	X	X	Refusal
T11A17-SL-125	Soil	X	X	X	Refusal	Refusal
T11A17-SL-126	Soil	X	X	X	Refusal	Refusal
T11A17-SL-127	Soil	X	X	X	X	Refusal

Table 6

November 2017 and January and March 2018 Sediment and Soil Sampling Summary

Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

		Sample Interval (inches)[1]				
Location Name	**Matrix**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**24+**
Tributary T11A (continued)						
T11A17-SL-128	Soil	X	X	X	Refusal	Refusal
T11A17-SL-129	Soil	X	X	X	Refusal	Refusal
T11A17-SL-130	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-131	Soil	X	X	X	Refusal	Refusal
T11A17-SL-132	Soil	X	X	X	X	Refusal
T11A17-SL-133	Soil	X	X	X	Refusal	Refusal
T11A17-SL-134	Soil	X	X	X	X	Refusal
T11A17-SL-135	Soil	X	X	X	X	Refusal
T11A17-SL-136	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-137	Soil	XX	XX	XX	XX	Refusal
T11A17-SL-138	Soil	X	X	X	X	Refusal
T11A17-SL-139	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-140	Soil	X	X	X	X	X
T11A17-SL-141	Soil	X	X	X	Refusal	Refusal
T11A17-SL-142	Soil	XX	XX	XX	XX	Refusal
T11A17-SL-143	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-144	Soil	X	X	X	Refusal	Refusal
T11A17-SED-J-1	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SED-J-2	Sediment	X	X	Refusal	Refusal	Refusal
T11A17-SED-J-3	Sediment	XX	XX	Refusal	Refusal	Refusal
T11A17-SED-J-4	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-5	Sediment	XX	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-6	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-7	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-8	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-9	Sediment	X	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-10	Sediment	X	X	Refusal	Refusal	Refusal
T11A17-SL-J-11	Soil	X	X	X	X	Refusal
T11A17-SL-J-12	Soil	X	X	X	Refusal	Refusal
T11A17-SL-J-13	Soil	X	X	X	X	Refusal
T11A17-SL-J-14	Soil	X	X	X	Refusal	Refusal
T11A17-SL-J-15	Soil	X	X	X	X	Refusal
T11A17-SL-J-16	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-1A	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-JT-1B	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-JT-2	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-3	Soil	X	X	X	X	Refusal
T11A17-SL-JT-4	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-5	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-6	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-7	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-8	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-9	Soil	X	X	X	X	Refusal
T11A17-SL-JT-10	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-11	Soil	X	X	X	X	Refusal
T11A17-SL-JT-12	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-13	Soil	X	X	X	Refusal	Refusal
T11A17-SL-JT-14	Soil	X	X	Refusal	Refusal	Refusal
T11A17-SL-JT-15	Soil	X	X	X	X	Refusal
T11A18-SL-145	Soil	X	X	X	Refusal	Refusal
T11A18-SL-146	Soil	X	X	X	Refusal	Refusal
T11A18-SL-147	Soil	X	X	X	Refusal	Refusal
T11A18-SL-148	Soil	X	X	Refusal	Refusal	Refusal
T11A18-SL-149	Soil	X	X	X	X	Refusal
T11A18-SL-150	Soil	X	X	X	X	Refusal

Table 6
November 2017 and January and March 2018 Sediment and Soil Sampling Summary
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Matrix	Sample Interval (inches)[1]				
		0 - 6	6 - 12	12 - 18	18 - 24	24+
Tributary T11A (continued)						
T11A18-SL-151	Soil	X	X	X	X	Refusal
T11A18-SED-152	Sediment	X	X	Refusal	Refusal	Refusal
T11A18-SL-153	Soil	X	X	X	Refusal	Refusal
T11A18-SED-154	Sediment	X	X	Refusal	Refusal	Refusal
T11A18-SED-155	Sediment	X	X	X	Refusal	Refusal
T11A18-SL-156	Soil	X	X	X	X	X
T11A18-SL-157	Soil	X	X	X	X	Refusal
T11A18-SL-158	Soil	X	X	X	Refusal	Refusal
T11A18-SL-159	Soil	X	X	X	Refusal	Refusal
T11A18-SL-160	Soil	X	X	X	X	X
T11A18-SL-161	Soil	X	X	X	Refusal	Refusal
T11A18-SL-162	Soil	X	X	X	X	Refusal
T11A18-SED-163	Sediment	X	X	X	Refusal	Refusal
T11A18-SL-164	Soil	X	X	X	Refusal	Refusal
T11A18-SL-165	Soil	X	X	X	X	Refusal
T11A18-SL-166	Soil	X	X	X	X	Refusal
T11A18-SED-167	Sediment	X	X	Refusal	Refusal	Refusal
T11A18-SL-168	Soil	X	X	X	Refusal	Refusal
T11A18-SL-169	Soil	X	X	X	X	Refusal
T11A18-SL-170	Soil	X	X	X	X	Refusal
T11A18-SL-171	Soil	X	X	X	Refusal	Refusal
T11A18-SL-172	Soil	X	X	X	X	Refusal
T11A18-SL-173	Soil	X	X	X	X	Refusal
T11A18-SL-174	Soil	X	X	X	X	Refusal
T11A18-SL-175	Soil	X	X	X	X	Refusal
T11A18-SL-176	Soil	X	X	X	X	Refusal
T11A18-SL-177	Soil	X	X	X	X	Refusal
T11A18-SL-178	Soil	X	X	X	*See Note 4*	X
T11A18-SL-179	Soil	X	X	X	Refusal	Refusal
T11A18-SL-180	Soil	X	X	X	Refusal	Refusal
T11A18-SL-181	Soil	X	X	X	X	Refusal
T11A18-SL-182	Soil	X	X	X	X	Refusal
T11A18-SL-183	Soil	X	X	X	X	Refusal
T11A18-SL-184	Soil	X	X	X	X	Refusal
T11A18-SL-185	Soil	X	X	X	X	Refusal
T11A18-SL-186	Soil	X	X	X	X	Refusal
T11A18-SED-187	Sediment	X	X	Refusal	Refusal	Refusal
T11A18-SL-188	Soil	X	X	X	Refusal	Refusal
T11A18-SL-189	Soil	X	X	X	X	Refusal
T11A18-SL-190	Soil	X	X	X	X	Refusal
T11A18-SL-191	Soil	X	X	X	X	Refusal
T11A18-SL-192	Soil	X	X	X	X	Refusal
T11A18-SL-193	Soil	X	X	X	Refusal	Refusal
T11A18-SL-194	Soil	X	X	X	X	Refusal
T11A18-SL-195	Soil	X	X	X	X	X
T11A18-SL-196	Soil	X	X	X	X	Refusal
T11A18-SL-197	Soil	X	X	X	Refusal	Refusal
T11A18-SL-198	Soil	X	X	X	Refusal	Refusal
T11A18-SL-207	Soil	X	X	X	Refusal	Refusal
T11A18-SL-208	Soil	X	X	X	X	Refusal
T11A18-SL-209	Soil	X	X	X	X	Refusal
T11A18-SL-210	Soil	X	X	X	X	Refusal
T11A18-SL-210A	Soil	X	X	X	Refusal	Refusal
T11A18-SL-211	Soil	X	X	X	X	Refusal
T11A18-SL-212	Soil	X	X	X	X	Refusal

Table 6
November 2017 and January and March 2018 Sediment and Soil Sampling Summary
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

		Sample Interval (inches)[1]				
Location Name	**Matrix**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**24+**
Tributary T11A (continued)						
T11A18-SL-213	Soil	X	X	X	X	Refusal
T11A18-SL-214	Soil	X	X	X	Refusal	Refusal
T11A18-SL-215	Soil	X	X	X	Refusal	Refusal
Samples Collected		**223**	**212**	**178**	**80**	**5**
Samples Collected and Archived		**0**	**0**	**109**	**60**	**5**
Samples Collected and Analyzed for PCBs		**223**	**212**	**69**	**20**	**0**
Samples Collected and Analyzed for TOC		**15**	**14**	**3**	**1**	**0**
Northwest Drainage Ditch and Former Mead Road Pond Area						
NWDD17-SL-105	Soil	XX	XX	XX	XX	XX
NWDD17-SL-110	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-103	Soil	X	X	X	X	X
NWDD17-SL-104	Soil	X	X	X	X	X
NWDD17-SL-101	Soil	XX	XX	**XX**	**XX**	Refusal
NWDD17-SL-119	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-122	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-112	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-123	Soil	X	X	X	X	Refusal
NWDD17-SL-113	Soil	X	X	X	X	X
NWDD17-SL-116	Soil	X	X	X	X	X
NWDD17-SL-118	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-120	Soil	X	X	X	X	X
NWDD17-SL-117	Soil	X	X	X	Refusal	Refusal
NWDD17-SL-107	Soil	XX	XX	XX	XX	Refusal
NWDD17-SL-108	Soil	X	X	X	X	Refusal
NWDD17-SL-114	Soil	X	X	X	Refusal	Refusal
NWDD18-SL-199	Soil	X	X	X	X	X
NWDD18-SL-200	Soil	X	X	X	X	Refusal
NWDD18-SED-201	Sediment	X	X	Refusal	Refusal	Refusal
NWDD18-SED-202	Sediment	X	X	X	X	Refusal
NWDD18-SL-203	Soil	X	X	X	X	X
NWDD18-SL-204	Soil	X	X	X	X	X
NWDD18-SL-205	Soil	X	X	X	Refusal	Refusal
NWDD18-SL-206	Soil	X	X	X	Refusal	Refusal
NWDD18-SL-216	Soil	X	X	X	X	Refusal
NWDD18-SL-217	Soil	X	X	X	X	Refusal
NWDD17-SED-J-4	Sediment	X	X	X	Refusal	Refusal
NWDD17-SED-J-5	Sediment	X	XX	Refusal	Refusal	Refusal
NWDD17-SED-J-6	Sediment	X	*See Note 4*	X	X	Refusal
MRP17-SED-J-1	Sediment	X	Refusal	Refusal	Refusal	Refusal
MRP17-SED-J-2	Sediment	X	Refusal	Refusal	Refusal	Refusal
MRP17-SED-J-3	Sediment	X	Refusal	Refusal	Refusal	Refusal
Samples Collected		**33**	**29**	**28**	**18**	**9**
Samples Collected and Archived		**0**	**0**	**26**	**17**	**9**
Samples Collected and Analyzed for PCBs		**33**	**29**	**2**	**1**	**0**
Samples Collected and Analyzed for TOC		**3**	**4**	**1**	**1**	**0**

Notes:

1. Sample Interval represents the target range of inches below ground surface. At some locations refusal was met before the bottom of the target interval, and the actual depth is shallower than the target.
2. X and XX indicate sample interval was collected during processing. X indicates sample interval marked for PCB analysis only, XX indicates sample interval marked for PCB and TOC analysis.
3. Grey shading indicates sample was archived and has not been analyzed.
4. No recovery was achieved in the 6- to 12-inch interval at location NWDD17-SED-J-6 or from the 18- to 24-inch interval at location T11A18-SL-178.

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	MRP17-SED-J-01	MRP17-SED-J-02	MRP17-SED-J-03	NWDD17-SED-J-04	NWDD17-SED-J-04	NWDD17-SED-J-05	NWDD17-SED-J-05	NWDD17-SED-J-06	NWDD17-SED-J-06	NWDD17-SL-101
Sample Depth:	**0 - 3**	**0 - 3**	**0 - 6**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 11**	**0 - 6**	**12 - 18**	**0 - 6**
Date:	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**
PCBs										
Aroclor 1016	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1221	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1232	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1242	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1248	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1254	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor 1260	**0.536**	**0.254**	**3.27**	**0.133**	ND(0.039)	**0.947**	**0.147**	**1.86**	**0.147**	**2.3**
Aroclor-1262	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Aroclor-1268	ND(0.084)	ND(0.11)	ND(0.045)	ND(0.054)	ND(0.039)	ND(0.04)	ND(0.057)	ND(0.043)	ND(0.036)	ND(0.062)
Total PCBs	**0.536**	**0.254**	**3.27**	**0.133**	ND	**0.947**	**0.147**	**1.86**	**0.147**	**2.3**
Miscellaneous										
TOC	NA	NA	NA	NA	NA	NA	58,800	NA	NA	39,700

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	NWDD17-SL-101 6 - 12 11/16/17	NWDD17-SL-101 12 - 18 11/16/17	NWDD17-SL-101 18 - 20 11/16/17	NWDD17-SL-103 0 - 6 11/16/17	NWDD17-SL-103 6 - 12 11/16/17	NWDD17-SL-104 0 - 6 11/16/17	NWDD17-SL-104 6 - 12 11/16/17	NWDD17-SL-105 0 - 6 11/16/17	NWDD17-SL-105 6 - 12 11/16/17	NWDD17-SL-107 0 - 6 11/16/17	NWDD17-SL-107 6 - 12 11/16/17
PCBs											
Aroclor 1016	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1221	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1232	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1242	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1248	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1254	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor 1260	**17.3**	**0.0458**	ND(0.039)	**0.519**	**0.227**	**2.19**	**0.0288 J**	**3.09**	**0.602**	**0.717**	**0.22**
Aroclor-1262	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Aroclor-1268	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.048)	ND(0.048)	ND(0.054)	ND(0.037)	ND(0.04)	ND(0.051)	ND(0.065)	ND(0.054)
Total PCBs	**17.3**	**0.0458**	ND	**0.519**	**0.227**	**2.19**	**0.0288 J**	**3.09**	**0.602**	**0.717**	**0.22**
Miscellaneous											
TOC	31,200	2,940	1,640	NA	NA	NA	NA	59,200	31,200	52,900	53,900

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**NWDD17-SL-108**	**NWDD17-SL-108**	**NWDD17-SL-110**	**NWDD17-SL-110**	**NWDD17-SL-112**	**NWDD17-SL-112**	**NWDD17-SL-113**	**NWDD17-SL-113**	**NWDD17-SL-114**	**NWDD17-SL-114**	**NWDD17-SL-116**
Sample Depth:	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**
Date:	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**
PCBs											
Aroclor 1016	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1221	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1232	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1242	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1248	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1254	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor 1260	**1.22**	**0.856**	**1.15**	**0.498**	**2.95**	**0.817**	**0.143**	**0.0304 J**	**1.3**	**0.864**	**0.111**
Aroclor-1262	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Aroclor-1268	ND(0.046)	ND(0.051)	ND(0.04)	ND(0.036)	ND(0.073)	ND(0.055)	ND(0.051)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.041)
Total PCBs	**1.22**	**0.856**	**1.15**	**0.498**	**2.95**	**0.817**	**0.143**	**0.0304 J**	**1.3**	**0.864**	**0.111**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	NWDD17-SL-116	NWDD17-SL-117	NWDD17-SL-117	NWDD17-SL-118	NWDD17-SL-118	NWDD17-SL-119	NWDD17-SL-119	NWDD17-SL-120	NWDD17-SL-120	NWDD17-SL-122	NWDD17-SL-122
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17
PCBs											
Aroclor 1016	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1221	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1232	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1242	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1248	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1254	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor 1260	**0.123**	**0.483**	**0.111**	**0.135**	**0.118**	**0.89**	**0.917**	**0.0727**	**0.187**	**0.231**	**0.09**
Aroclor-1262	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Aroclor-1268	ND(0.04)	ND(0.048)	ND(0.051)	ND(0.049)	ND(0.046)	ND(0.056)	ND(0.041)	ND(0.036)	ND(0.039)	ND(0.038)	ND(0.039)
Total PCBs	**0.123**	**0.483**	**0.111**	**0.135**	**0.118**	**0.89**	**0.917**	**0.0727**	**0.187**	**0.231**	**0.09**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	NWDD17-SL-123	NWDD17-SL-123	NWDD18-SED-201	NWDD18-SED-201	NWDD18-SED-202	NWDD18-SED-202	NWDD18-SL-199	NWDD18-SL-199	NWDD18-SL-200	NWDD18-SL-200
Sample Depth:	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**
Date:	**11/16/17**	**11/16/17**	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**
PCBs										
Aroclor 1016	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1221	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1232	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1242	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1248	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1254	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor 1260	**0.722**	**0.778**	**0.156**	ND(0.06)	**0.547**	**0.44**	**0.0702**	**0.0479**	**0.168 [0.222]**	**0.04 J**
Aroclor-1262	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Aroclor-1268	ND(0.038)	ND(0.037)	ND(0.052)	ND(0.06)	ND(0.06)	ND(0.048)	ND(0.044)	ND(0.044)	ND(0.046) [ND(0.11)]	ND(0.041)
Total PCBs	**0.722**	**0.778**	**0.156**	ND	**0.547**	**0.44**	**0.0702**	**0.0479**	**0.168 [0.222]**	**0.04 J**
Miscellaneous										
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	NWDD18-SL-203	NWDD18-SL-203	NWDD18-SL-204	NWDD18-SL-204	NWDD18-SL-205	NWDD18-SL-205	NWDD18-SL-206	NWDD18-SL-206	NWDD18-SL-216	NWDD18-SL-216	NWDD18-SL-217
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	01/17/18	01/17/18	01/17/18	01/17/18	01/17/18	01/17/18	01/17/18	01/17/18	03/28/18	03/28/18	03/28/18
PCBs											
Aroclor 1016	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1221	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1232	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1242	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1248	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1254	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor 1260	**1.34**	**0.165**	**0.0415 J**	**0.0564**	**0.07**	**0.236**	**0.172**	**0.431**	**0.29 [0.592]**	**0.161**	**0.783**
Aroclor-1262	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Aroclor-1268	ND(0.09)	ND(0.043)	ND(0.043)	ND(0.056)	ND(0.054)	ND(0.041)	ND(0.045)	ND(0.045)	ND(0.058) [ND(0.056)]	ND(0.047)	ND(0.048)
Total PCBs	**1.34**	**0.165**	**0.0415 J**	**0.0564**	**0.07**	**0.236**	**0.172**	**0.431**	**0.29 [0.592]**	**0.161**	**0.783**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	NWDD18-SL-217	T11A17-SED-31	T11A17-SED-40	T11A17-SED-49	T11A17-SED-J-1	T11A17-SED-J-1	T11A17-SED-J-10	T11A17-SED-J-10	T11A17-SED-J-2	T11A17-SED-J-2	T11A17-SED-J-3
Sample Depth:	**6 - 12**	**0 - 6**	**0 - 6**	**0 - 6**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 10**	**0 - 6**	**6 - 8**	**0 - 6**
Date:	**03/28/18**	**11/09/17**	**11/09/17**	**11/10/17**	**11/08/17**	**11/08/17**	**11/16/17**	**11/16/17**	**11/08/17**	**11/08/17**	**11/08/17**
PCBs											
Aroclor 1016	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1221	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1232	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1242	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1248	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1254	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor 1260	ND(0.049) [ND(0.048)]	**2.91**	**1.18**	**3.22**	**3.65**	**1.29**	**0.609**	**0.535**	**1.85**	**0.329**	**0.962**
Aroclor-1262	**0.0154 J [0.0205 J]**	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Aroclor-1268	ND(0.049) [ND(0.048)]	ND(0.037)	ND(0.043)	ND(0.036)	ND(0.038)	ND(0.035)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.039)
Total PCBs	**0.0154 J [0.0205 J]**	**2.91**	**1.18**	**3.22**	**3.65**	**1.29**	**0.609**	**0.535**	**1.85**	**0.329**	**0.962**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,320

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SED-J-3	T11A17-SED-J-4	T11A17-SED-J-5	T11A17-SED-J-6	T11A17-SED-J-7	T11A17-SED-J-8	T11A17-SED-J-9	T11A17-SL-1	T11A17-SL-10	T11A17-SL-10	T11A17-SL-100	T11A17-SL-100
Sample Depth:	6 - 8	0 - 6	0 - 6	0 - 6	0 - 6	0 - 3	0 - 4	0 - 6	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/08/17	11/09/17	11/09/17	11/09/17	11/14/17	11/14/17	11/14/17	11/07/17	11/08/17	11/08/17	11/14/17	11/14/17
PCBs												
Aroclor 1016	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1221	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1232	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1242	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1248	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1254	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor 1260	**0.572**	**1.28**	**0.561**	**1.53**	**4.32**	**0.596**	**0.135**	**0.0589**	**36.7**	**114**	**0.245**	**0.101**
Aroclor-1262	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Aroclor-1268	ND(0.036)	ND(0.039)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.04)	ND(0.037)	ND(0.038)	ND(0.14)	ND(0.042)	ND(0.041)	ND(0.042)
Total PCBs	**0.572**	**1.28**	**0.561**	**1.53**	**4.32**	**0.596**	**0.135**	**0.0589**	**36.7**	**114**	**0.245**	**0.101**
Miscellaneous												
TOC	1,210	NA	2,290	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-102	T11A17-SL-102	T11A17-SL-106	T11A17-SL-106	T11A17-SL-109	T11A17-SL-109	T11A17-SL-109	T11A17-SL-11	T11A17-SL-11	T11A17-SL-111	T11A17-SL-111	T11A17-SL-115
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 11	0 - 6
Date:	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/08/17	11/08/17	11/16/17	11/16/17	11/14/17
PCBs												
Aroclor 1016	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1221	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1232	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1242	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1248	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1254	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor 1260	**0.155**	**0.0924**	**0.189**	**0.0503**	**0.479**	**0.26**	**0.21**	**0.203**	ND(0.035)	**4.74**	**13**	**0.845 [0.782]**
Aroclor-1262	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Aroclor-1268	ND(0.041)	ND(0.04)	ND(0.047)	ND(0.04)	ND(0.049)	ND(0.043)	ND(0.043)	ND(0.038)	ND(0.035)	ND(0.038)	ND(0.038)	ND(0.047) [ND(0.044)]
Total PCBs	**0.155**	**0.0924**	**0.189**	**0.0503**	**0.479**	**0.26**	**0.21**	**0.203**	ND	**4.74**	**13**	**0.845 [0.782]**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-115	T11A17-SL-12	T11A17-SL-12	T11A17-SL-121	T11A17-SL-121	T11A17-SL-121	T11A17-SL-124	T11A17-SL-124	T11A17-SL-125	T11A17-SL-125	T11A17-SL-125	T11A17-SL-126
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6
Date:	11/14/17	11/08/17	11/08/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17
PCBs												
Aroclor 1016	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1221	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1232	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1242	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1248	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1254	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor 1260	**0.0322 J**	**0.238**	ND(0.036)	**0.155**	ND(0.038)	ND(0.042)	**0.172**	ND(0.042)	**0.143**	ND(0.036) [ND(0.037)]	ND(0.04)	**0.534**
Aroclor-1262	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Aroclor-1268	ND(0.04)	ND(0.041)	ND(0.036)	ND(0.042)	ND(0.038)	ND(0.042)	ND(0.037)	ND(0.042)	ND(0.042)	ND(0.036) [ND(0.037)]	ND(0.04)	ND(0.045)
Total PCBs	**0.0322 J**	**0.238**	ND	**0.155**	ND	ND	**0.172**	ND	**0.143**	ND [ND]	ND	**0.534**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-126 6 - 12 11/16/17	T11A17-SL-127 0 - 6 11/16/17	T11A17-SL-127 6 - 12 11/16/17	T11A17-SL-128 0 - 6 11/16/17	T11A17-SL-128 6 - 12 11/16/17	T11A17-SL-129 0 - 6 11/16/17	T11A17-SL-129 6 - 12 11/16/17	T11A17-SL-13 0 - 6 11/08/17	T11A17-SL-13 6 - 12 11/08/17	T11A17-SL-130 0 - 6 11/16/17	T11A17-SL-130 6 - 11 11/16/17	T11A17-SL-131 0 - 6 11/16/17
PCBs												
Aroclor 1016	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1221	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1232	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1242	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1248	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1254	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor 1260	ND(0.043)	**0.0282 J**	ND(0.047)	**1.9**	**0.628**	**0.136**	**0.0262 J**	**314**	**10.8**	**30.6**	**16.5**	**6.57**
Aroclor-1262	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Aroclor-1268	ND(0.043)	ND(0.041)	ND(0.047)	ND(0.051)	ND(0.037)	ND(0.049)	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.095)	ND(0.066)	ND(0.048)
Total PCBs	ND	**0.0282 J**	ND	**1.9**	**0.628**	**0.136**	**0.0262 J**	**314**	**10.8**	**30.6**	**16.5**	**6.57**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-131	T11A17-SL-132	T11A17-SL-132	T11A17-SL-133	T11A17-SL-133	T11A17-SL-134	T11A17-SL-134	T11A17-SL-135	T11A17-SL-135	T11A17-SL-136	T11A17-SL-136	T11A17-SL-137
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17
PCBs												
Aroclor 1016	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1221	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1232	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1242	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1248	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1254	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor 1260	**0.784**	**0.0597**	ND(0.035)	**0.481**	**0.222**	**0.117**	**0.0705**	**0.199**	**0.076**	**0.22**	**0.198**	**0.273 [0.401]**
Aroclor-1262	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Aroclor-1268	ND(0.037)	ND(0.043)	ND(0.035)	ND(0.045)	ND(0.038)	ND(0.039)	ND(0.04)	ND(0.049)	ND(0.045)	ND(0.042)	ND(0.039)	ND(0.042) [ND(0.049)]
Total PCBs	**0.784**	**0.0597**	ND	**0.481**	**0.222**	**0.117**	**0.0705**	**0.199**	**0.076**	**0.22**	**0.198**	**0.273 [0.401]**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30,000 [38,100]

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-137	T11A17-SL-138	T11A17-SL-138	T11A17-SL-138	T11A17-SL-138	T11A17-SL-139	T11A17-SL-139	T11A17-SL-14	T11A17-SL-14	T11A17-SL-140	T11A17-SL-140	T11A17-SL-141
Sample Depth:	6 - 12	0 - 6	6 - 12	12 - 18	18 - 22	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/07/17	11/07/17	11/16/17	11/16/17	11/16/17
PCBs												
Aroclor 1016	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1221	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1232	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1242	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1248	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	**1.38**	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1254	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor 1260	**0.0343 J**	**1.52**	**1.37**	**16.5**	**23.8**	**0.0718**	ND(0.034)	**0.187**	ND(0.035)	ND(0.037)	ND(0.037)	**0.138**
Aroclor-1262	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Aroclor-1268	ND(0.036)	ND(0.052)	ND(0.045)	ND(0.046)	ND(0.042)	ND(0.037)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.042)
Total PCBs	**0.0343 J**	**1.52**	**1.37**	**16.5**	**25.18**	**0.0718**	ND	**0.187**	ND	ND	ND	**0.138**
Miscellaneous												
TOC	7,820	NA	NA	NA	NA	NA	NA	14,600	790	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-141 6 - 12 11/16/17	T11A17-SL-142 0 - 6 11/16/17	T11A17-SL-142 6 - 12 11/16/17	T11A17-SL-143 0 - 6 11/16/17	T11A17-SL-143 6 - 11 11/16/17	T11A17-SL-144 0 - 6 11/16/17	T11A17-SL-144 6 - 12 11/16/17	T11A17-SL-15 0 - 6 11/08/17	T11A17-SL-15 6 - 12 11/08/17	T11A17-SL-16 0 - 6 11/08/17	T11A17-SL-16 6 - 12 11/08/17	T11A17-SL-16 12 - 13 11/08/17
PCBs												
Aroclor 1016	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1221	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1232	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1242	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1248	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1254	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor 1260	**0.0231 J**	**0.465**	**0.0154 J**	**0.195 [0.192]**	**0.0743**	**0.366**	**0.451**	**0.476**	**0.0889**	**0.286**	**0.0531**	**0.0244 J**
Aroclor-1262	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Aroclor-1268	ND(0.041)	ND(0.045)	ND(0.038)	ND(0.04) [ND(0.038)]	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.035)	ND(0.039)	ND(0.038)	ND(0.036)
Total PCBs	**0.0231 J**	**0.465**	**0.0154 J**	**0.195 [0.192]**	**0.0743**	**0.366**	**0.451**	**0.476**	**0.0889**	**0.286**	**0.0531**	**0.0244 J**
Miscellaneous												
TOC	NA	24,500	13,900	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-17 0 - 6 11/08/17	T11A17-SL-17 6 - 12 11/08/17	T11A17-SL-17 12 - 14 11/08/17	T11A17-SL-18 0 - 6 11/08/17	T11A17-SL-18 6 - 12 11/08/17	T11A17-SL-18 12 - 14 11/08/17	T11A17-SL-19 0 - 6 11/08/17	T11A17-SL-19 6 - 12 11/08/17	T11A17-SL-19 12 - 14 11/08/17	T11A17-SL-2 0 - 6 11/07/17	T11A17-SL-2 6 - 12 11/07/17	T11A17-SL-20 0 - 6 11/08/17	T11A17-SL-20 6 - 12 11/08/17
PCBs													
Aroclor 1016	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1221	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1232	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1242	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1248	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1254	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor 1260	**423**	**60.8**	**10.9**	**0.192**	**0.0405**	**0.0301 J**	**0.286**	**0.016 J**	ND(0.035)	**0.152**	ND(0.037)	**0.0655**	ND(0.036) [ND(0.034)]
Aroclor-1262	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Aroclor-1268	ND(0.046)	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.036) [ND(0.034)]
Total PCBs	**423**	**60.8**	**10.9**	**0.192**	**0.0405**	**0.0301 J**	**0.286**	**0.016 J**	ND	**0.152**	ND	**0.0655**	ND [ND]
Miscellaneous													
TOC	66,000	23,200	9,260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-21	T11A17-SL-21	T11A17-SL-22	T11A17-SL-22	T11A17-SL-23	T11A17-SL-23	T11A17-SL-24	T11A17-SL-24	T11A17-SL-24	T11A17-SL-25	T11A17-SL-25	T11A17-SL-26
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6
Date:	11/09/17	11/09/17	11/09/17	11/09/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/09/17	11/09/17	11/16/17
PCBs												
Aroclor 1016	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1221	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1232	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1242	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1248	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1254	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor 1260	**0.331**	**0.119**	ND(0.037)	ND(0.033)	**0.124 [0.121]**	**0.0352 J**	**4.55**	**2.27**	ND(0.038)	**0.0577**	**0.0199 J**	**0.186 [0.274]**
Aroclor-1262	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Aroclor-1268	ND(0.047)	ND(0.038)	ND(0.037)	ND(0.033)	ND(0.042) [ND(0.042)]	ND(0.038)	ND(0.043)	ND(0.041)	ND(0.038)	ND(0.038)	ND(0.035)	ND(0.037) [ND(0.041)]
Total PCBs	**0.331**	**0.119**	ND	ND	**0.124 [0.121]**	**0.0352 J**	**4.55**	**2.27**	ND	**0.0577**	**0.0199 J**	**0.186 [0.274]**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-26 6 - 12 11/16/17	T11A17-SL-27 0 - 6 11/16/17	T11A17-SL-27 6 - 12 11/16/17	T11A17-SL-28 0 - 6 11/09/17	T11A17-SL-28 6 - 12 11/09/17	T11A17-SL-29 0 - 6 11/16/17	T11A17-SL-29 6 - 12 11/16/17	T11A17-SL-3 0 - 6 11/07/17	T11A17-SL-3 6 - 12 11/07/17	T11A17-SL-3 12 - 18 11/16/17	T11A17-SL-30 0 - 6 11/09/17	T11A17-SL-30 6 - 12 11/09/17	T11A17-SL-32 0 - 6 11/09/17
PCBs													
Aroclor 1016	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor 1221	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor 1232	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor 1242	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor 1248	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor 1254	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	**0.0373 J**	ND(0.037)	ND(0.042)
Aroclor 1260	**0.908**	**0.523**	**0.523**	**10.4**	**0.269**	**4.5 [5.41]**	**1.57**	**9.34**	**1.28**	**2.22**	**0.0659**	**0.0201 J**	**1.91**
Aroclor-1262	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Aroclor-1268	ND(0.039)	ND(0.044)	ND(0.042)	ND(0.042)	ND(0.04)	ND(0.042) [ND(0.043)]	ND(0.039)	ND(0.041)	ND(0.036)	ND(0.033)	ND(0.041)	ND(0.037)	ND(0.042)
Total PCBs	**0.908**	**0.523**	**0.523**	**10.4**	**0.269**	**4.5 [5.41]**	**1.57**	**9.34**	**1.28**	**2.22**	**0.1032 J**	**0.0201 J**	**1.91**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-32	T11A17-SL-33	T11A17-SL-33	T11A17-SL-34	T11A17-SL-34	T11A17-SL-34	T11A17-SL-35	T11A17-SL-35	T11A17-SL-36	T11A17-SL-36	T11A17-SL-37	T11A17-SL-37
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/16/17	11/16/17
PCBs												
Aroclor 1016	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor 1221	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor 1232	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor 1242	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor 1248	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor 1254	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	**0.0464**
Aroclor 1260	**0.334**	**35.3**	**27.9**	**4.05**	**0.539**	**0.0503 [0.0793]**	**0.76**	**0.0226 J**	**0.367**	**0.0118 J**	**0.149 [0.405]**	**0.0353 J**
Aroclor-1262	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Aroclor-1268	ND(0.04)	ND(0.046)	ND(0.039)	ND(0.045)	ND(0.037)	ND(0.038) [ND(0.039)]	ND(0.044)	ND(0.038)	ND(0.04)	ND(0.034)	ND(0.049) [ND(0.13)]	ND(0.04)
Total PCBs	**0.334**	**35.3**	**27.9**	**4.05**	**0.539**	**0.0503 [0.0793]**	**0.76**	**0.0226 J**	**0.367**	**0.0118 J**	**0.149 [0.405]**	**0.0817 J**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: **Sample Depth:** **Date:**	**T11A17-SL-38** **0 - 6** **11/16/17**	**T11A17-SL-38** **6 - 12** **11/16/17**	**T11A17-SL-39** **0 - 6** **11/09/17**	**T11A17-SL-39** **6 - 12** **11/09/17**	**T11A17-SL-4** **0 - 6** **11/07/17**	**T11A17-SL-4** **6 - 12** **11/07/17**	**T11A17-SL-41** **0 - 6** **11/09/17**	**T11A17-SL-41** **6 - 12** **11/09/17**	**T11A17-SL-42** **0 - 6** **11/09/17**	**T11A17-SL-42** **6 - 12** **11/09/17**	**T11A17-SL-43** **0 - 6** **11/09/17**	**T11A17-SL-43** **6 - 12** **11/09/17**	**T11A17-SL-44** **0 - 6** **11/09/17**
PCBs													
Aroclor 1016	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1221	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1232	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1242	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1248	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1254	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor 1260	**0.293**	**0.156**	**0.376 [0.309]**	ND(0.039)	**11.9**	**3.38**	**0.611**	**0.335**	**0.124**	**0.0131 J**	**6.32**	**0.379**	**0.227**
Aroclor-1262	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Aroclor-1268	ND(0.046)	ND(0.041)	ND(0.11) [ND(0.12)]	ND(0.039)	ND(0.039)	ND(0.043)	ND(0.061)	ND(0.04)	ND(0.042)	ND(0.041)	ND(0.044)	ND(0.038)	ND(0.048)
Total PCBs	**0.293**	**0.156**	**0.376 [0.309]**	ND	**11.9**	**3.38**	**0.611**	**0.335**	**0.124**	**0.0131 J**	**6.32**	**0.379**	**0.227**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-44	T11A17-SL-45	T11A17-SL-45	T11A17-SL-46	T11A17-SL-46	T11A17-SL-47	T11A17-SL-47	T11A17-SL-48	T11A17-SL-48	T11A17-SL-5	T11A17-SL-5	T11A17-SL-50	T11A17-SL-50
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17	11/10/17	11/10/17	11/10/17	11/10/17	11/08/17	11/08/17	11/10/17	11/10/17
PCBs													
Aroclor 1016	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1221	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1232	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1242	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1248	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1254	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor 1260	**0.167**	**0.618**	**0.112**	**0.74**	**0.16**	**0.072**	**0.0187 J**	**0.144**	**0.0695**	**0.144**	ND(0.037)	**1.33**	**1.24**
Aroclor-1262	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Aroclor-1268	ND(0.041)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.036)	ND(0.037)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.046)
Total PCBs	**0.167**	**0.618**	**0.112**	**0.74**	**0.16**	**0.072**	**0.0187 J**	**0.144**	**0.0695**	**0.144**	ND	**1.33**	**1.24**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-50	T11A17-SL-51	T11A17-SL-51	T11A17-SL-52	T11A17-SL-52	T11A17-SL-52	T11A17-SL-53	T11A17-SL-53	T11A17-SL-53	T11A17-SL-54	T11A17-SL-54	T11A17-SL-55
Sample Depth:	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6
Date:	11/10/17	11/16/17	11/16/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/13/17
PCBs												
Aroclor 1016	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1221	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1232	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1242	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1248	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1254	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor 1260	**0.0929**	**0.0785**	**0.0346 J**	**9.74**	**11.1**	**16.8**	**0.449**	**0.214**	**0.028 J [0.0233 J]**	**6.29**	**0.322**	**0.337**
Aroclor-1262	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Aroclor-1268	ND(0.037)	ND(0.04)	ND(0.036)	ND(0.045)	ND(0.045)	ND(0.043)	ND(0.04)	ND(0.038)	ND(0.036) [ND(0.035)]	ND(0.055)	ND(0.049)	ND(0.057)
Total PCBs	**0.0929**	**0.0785**	**0.0346 J**	**9.74**	**11.1**	**16.8**	**0.449**	**0.214**	**0.028 J [0.0233 J]**	**6.29**	**0.322**	**0.337**
Miscellaneous												
TOC	NA	20,500	5,950	NA	NA	NA	19,100	10,100	4,880 [3,750]	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-55	T11A17-SL-56	T11A17-SL-56	T11A17-SL-56	T11A17-SL-57	T11A17-SL-57	T11A17-SL-57	T11A17-SL-58	T11A17-SL-58	T11A17-SL-58	T11A17-SL-59	T11A17-SL-59
Sample Depth:	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	12 - 16	0 - 6	6 - 12	12 - 16	0 - 6	6 - 12
Date:	11/13/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17	11/10/17
PCBs												
Aroclor 1016	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1221	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1232	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1242	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1248	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1254	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor 1260	ND(0.046)	**0.214**	**0.0982 [0.0977]**	ND(0.038)	**1.09**	**1.07**	**3.01**	**14**	**17.6**	ND(0.039)	**6.36**	**0.536**
Aroclor-1262	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Aroclor-1268	ND(0.046)	ND(0.047)	ND(0.042) [ND(0.039)]	ND(0.038)	ND(0.041)	ND(0.039)	ND(0.037)	ND(0.045)	ND(0.04)	ND(0.039)	ND(0.046)	ND(0.041)
Total PCBs	ND	**0.214**	**0.0982 [0.0977]**	ND	**1.09**	**1.07**	**3.01**	**14**	**17.6**	ND	**6.36**	**0.536**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-59	T11A17-SL-6	T11A17-SL-6	T11A17-SL-6	T11A17-SL-60	T11A17-SL-60	T11A17-SL-60	T11A17-SL-61	T11A17-SL-61	T11A17-SL-61	T11A17-SL-62	T11A17-SL-62
Sample Depth:	**12 - 18**	**0 - 6**	**6 - 12**	**12 - 14**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**
Date:	**11/10/17**	**11/07/17**	**11/07/17**	**11/07/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**
PCBs												
Aroclor 1016	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1221	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1232	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1242	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1248	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1254	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor 1260	**0.0549 [0.0478]**	**0.163**	ND(0.035) [ND(0.035)]	ND(0.033)	**0.202**	**0.0652**	**0.0157 J**	**0.204**	**0.0268 J**	ND(0.038)	**0.291**	**0.292**
Aroclor-1262	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Aroclor-1268	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.035) [ND(0.035)]	ND(0.033)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.056)	ND(0.036)	ND(0.038)	ND(0.047)	ND(0.041)
Total PCBs	**0.0549 [0.0478]**	**0.163**	ND [ND]	ND	**0.202**	**0.0652**	**0.0157 J**	**0.204**	**0.0268 J**	ND	**0.291**	**0.292**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A17-SL-62**	**T11A17-SL-63**	**T11A17-SL-63**	**T11A17-SL-63**	**T11A17-SL-64**	**T11A17-SL-64**	**T11A17-SL-64**	**T11A17-SL-64**	**T11A17-SL-65**	**T11A17-SL-65**	**T11A17-SL-66**	**T11A17-SL-66**	**T11A17-SL-66**
Sample Depth:	**12 - 16**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 22**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**
Date:	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**	**11/10/17**
PCBs													
Aroclor 1016	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1221	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1232	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1242	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1248	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1254	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor 1260	**0.0113 J**	**0.056**	ND(0.038)	**0.0302 J**	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	**0.289**	**0.034 J**	**0.189**	**0.234**	**0.123**
Aroclor-1262	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Aroclor-1268	ND(0.035)	ND(0.043)	ND(0.038)	ND(0.038)	ND(0.039)	ND(0.042)	ND(0.039)	ND(0.036)	ND(0.042)	ND(0.039)	ND(0.037)	ND(0.039)	ND(0.037)
Total PCBs	**0.0113 J**	**0.056**	ND	**0.0302 J**	ND	ND	ND	ND	**0.289**	**0.034 J**	**0.189**	**0.234**	**0.123**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20,100	12,000	12,500

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A17-SL-67**	**T11A17-SL-67**	**T11A17-SL-68**	**T11A17-SL-68**	**T11A17-SL-69**	**T11A17-SL-69**	**T11A17-SL-69**	**T11A17-SL-7**	**T11A17-SL-7**	**T11A17-SL-70**	**T11A17-SL-70**	**T11A17-SL-71**
Sample Depth:	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**
Date:	**11/10/17**	**11/10/17**	**11/13/17**	**11/13/17**	**11/13/17**	**11/13/17**	**11/13/17**	**11/07/17**	**11/07/17**	**11/13/17**	**11/13/17**	**11/10/17**
PCBs												
Aroclor 1016	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1221	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1232	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1242	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1248	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1254	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor 1260	**0.256 [0.238]**	**0.0205 J**	**0.2**	ND(0.034)	**1.03**	**0.0552 [0.0846]**	ND(0.034)	**0.282**	ND(0.034)	**1.5**	**0.332**	**0.639**
Aroclor-1262	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Aroclor-1268	ND(0.045) [ND(0.044)]	ND(0.043)	ND(0.042)	ND(0.034)	ND(0.095)	ND(0.04) [ND(0.041)]	ND(0.034)	ND(0.04)	ND(0.034)	ND(0.08)	ND(0.047)	ND(0.046)
Total PCBs	**0.256 [0.238]**	**0.0205 J**	**0.2**	ND	**1.03**	**0.0552 [0.0846]**	ND	**0.282**	ND	**1.5**	**0.332**	**0.639**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-71	T11A17-SL-72	T11A17-SL-72	T11A17-SL-73	T11A17-SL-73	T11A17-SL-73	T11A17-SL-74	T11A17-SL-74	T11A17-SL-74	T11A17-SL-74	T11A17-SL-75	T11A17-SL-75	T11A17-SL-76
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	12 - 18	18 - 20	0 - 6	6 - 11	0 - 6
Date:	11/10/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17
PCBs													
Aroclor 1016	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1221	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1232	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1242	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1248	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1254	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor 1260	**0.333**	**0.104**	**0.0692**	**0.167**	**0.0331 J**	**0.0222 J**	**1.26**	**68.8**	**42.5**	**27.9**	**129**	**258**	**0.967**
Aroclor-1262	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Aroclor-1268	ND(0.039)	ND(0.044)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.039)	ND(0.037)	ND(0.05)	ND(0.043)	ND(0.035)	ND(0.061)	ND(0.057)	ND(0.04)
Total PCBs	**0.333**	**0.104**	**0.0692**	**0.167**	**0.0331 J**	**0.0222 J**	**1.26**	**68.8**	**42.5**	**27.9**	**129**	**258**	**0.967**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37,100	39,400	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-77 0 - 6 11/13/17	T11A17-SL-77 6 - 12 11/13/17	T11A17-SL-77 12 - 18 11/13/17	T11A17-SL-77 18 - 24 11/13/17	T11A17-SL-78 0 - 6 11/13/17	T11A17-SL-78 6 - 12 11/13/17	T11A17-SL-78 12 - 18 11/13/17	T11A17-SL-79 0 - 6 11/13/17	T11A17-SL-79 6 - 12 11/13/17	T11A17-SL-79 12 - 18 11/13/17	T11A17-SL-8 0 - 6 11/07/17	T11A17-SL-8 6 - 12 11/07/17
PCBs												
Aroclor 1016	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1221	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1232	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1242	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1248	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1254	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor 1260	**0.07**	**0.0578**	**0.101 [0.0285 J]**	ND(0.039)	**0.236**	**0.104**	ND(0.037)	**0.215**	**0.0931 [0.119]**	**0.45**	**0.0962**	ND(0.034)
Aroclor-1262	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Aroclor-1268	ND(0.036)	ND(0.034)	ND(0.039) [ND(0.036)]	ND(0.039)	ND(0.045)	ND(0.041)	ND(0.037)	ND(0.041)	ND(0.036) [ND(0.036)]	ND(0.035)	ND(0.036)	ND(0.034)
Total PCBs	**0.07**	**0.0578**	**0.101 [0.0285 J]**	ND	**0.236**	**0.104**	ND	**0.215**	**0.0931 [0.119]**	**0.45**	**0.0962**	ND
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	14,700	4,660 [4,800]	7,140	8,920	3,460

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-80	T11A17-SL-80	T11A17-SL-81	T11A17-SL-81	T11A17-SL-82	T11A17-SL-82	T11A17-SL-82	T11A17-SL-83	T11A17-SL-83	T11A17-SL-84	T11A17-SL-84	T11A17-SL-85
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 17	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/14/17
PCBs												
Aroclor 1016	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1221	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1232	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1242	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1248	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1254	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor 1260	**0.31**	**0.235**	**0.399**	**0.0138 J**	**0.769**	**1.42**	**3.6**	**0.198**	**0.0217 J**	**0.243**	**0.127**	**0.826 [0.898]**
Aroclor-1262	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Aroclor-1268	ND(0.039)	ND(0.04)	ND(0.04)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.042)	ND(0.046)	ND(0.04)	ND(0.059)	ND(0.043)	ND(0.045) [ND(0.041)]
Total PCBs	**0.31**	**0.235**	**0.399**	**0.0138 J**	**0.769**	**1.42**	**3.6**	**0.198**	**0.0217 J**	**0.243**	**0.127**	**0.826 [0.898]**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A17-SL-85**	**T11A17-SL-85**	**T11A17-SL-85**	**T11A17-SL-86**	**T11A17-SL-86**	**T11A17-SL-87**	**T11A17-SL-87**	**T11A17-SL-88**	**T11A17-SL-88**	**T11A17-SL-89**	**T11A17-SL-89**	**T11A17-SL-9**	**T11A17-SL-9**
Sample Depth:	**6 - 12**	**12 - 18**	**18 - 22**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 10**
Date:	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/07/17**	**11/07/17**
PCBs													
Aroclor 1016	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1221	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1232	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1242	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1248	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1254	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor 1260	**3.19**	**214**	**348**	**0.23**	**0.247**	**0.0869**	**0.142**	ND(0.035)	**0.521**	**0.258**	**0.19**	**49.4**	**10.9**
Aroclor-1262	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Aroclor-1268	ND(0.034)	ND(0.036)	ND(0.035)	ND(0.04)	ND(0.044)	ND(0.034)	ND(0.037)	ND(0.035)	ND(0.036)	ND(0.042)	ND(0.04)	ND(0.059)	ND(0.046)
Total PCBs	**3.19**	**214**	**348**	**0.23**	**0.247**	**0.0869**	**0.142**	ND	**0.521**	**0.258**	**0.19**	**49.4**	**10.9**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	6,790	5,550	NA	NA	NA	NA	74,800	61,400

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-90	T11A17-SL-90	T11A17-SL-91	T11A17-SL-91	T11A17-SL-92	T11A17-SL-92	T11A17-SL-93	T11A17-SL-93	T11A17-SL-94	T11A17-SL-94	T11A17-SL-95	T11A17-SL-95	T11A17-SL-96
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17	11/14/17
PCBs													
Aroclor 1016	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1221	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1232	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1242	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1248	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1254	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor 1260	**0.14**	**0.0486**	**0.423**	**0.442**	**0.682**	**0.197**	**0.242**	**0.0447**	**0.77**	**0.321**	**0.175**	**0.0183 J**	**0.675**
Aroclor-1262	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Aroclor-1268	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.038)	ND(0.038)	ND(0.037)	ND(0.04)	ND(0.035)	ND(0.041)	ND(0.039)	ND(0.036)	ND(0.036)	ND(0.043)
Total PCBs	**0.14**	**0.0486**	**0.423**	**0.442**	**0.682**	**0.197**	**0.242**	**0.0447**	**0.77**	**0.321**	**0.175**	**0.0183 J**	**0.675**
Miscellaneous													
TOC	NA	NA	NA	NA	NA	NA	NA	NA	25,700	16,700	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-96	T11A17-SL-97	T11A17-SL-97	T11A17-SL-98	T11A17-SL-98	T11A17-SL-98	T11A17-SL-99	T11A17-SL-99	T11A17-SL-J-11	T11A17-SL-J-11	T11A17-SL-J-12	T11A17-SL-J-12
Sample Depth:	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 15**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**
Date:	**11/14/17**	**11/16/17**	**11/16/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/14/17**	**11/16/17**	**11/16/17**	**11/16/17**	**11/16/17**
PCBs												
Aroclor 1016	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1221	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1232	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1242	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1248	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1254	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor 1260	**0.336**	**0.124**	**0.0139 J**	**0.108**	**0.0231 J**	ND(0.035)	**0.174**	**0.421**	**0.0128 J**	ND(0.039)	**8.01**	**3.46**
Aroclor-1262	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Aroclor-1268	ND(0.037)	ND(0.045)	ND(0.035)	ND(0.04)	ND(0.039)	ND(0.035)	ND(0.038)	ND(0.036)	ND(0.037)	ND(0.039)	ND(0.042)	ND(0.041)
Total PCBs	**0.336**	**0.124**	**0.0139 J**	**0.108**	**0.0231 J**	ND	**0.174**	**0.421**	**0.0128 J**	ND	**8.01**	**3.46**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-J-12	T11A17-SL-J-13	T11A17-SL-J-13	T11A17-SL-J-14	T11A17-SL-J-14	T11A17-SL-J-15	T11A17-SL-J-15	T11A17-SL-J-16	T11A17-SL-J-16	T11A17-SL-JT-10	T11A17-SL-JT-10
Sample Depth:	12 - 17	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/16/17	11/14/17	11/14/17
PCBs											
Aroclor 1016	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1221	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1232	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1242	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1248	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1254	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor 1260	**0.144**	**0.171**	**0.0402 J**	**0.128**	**0.0665**	**0.247**	**0.166**	**0.0928**	**0.011 J**	**0.659**	**0.0918 [0.0569]**
Aroclor-1262	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Aroclor-1268	ND(0.036)	ND(0.039)	ND(0.041)	ND(0.039)	ND(0.038)	ND(0.05)	ND(0.041)	ND(0.033)	ND(0.033)	ND(0.042)	ND(0.042) [ND(0.043)]
Total PCBs	**0.144**	**0.171**	**0.0402 J**	**0.128**	**0.0665**	**0.247**	**0.166**	**0.0928**	**0.011 J**	**0.659**	**0.0918 [0.0569]**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A17-SL-JT-10 12 - 18 11/14/17	T11A17-SL-JT-11 0 - 6 11/16/17	T11A17-SL-JT-11 6 - 12 11/16/17	T11A17-SL-JT-12 0 - 6 11/16/17	T11A17-SL-JT-12 6 - 12 11/16/17	T11A17-SL-JT-12 12 - 18 11/16/17	T11A17-SL-JT-13 0 - 6 11/16/17	T11A17-SL-JT-13 6 - 12 11/16/17	T11A17-SL-JT-14 0 - 6 11/16/17	T11A17-SL-JT-14 6 - 11 11/16/17
PCBs										
Aroclor 1016	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1221	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1232	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1242	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1248	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1254	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor 1260	**0.152**	**0.631**	**0.16**	**0.799**	**3.37 [3.49]**	**0.738**	**0.524**	**0.202**	**10.4**	**10.3**
Aroclor-1262	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Aroclor-1268	ND(0.034)	ND(0.059)	ND(0.042)	ND(0.045)	ND(0.039) [ND(0.04)]	ND(0.04)	ND(0.038)	ND(0.04)	ND(0.046)	ND(0.041)
Total PCBs	**0.152**	**0.631**	**0.16**	**0.799**	**3.37 [3.49]**	**0.738**	**0.524**	**0.202**	**10.4**	**10.3**
Miscellaneous										
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-JT-15	T11A17-SL-JT-15	T11A17-SL-JT-1A	T11A17-SL-JT-1A	T11A17-SL-JT-1B	T11A17-SL-JT-1B	T11A17-SL-JT-2	T11A17-SL-JT-2	T11A17-SL-JT-2	T11A17-SL-JT-3	T11A17-SL-JT-3
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 10	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12
Date:	11/16/17	11/16/17	11/07/17	11/07/17	11/08/17	11/08/17	11/09/17	11/09/17	11/09/17	11/09/17	11/09/17
PCBs											
Aroclor 1016	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1221	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1232	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1242	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1248	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1254	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor 1260	**0.433**	**0.249**	**0.196**	**0.172**	**0.0807**	**0.0414**	**18.2**	**41.9**	**9.38**	**7,510**	**180**
Aroclor-1262	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Aroclor-1268	ND(0.037)	ND(0.037)	ND(0.038)	ND(0.039)	ND(0.038)	ND(0.036)	ND(0.13)	ND(0.041)	ND(0.041)	ND(0.15)	ND(0.04)
Total PCBs	**0.433**	**0.249**	**0.196**	**0.172**	**0.0807**	**0.0414**	**18.2**	**41.9**	**9.38**	**7,510**	**180**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-JT-3	T11A17-SL-JT-3	T11A17-SL-JT-4	T11A17-SL-JT-4	T11A17-SL-JT-4	T11A17-SL-JT-5	T11A17-SL-JT-5	T11A17-SL-JT-6	T11A17-SL-JT-6	T11A17-SL-JT-6	T11A17-SL-JT-7
Sample Depth:	12 - 18	18 - 21	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6
Date:	11/09/17	11/09/17	11/10/17	11/10/17	11/10/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17	11/13/17
PCBs											
Aroclor 1016	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1221	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1232	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1242	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1248	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1254	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor 1260	**0.755**	**0.153**	**0.118**	**0.0349 J**	**2.16**	**2.51**	**0.546**	**0.118**	**0.129**	**0.135**	**0.122**
Aroclor-1262	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Aroclor-1268	ND(0.038)	ND(0.036)	ND(0.041)	ND(0.041)	ND(0.039)	ND(0.044)	ND(0.04)	ND(0.04)	ND(0.037)	ND(0.045)	ND(0.037)
Total PCBs	**0.755**	**0.153**	**0.118**	**0.0349 J**	**2.16**	**2.51**	**0.546**	**0.118**	**0.129**	**0.135**	**0.122**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A17-SL-JT-7	T11A17-SL-JT-8	T11A17-SL-JT-8	T11A17-SL-JT-9	T11A17-SL-JT-9	T11A18-SED-152	T11A18-SED-152	T11A18-SED-154	T11A18-SED-154	T11A18-SED-155	T11A18-SED-155
Sample Depth:	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 9	0 - 6	6 - 12	0 - 6	6 - 12
Date:	11/13/17	11/14/17	11/14/17	11/14/17	11/14/17	01/15/18	01/15/18	01/15/18	01/17/18	01/15/18	01/15/18
PCBs											
Aroclor 1016	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1221	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1232	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1242	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1248	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1254	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor 1260	**0.0542**	**2.45**	**0.313**	**0.542**	**0.0906**	**1.87**	**3.26**	**0.334**	**0.0762**	**1.07**	**0.78**
Aroclor-1262	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Aroclor-1268	ND(0.036)	ND(0.047)	ND(0.038)	ND(0.04)	ND(0.041)	ND(0.1)	ND(0.04)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.037)
Total PCBs	**0.0542**	**2.45**	**0.313**	**0.542**	**0.0906**	**1.87**	**3.26**	**0.334**	**0.0762**	**1.07**	**0.78**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A18-SED-155**	**T11A18-SED-163**	**T11A18-SED-163**	**T11A18-SED-163**	**T11A18-SED-167**	**T11A18-SED-167**	**T11A18-SED-187**	**T11A18-SED-187**	**T11A18-SL-145**	**T11A18-SL-145**	**T11A18-SL-145**
Sample Depth:	**12 - 15**	**0 - 6**	**6 - 12**	**12 - 15**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**
Date:	**01/17/18**	**01/17/18**	**01/17/18**	**01/17/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/15/18**	**01/15/18**	**01/15/18**
PCBs											
Aroclor 1016	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1221	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1232	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1242	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1248	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1254	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor 1260	**0.232**	**0.386**	**0.541**	**0.0623**	ND(0.037)	ND(0.037) [0.0139 J]	**4.64**	**1 [0.525]**	**6.15**	**2.83**	**0.639**
Aroclor-1262	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Aroclor-1268	ND(0.034)	ND(0.041)	ND(0.037)	ND(0.035)	ND(0.037)	ND(0.037) [ND(0.038)]	ND(0.042)	ND(0.036) [ND(0.039)]	ND(0.041)	ND(0.036)	ND(0.037)
Total PCBs	**0.232**	**0.386**	**0.541**	**0.0623**	ND	ND [0.0139 J]	**4.64**	**1 [0.525]**	**6.15**	**2.83**	**0.639**
Miscellaneous											
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A18-SL-146	T11A18-SL-146	T11A18-SL-147	T11A18-SL-147	T11A18-SL-147	T11A18-SL-148	T11A18-SL-148	T11A18-SL-149	T11A18-SL-149	T11A18-SL-150	T11A18-SL-150	T11A18-SL-151
Sample Depth:	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6
Date:	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18	01/15/18
PCBs												
Aroclor 1016	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1221	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1232	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1242	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1248	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1254	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor 1260	**0.236 [0.16]**	**0.0393 J**	**10.5**	**2.14**	**1.07**	**3.29**	**3.96**	**0.0737 J**	**0.0861**	**0.393**	**0.0372**	**0.128**
Aroclor-1262	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Aroclor-1268	ND(0.11) [ND(0.055)]	ND(0.042)	ND(0.1)	ND(0.039)	ND(0.034)	ND(0.077)	ND(0.46)	ND(0.1)	ND(0.05)	ND(0.13)	ND(0.037)	ND(0.046)
Total PCBs	**0.236 [0.16]**	**0.0393 J**	**10.5**	**2.14**	**1.07**	**3.29**	**3.96**	**0.0737 J**	**0.0861**	**0.393**	**0.0372**	**0.128**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A18-SL-151 6 - 12 01/15/18	T11A18-SL-153 0 - 6 01/16/18	T11A18-SL-153 6 - 12 01/16/18	T11A18-SL-153 12 - 18 01/16/18	T11A18-SL-156 0 - 6 01/15/18	T11A18-SL-156 6 - 12 01/15/18	T11A18-SL-157 0 - 6 01/15/18	T11A18-SL-157 6 - 12 01/15/18	T11A18-SL-158 0 - 6 01/15/18	T11A18-SL-158 6 - 12 01/15/18	T11A18-SL-159 0 - 6 01/16/18	T11A18-SL-159 6 - 12 01/16/18
PCBs												
Aroclor 1016	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1221	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1232	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1242	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1248	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1254	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor 1260	**0.0225 J**	**0.21**	**0.0773**	**0.0182 J**	**0.0753**	**0.0185 J**	**0.273**	ND(0.039)	**0.0915 J**	**0.118**	**0.0381 J**	**0.0386 J**
Aroclor-1262	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Aroclor-1268	ND(0.038)	ND(0.043)	ND(0.039)	ND(0.035)	ND(0.05)	ND(0.043)	ND(0.088)	ND(0.039)	ND(0.11)	ND(0.042)	ND(0.04)	ND(0.039)
Total PCBs	**0.0225 J**	**0.21**	**0.0773**	**0.0182 J**	**0.0753**	**0.0185 J**	**0.273**	ND	**0.0915 J**	**0.118**	**0.0381 J**	**0.0386 J**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A18-SL-160**	**T11A18-SL-160**	**T11A18-SL-161**	**T11A18-SL-161**	**T11A18-SL-162**	**T11A18-SL-162**	**T11A18-SL-164**	**T11A18-SL-164**	**T11A18-SL-164**	**T11A18-SL-165**	**T11A18-SL-165**	**T11A18-SL-165**
Sample Depth:	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**	**12 - 18**
Date:	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**
PCBs												
Aroclor 1016	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1221	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1232	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1242	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1248	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1254	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor 1260	**0.652**	**0.286**	**0.873**	**0.344**	**0.485**	**0.507**	**0.102**	ND(0.039)	**0.0297 J**	**16.9**	**13.4**	**0.046**
Aroclor-1262	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Aroclor-1268	ND(0.051)	ND(0.036)	ND(0.037)	ND(0.038)	ND(0.047)	ND(0.042)	ND(0.044)	ND(0.039)	ND(0.04)	ND(0.052)	ND(0.049)	ND(0.04)
Total PCBs	**0.652**	**0.286**	**0.873**	**0.344**	**0.485**	**0.507**	**0.102**	ND	**0.0297 J**	**16.9**	**13.4**	**0.046**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A18-SL-165 18 - 24 01/16/18	T11A18-SL-166 0 - 6 01/16/18	T11A18-SL-166 6 - 12 01/16/18	T11A18-SL-168 0 - 6 01/16/18	T11A18-SL-168 6 - 12 01/16/18	T11A18-SL-169 0 - 6 01/16/18	T11A18-SL-169 6 - 12 01/16/18	T11A18-SL-170 0 - 6 01/16/18	T11A18-SL-170 6 - 12 01/16/18	T11A18-SL-171 0 - 6 01/16/18	T11A18-SL-171 6 - 12 01/16/18	T11A18-SL-172 0 - 6 01/16/18
PCBs												
Aroclor 1016	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1221	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1232	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1242	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1248	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1254	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor 1260	ND(0.038)	**1.33**	**0.217**	**0.111 [0.0913]**	ND(0.038)	**1.55**	**0.858**	**1.12**	**0.0447**	**0.57**	**0.151**	**0.201**
Aroclor-1262	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Aroclor-1268	ND(0.038)	ND(0.056)	ND(0.04)	ND(0.055) [ND(0.046)]	ND(0.038)	ND(0.31)	ND(0.054)	ND(0.11)	ND(0.043)	ND(0.07)	ND(0.039)	ND(0.096)
Total PCBs	ND	**1.33**	**0.217**	**0.111 [0.0913]**	ND	**1.55**	**0.858**	**1.12**	**0.0447**	**0.57**	**0.151**	**0.201**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A18-SL-172 6 - 12 01/16/18	T11A18-SL-173 0 - 6 01/16/18	T11A18-SL-173 6 - 12 01/16/18	T11A18-SL-174 0 - 6 01/16/18	T11A18-SL-174 6 - 12 01/16/18	T11A18-SL-175 0 - 6 01/16/18	T11A18-SL-175 6 - 12 01/16/18	T11A18-SL-176 0 - 6 01/16/18	T11A18-SL-176 6 - 12 01/16/18	T11A18-SL-177 0 - 6 01/16/18	T11A18-SL-177 6 - 12 01/16/18	T11A18-SL-177 12 - 18 01/16/18
PCBs												
Aroclor 1016	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1221	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1232	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1242	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1248	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1254	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor 1260	**0.0569**	**0.301**	**0.0409 J**	**0.216**	**0.101**	ND(0.091)	**0.461**	**0.299 J**	**0.11**	**0.172**	**0.0941**	**0.0392**
Aroclor-1262	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Aroclor-1268	ND(0.039)	ND(0.059)	ND(0.049)	ND(0.048)	ND(0.042)	ND(0.091)	ND(0.042)	ND(0.3)	ND(0.052)	ND(0.071)	ND(0.044)	ND(0.035)
Total PCBs	**0.0569**	**0.301**	**0.0409 J**	**0.216**	**0.101**	ND	**0.461**	**0.299 J**	**0.11**	**0.172**	**0.0941**	**0.0392**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A18-SL-178	T11A18-SL-178	T11A18-SL-178	T11A18-SL-179	T11A18-SL-179	T11A18-SL-180	T11A18-SL-180	T11A18-SL-181	T11A18-SL-181	T11A18-SL-181	T11A18-SL-181	T11A18-SL-182
Sample Depth:	0 - 6	6 - 12	12 - 18	0 - 6	6 - 12	0 - 6	6 - 12	0 - 6	6 - 12	12 - 18	18 - 24	0 - 6
Date:	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18
PCBs												
Aroclor 1016	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1221	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1232	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1242	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1248	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1254	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor 1260	**0.0533**	**0.032 J**	ND(0.037)	**0.358**	**0.147**	**0.0974**	**0.0241 J**	**0.0396 J**	**0.0321 J**	**0.0487**	ND(0.033)	**9.57**
Aroclor-1262	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Aroclor-1268	ND(0.046)	ND(0.043)	ND(0.037)	ND(0.044)	ND(0.044)	ND(0.038)	ND(0.035)	ND(0.041)	ND(0.036)	ND(0.034)	ND(0.033)	ND(0.13)
Total PCBs	**0.0533**	**0.032 J**	ND	**0.358**	**0.147**	**0.0974**	**0.0241 J**	**0.0396 J**	**0.0321 J**	**0.0487**	ND	**9.57**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A18-SL-182**	**T11A18-SL-182**	**T11A18-SL-182**	**T11A18-SL-183**	**T11A18-SL-183**	**T11A18-SL-183**	**T11A18-SL-183**	**T11A18-SL-184**	**T11A18-SL-184**	**T11A18-SL-184**	**T11A18-SL-184**	**T11A18-SL-185**
Sample Depth:	**6 - 12**	**12 - 18**	**18 - 24**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 21**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 23**	**0 - 6**
Date:	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**
PCBs												
Aroclor 1016	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor 1221	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor 1232	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor 1242	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor 1248	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	**1.55**	**0.861**	ND(0.044)
Aroclor 1254	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor 1260	**93.8**	**3.6**	**37**	**0.39**	**0.0866**	**0.417**	**2.28**	**11.8**	**12.1**	**2.66**	**0.649**	**3.07**
Aroclor-1262	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Aroclor-1268	ND(0.038)	ND(0.034)	ND(0.034)	ND(0.049)	ND(0.044)	ND(0.036)	ND(0.037)	ND(0.047)	ND(0.051)	ND(0.043)	ND(0.044)	ND(0.044)
Total PCBs	**93.8**	**3.6**	**37**	**0.39**	**0.0866**	**0.417**	**2.28**	**11.8**	**12.1**	**4.21**	**1.51**	**3.07**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	**T11A18-SL-185**	**T11A18-SL-186**	**T11A18-SL-186**	**T11A18-SL-186**	**T11A18-SL-186**	**T11A18-SL-188**	**T11A18-SL-188**	**T11A18-SL-188**	**T11A18-SL-189**	**T11A18-SL-189**	**T11A18-SL-189**	**T11A18-SL-190**
Sample Depth:	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**	**6 - 12**	**12 - 18**	**0 - 6**
Date:	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**	**01/16/18**
PCBs												
Aroclor 1016	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1221	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1232	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1242	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1248	**0.401**	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1254	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor 1260	**0.233**	**4.01**	**1.24**	**0.114**	**1.14**	**15.4**	**28.8**	**6.81**	**0.17**	**0.298**	**0.0447**	**0.234**
Aroclor-1262	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Aroclor-1268	ND(0.039)	ND(0.055)	ND(0.052)	ND(0.044)	ND(0.041)	ND(0.055)	ND(0.047)	ND(0.044)	ND(0.047)	ND(0.045)	ND(0.037)	ND(0.042)
Total PCBs	**0.634**	**4.01**	**1.24**	**0.114**	**1.14**	**15.4**	**28.8**	**6.81**	**0.17**	**0.298**	**0.0447**	**0.234**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A18-SL-190	T11A18-SL-190	T11A18-SL-190	T11A18-SL-191	T11A18-SL-191	T11A18-SL-191	T11A18-SL-191	T11A18-SL-192	T11A18-SL-192	T11A18-SL-192	T11A18-SL-192	T11A18-SL-193
Sample Depth:	6 - 12	12 - 18	18 - 24	0 - 6	6 - 12	12 - 18	18 - 22	0 - 6	6 - 12	12 - 18	18 - 21	0 - 6
Date:	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/16/18	01/17/18
PCBs												
Aroclor 1016	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1221	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1232	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1242	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1248	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1254	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor 1260	**0.524**	**6.8 [2.63]**	**38.2**	**0.205**	**0.125**	**0.447**	**0.0773**	**0.734**	**0.74**	**0.958**	**4.11**	**0.641**
Aroclor-1262	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Aroclor-1268	ND(0.039)	ND(0.042) [ND(0.039)]	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.035)	ND(0.036)	ND(0.18)	ND(0.042)	ND(0.037)	ND(0.037)	ND(0.064)
Total PCBs	**0.524**	**6.8 [2.63]**	**38.2**	**0.205**	**0.125**	**0.447**	**0.0773**	**0.734**	**0.74**	**0.958**	**4.11**	**0.641**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location: Sample Depth: Date:	T11A18-SL-193 6 - 12 01/17/18	T11A18-SL-194 0 - 6 01/17/18	T11A18-SL-194 6 - 12 01/17/18	T11A18-SL-195 0 - 6 01/17/18	T11A18-SL-195 6 - 12 01/17/18	T11A18-SL-195 12 - 18 01/17/18	T11A18-SL-196 0 - 6 01/17/18	T11A18-SL-196 6 - 12 01/17/18	T11A18-SL-197 0 - 6 01/17/18	T11A18-SL-197 6 - 12 01/17/18	T11A18-SL-197 12 - 15 01/17/18	T11A18-SL-198 0 - 6 01/17/18
PCBs												
Aroclor 1016	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1221	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1232	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1242	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1248	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1254	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor 1260	**0.352**	**0.856**	**0.208**	**0.36**	**0.0991**	**0.0477 [0.0607]**	**0.141**	**0.026 J**	**0.335**	**1.02**	**0.0165 J**	**1.53**
Aroclor-1262	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Aroclor-1268	ND(0.046)	ND(0.058)	ND(0.046)	ND(0.072)	ND(0.076)	ND(0.039) [ND(0.039)]	ND(0.1)	ND(0.044)	ND(0.086)	ND(0.045)	ND(0.042)	ND(0.13)
Total PCBs	**0.352**	**0.856**	**0.208**	**0.36**	**0.0991**	**0.0477 [0.0607]**	**0.141**	**0.026 J**	**0.335**	**1.02**	**0.0165 J**	**1.53**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A18-SL-198	T11A18-SL-207	T11A18-SL-207	T11A18-SL-208	T11A18-SL-208	T11A18-SL-208	T11A18-SL-208	T11A18-SL-209	T11A18-SL-209	T11A18-SL-209	T11A18-SL-209	T11A18-SL-210
Sample Depth:	**6 - 12**	**0 - 6**	**6 - 12**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 20**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 21**	**0 - 6**
Date:	**01/17/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**	**03/27/18**
PCBs												
Aroclor 1016	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor 1221	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor 1232	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor 1242	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor 1248	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	**0.57**	**0.38**	ND(0.041)	ND(0.046)
Aroclor 1254	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor 1260	**0.76**	**0.245**	**0.149**	**0.127**	ND(0.041)	**0.0564**	ND(0.039)	**1.65**	**1.47**	**0.929**	**14.3**	**1.8**
Aroclor-1262	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Aroclor-1268	ND(0.045)	ND(0.049)	ND(0.037)	ND(0.044)	ND(0.041)	ND(0.043)	ND(0.039)	ND(0.041)	ND(0.042)	ND(0.045)	ND(0.041)	ND(0.046)
Total PCBs	**0.76**	**0.245**	**0.149**	**0.127**	ND	**0.0564**	ND	**1.65**	**2.04**	**1.309**	**14.3**	**1.8**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample Location:	T11A18-SL-210	T11A18-SL-210	T11A18-SL-210	T11A18-SL-210A	T11A18-SL-210A	T11A18-SL-210A	T11A18-SL-211	T11A18-SL-211	T11A18-SL-211	T11A18-SL-211	T11A18-SL-212	T11A18-SL-212
Sample Depth:	6 - 12	12 - 18	18 - 21	0 - 6	6 - 12	12 - 16	0 - 6	6 - 12	12 - 18	18 - 20	0 - 6	6 - 12
Date:	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18
PCBs												
Aroclor 1016	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1221	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1232	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1242	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1248	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1254	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor 1260	**3.04**	**2.91**	**2.01**	**0.145**	**0.103**	**0.441**	**0.246**	**0.0569**	ND(0.045)	ND(0.042)	**0.713**	**0.472**
Aroclor-1262	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Aroclor-1268	ND(0.048)	ND(0.038)	ND(0.035)	ND(0.037)	ND(0.037)	ND(0.035)	ND(0.043)	ND(0.043)	ND(0.045)	ND(0.042)	ND(0.062)	ND(0.042)
Total PCBs	**3.04**	**2.91**	**2.01**	**0.145**	**0.103**	**0.441**	**0.246**	**0.0569**	ND	ND	**0.713**	**0.472**
Miscellaneous												
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Data for 2017 and 2018 Samples
Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location:	T11A18-SL-212	T11A18-SL-213	T11A18-SL-213	T11A18-SL-213	T11A18-SL-213	T11A18-SL-214	T11A18-SL-214	T11A18-SL-215	T11A18-SL-215
Sample Depth:	12 - 18	0 - 6	6 - 12	12 - 18	18 - 21	0 - 6	6 - 12	0 - 6	6 - 12
Date:	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18	03/27/18
PCBs									
Aroclor 1016	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1221	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1232	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1242	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1248	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1254	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Aroclor 1260	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	**0.146**	ND(0.038)	**0.993**	**0.18**
Aroclor-1262	**0.0095 J**	**0.0963**	**0.0701**	**0.0102 J**	**0.0418**	ND(0.041)	**0.0078 J**	ND(0.042)	ND(0.038)
Aroclor-1268	ND(0.035)	ND(0.039)	ND(0.04)	ND(0.036)	ND(0.037)	ND(0.041)	ND(0.038)	ND(0.042)	ND(0.038)
Total PCBs	**0.0095 J**	**0.0963**	**0.0701**	**0.0102 J**	**0.0418**	**0.146**	**0.0078 J**	**0.993**	**0.18**
Miscellaneous									
TOC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Definitions:
Lab Qualifiers:
J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
ND - The compound was analyzed for but not detected. The associated value is the compound quantitation/reporting limit.
Sample IDs: MRP - Former Mead Road Pond Area; NWDD - Northwest Drainage Ditch; T11A - Tributary T11A.
Matrix: SL - Soil; SED - Sediment.
Constituents: PCB - Polychlorinated Biphenyls; TOC - Total Organic Carbon.
Other: NA - Not sampled for the given constituent.

Notes:
1. Samples collected by Arcadis December 2017 and January and March 2018 and submitted to SGS Accutest (Dayton) for analysis.
2. All sample depths are presented in inches. All sample results are presented in parts per million.
3. Samples results presented in brackets ("[ ]") are for duplicate samples.
4. Total PCBs are the sum of individual Aroclors or Congeners, as appropriate.

Table 8
Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Matrix	Sample Interval (inches)[1]				
		0 - 6	6 - 12	12 - 18	18 - 24	24+
Tributary T11A						
T11A17-SL-1	Soil	0.06	Refusal	Refusal	Refusal	Refusal
T11A17-SL-2	Soil	0.15	ND	X	Refusal	Refusal
T11A17-SL-3	Soil	9.34	1.28	1.17	Refusal	Refusal
T11A17-SL-4	Soil	11.9	3.38	Refusal	Refusal	Refusal
T11A18-SL-148	Soil	3.29	3.96	Refusal	Refusal	Refusal
T11A18-SL-207	Soil	0.25	0.15	X	Refusal	Refusal
T11A17-SL-5	Soil	0.14	ND	X	Refusal	Refusal
T11A17-SL-6	Soil	0.16	ND	ND	Refusal	Refusal
T11A17-SL-7	Soil	0.28	ND	X	Refusal	Refusal
T11A17-SL-8	Soil	0.10	ND	X	Refusal	Refusal
T11A17-SL-9	Soil	49.4	10.9	Refusal	Refusal	Refusal
T11A18-SL-145	Soil	6.15	2.83	0.64	Refusal	Refusal
T11A18-SL-146	Soil	0.20	0.04	X	Refusal	Refusal
T11A18-SL-147	Soil	10.5	2.14	1.07	Refusal	Refusal
T11A17-SL-10	Soil	36.7	114	Refusal	Refusal	Refusal
T11A18-SED-152	Sediment	1.87	3.26	Refusal	Refusal	Refusal
T11A18-SL-153	Soil	0.21	0.08	0.02	Refusal	Refusal
T11A17-SL-11	Soil	0.20	ND	Refusal	Refusal	Refusal
T11A17-SL-12	Soil	0.24	ND	X	Refusal	Refusal
T11A18-SL-150	Soil	0.39	0.04	X	X	Refusal
T11A17-SL-13	Soil	314	10.8	Refusal	Refusal	Refusal
T11A18-SED-154	Sediment	0.33	0.08	Refusal	Refusal	Refusal
T11A17-SL-14	Soil	0.19	ND	Refusal	Refusal	Refusal
T11A17-SL-15	Soil	0.48	0.09	Refusal	Refusal	Refusal
T11A17-SL-16	Soil	0.29	0.05	0.02	Refusal	Refusal
T11A17-SL-17	Soil	423	60.8	10.9	Refusal	Refusal
T11A18-SED-155	Sediment	1.07	0.78	0.23	Refusal	Refusal
T11A17-SL-18	Soil	0.19	0.04	0.03	Refusal	Refusal
T11A17-SL-19	Soil	0.29	0.02	ND	Refusal	Refusal
T11A17-SL-20	Soil	0.07	ND	Refusal	Refusal	Refusal
T11A17-SL-21	Soil	0.33	0.12	X	X	Refusal
T11A17-SL-22	Soil	ND	ND	X	Refusal	Refusal
T11A18-SL-156	Soil	0.02	0.08	X	X	X
T11A17-SL-23	Soil	0.12	0.04	X	Refusal	Refusal
T11A17-SL-24	Soil	4.55	2.27	ND	X	Refusal
T11A18-SL-157	Soil	0.27	ND	X	X	Refusal
T11A17-SL-25	Soil	0.06	0.02	X	Refusal	Refusal
T11A17-SL-26	Soil	0.23	0.91	X	X	Refusal
T11A18-SL-158	Soil	0.09	0.12	X	Refusal	Refusal
T11A17-SL-27	Soil	0.52	0.52	X	X	Refusal
T11A17-SL-28	Soil	10.4	0.27	X	Refusal	Refusal
T11A18-SL-159	Soil	0.04	0.04	X	Refusal	Refusal
T11A17-SL-29	Soil	4.96	1.57	Refusal	Refusal	Refusal
T11A18-SL-162	Soil	0.49	0.51	X	X	Refusal
T11A17-SL-30	Soil	0.10	0.02	X	X	Refusal
T11A18-SL-173	Soil	0.30	0.04	X	X	Refusal
T11A17-SED-31	Sediment	2.91	Refusal	Refusal	Refusal	Refusal
T11A18-SL-171	Soil	0.57	0.15	X	Refusal	Refusal
T11A17-SL-32	Soil	1.91	0.33	Refusal	Refusal	Refusal
T11A18-SL-166	Soil	1.33	0.22	X	X	Refusal
T11A18-SL-208	Soil	0.13	ND	0.0564	ND	Refusal
T11A17-SL-33	Soil	35.3	27.9	Refusal	Refusal	Refusal
T11A18-SL-160	Soil	0.65	0.29	X	X	X
T11A18-SL-161	Soil	0.87	0.34	X	Refusal	Refusal
T11A17-SL-34	Soil	4.05	0.54	0.06	Refusal	Refusal

Table 8
Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Matrix	Sample Interval (inches)[1]				
		0 - 6	6 - 12	12 - 18	18 - 24	24+
Tributary T11A (continued)						
T11A18-SL-172	Soil	0.20	0.06	X	X	Refusal
T11A17-SL-35	Soil	0.76	0.02	X	Refusal	Refusal
T11A17-SL-36	Soil	0.37	0.01	X	X	Refusal
T11A17-SL-37	Soil	0.28	0.08	Refusal	Refusal	Refusal
T11A17-SL-38	Soil	0.29	0.16	X	X	Refusal
T11A17-SL-39	Soil	0.34	ND	X	Refusal	Refusal
T11A17-SED-40	Sediment	1.18	Refusal	Refusal	Refusal	Refusal
T11A17-SL-41	Soil	0.61	0.34	X	X	Refusal
T11A17-SL-42	Soil	0.12	0.01	Refusal	Refusal	Refusal
T11A17-SL-43	Soil	6.32	0.38	X	Refusal	Refusal
T11A18-SL-175	Soil	ND	0.46	X	X	Refusal
T11A17-SL-44	Soil	0.23	0.17	X	Refusal	Refusal
T11A17-SL-45	Soil	0.62	0.11	Refusal	Refusal	Refusal
T11A17-SL-46	Soil	0.74	0.16	Refusal	Refusal	Refusal
T11A17-SL-47	Soil	0.07	0.02	X	Refusal	Refusal
T11A17-SL-48	Soil	0.14	0.07	X	X	Refusal
T11A17-SED-49	Sediment	3.22	Refusal	Refusal	Refusal	Refusal
T11A17-SL-50	Soil	1.33	1.24	0.09	Refusal	Refusal
T11A18-SL-176	Soil	0.30	0.11	X	X	Refusal
T11A17-SL-51	Soil	0.08	0.03	X	X	Refusal
T11A17-SL-52	Soil	9.74	11.1	16.8	Refusal	Refusal
T11A17-SL-53	Soil	0.45	0.21	0.03	X	Refusal
T11A17-SL-54	Soil	6.29	0.32	X	X	Refusal
T11A17-SL-55	Soil	0.34	ND	X	X	Refusal
T11A17-SL-56	Soil	0.21	0.10	ND	X	Refusal
T11A17-SL-57	Soil	1.09	1.07	3.01	Refusal	Refusal
T11A18-SL-177	Soil	0.17	0.09	0.04	X	Refusal
T11A17-SL-58	Soil	14.0	17.6	ND	Refusal	Refusal
T11A17-SL-59	Soil	6.36	0.54	0.05	X	Refusal
T11A17-SL-60	Soil	0.20	0.07	0.02	Refusal	Refusal
T11A17-SL-61	Soil	0.20	0.03	ND	X	Refusal
T11A17-SL-62	Soil	0.29	0.29	0.01	Refusal	Refusal
T11A17-SL-63	Soil	0.06	ND	0.03	Refusal	Refusal
T11A17-SL-64	Soil	ND	ND	ND	ND	Refusal
T11A17-SL-65	Soil	0.29	0.03	X	Refusal	Refusal
T11A17-SL-66	Soil	0.19	0.23	0.12	Refusal	Refusal
T11A17-SL-67	Soil	0.25	0.02	X	Refusal	Refusal
T11A17-SL-68	Soil	0.20	ND	X	X	Refusal
T11A17-SL-69	Soil	1.03	0.07	ND	Refusal	Refusal
T11A17-SL-70	Soil	1.50	0.33	Refusal	Refusal	Refusal
T11A17-SL-71	Soil	0.64	0.33	X	Refusal	Refusal
T11A17-SL-72	Soil	0.10	0.07	X	Refusal	Refusal
T11A17-SL-73	Soil	0.17	0.03	0.02	Refusal	Refusal
T11A17-SL-74	Soil	1.26	68.8	42.5	27.9	Refusal
T11A18-SL-181	Soil	0.04	0.03	0.05	ND	Refusal
T11A18-SL-182	Soil	9.57	93.8	3.60	37.0	Refusal
T11A18-SL-183	Soil	0.39	0.09	0.42	2.28	Refusal
T11A18-SL-184	Soil	11.80	12.10	4.21	1.51	Refusal
T11A18-SL-209	Soil	1.65	2.04	1.31	14.30	Refusal
T11A18-SL-210	Soil	1.80	3.04	2.91	2.01	Refusal
T11A18-SL-210A	Soil	0.15	0.10	0.441	Refusal	Refusal
T11A17-SL-75	Soil	129	258	Refusal	Refusal	Refusal
T11A18-SL-185	Soil	3.07	0.63	X	X	Refusal
T11A18-SL-186	Soil	4.01	1.24	0.11	1.14	Refusal
T11A18-SED-187	Sediment	4.64	0.76	Refusal	Refusal	Refusal

Table 8
Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

		Sample Interval (inches)[1]				
Location Name	**Matrix**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**24+**
Tributary T11A (continued)						
T11A18-SL-188	Soil	15.4	28.8	6.81	Refusal	Refusal
T11A18-SL-211	Soil	0.25	0.06	ND	ND	Refusal
T11A18-SL-212	Soil	0.71	0.47	0.01	X	Refusal
T11A17-SL-76	Soil	0.97	Refusal	Refusal	Refusal	Refusal
T11A17-SL-77	Soil	0.07	0.06	0.06	ND	Refusal
T11A17-SL-78	Soil	0.24	0.10	ND	X	Refusal
T11A17-SL-79	Soil	0.22	0.11	0.45	Refusal	Refusal
T11A17-SL-80	Soil	0.31	0.24	X	Refusal	Refusal
T11A17-SL-81	Soil	0.40	0.01	X	X	Refusal
T11A17-SL-82	Soil	0.77	1.42	3.60	Refusal	Refusal
T11A18-SL-189	Soil	0.17	0.30	0.04	X	Refusal
T11A17-SL-83	Soil	0.20	0.02	X	Refusal	Refusal
T11A17-SL-84	Soil	0.24	0.13	X	Refusal	Refusal
T11A17-SL-85	Soil	0.86	3.19	214	348	Refusal
T11A18-SL-190	Soil	0.23	0.52	4.72	38.2	Refusal
T11A18-SL-213	Soil	0.10	0.07	0.01	0.042	Refusal
T11A18-SL-191	Soil	0.21	0.13	0.45	0.08	Refusal
T11A18-SL-192	Soil	0.73	0.74	0.96	4.11	Refusal
T11A17-SL-86	Soil	0.23	0.25	X	X	Refusal
T11A17-SL-87	Soil	0.09	0.14	X	Refusal	Refusal
T11A17-SL-88	Soil	ND	0.52	X	Refusal	Refusal
T11A17-SL-89	Soil	0.26	0.19	X	Refusal	Refusal
T11A17-SL-90	Soil	0.14	0.05	X	X	Refusal
T11A17-SL-91	Soil	0.42	0.44	X	Refusal	Refusal
T11A17-SL-92	Soil	0.68	0.20	X	Refusal	Refusal
T11A17-SL-93	Soil	0.24	0.04	X	X	Refusal
T11A17-SL-94	Soil	0.77	0.32	X	Refusal	Refusal
T11A17-SL-95	Soil	0.18	0.02	X	Refusal	Refusal
T11A17-SL-96	Soil	0.68	0.34	X	Refusal	Refusal
T11A17-SL-97	Soil	0.12	0.01	X	Refusal	Refusal
T11A17-SL-98	Soil	0.11	0.02	ND	Refusal	Refusal
T11A17-SL-99	Soil	0.17	0.42	X	X	Refusal
T11A17-SL-100	Soil	0.25	0.10	X	Refusal	Refusal
T11A17-SL-102	Soil	0.16	0.09	X	Refusal	Refusal
T11A17-SL-106	Soil	0.19	0.05	X	X	Refusal
T11A17-SL-109	Soil	0.48	0.26	0.21	Refusal	Refusal
T11A17-SL-111	Soil	4.74	13.0	Refusal	Refusal	Refusal
T11A17-SL-115	Soil	0.81	0.03	X	Refusal	Refusal
T11A17-SL-121	Soil	0.16	ND	ND	Refusal	Refusal
T11A17-SL-124	Soil	0.17	ND	X	X	Refusal
T11A17-SL-125	Soil	0.14	ND	ND	Refusal	Refusal
T11A17-SL-126	Soil	0.53	ND	X	Refusal	Refusal
T11A17-SL-127	Soil	0.03	ND	X	X	Refusal
T11A17-SL-128	Soil	1.90	0.63	X	Refusal	Refusal
T11A18-SL-193	Soil	0.64	0.35	X	Refusal	Refusal
T11A17-SL-129	Soil	0.14	0.03	X	Refusal	Refusal
T11A17-SL-130	Soil	30.6	16.5	Refusal	Refusal	Refusal
T11A18-SL-194	Soil	0.86	0.21	X	X	Refusal
T11A17-SL-131	Soil	6.57	0.78	X	Refusal	Refusal
T11A18-SL-196	Soil	0.14	0.03	X	X	Refusal
T11A18-SL-197	Soil	0.34	1.02	0.02	Refusal	Refusal
T11A18-SL-198	Soil	1.53	0.76	X	Refusal	Refusal
T11A18-SL-214	Soil	0.15	0.01	X	Refusal	Refusal
T11A18-SL-215	Soil	0.99	0.18	X	Refusal	Refusal
T11A17-SL-132	Soil	0.06	ND	X	X	Refusal

Table 8

Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples

Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Location Name	Matrix	Sample Interval (inches)[1]				
		0 - 6	6 - 12	12 - 18	18 - 24	24+
Tributary T11A (continued)						
T11A17-SL-133	Soil	0.48	0.22	X	Refusal	Refusal
T11A17-SL-134	Soil	0.12	0.07	X	X	Refusal
T11A17-SL-135	Soil	0.20	0.08	X	X	Refusal
T11A17-SL-136	Soil	0.22	0.20	Refusal	Refusal	Refusal
T11A17-SL-137	Soil	0.34	0.03	X	X	Refusal
T11A17-SL-138	Soil	1.52	1.37	16.50	25.18	Refusal
T11A18-SL-195	Soil	0.36	0.10	0.05	X	X
T11A17-SL-139	Soil	0.07	ND	Refusal	Refusal	Refusal
T11A17-SL-140	Soil	ND	ND	X	X	X
T11A17-SL-141	Soil	0.14	0.02	X	Refusal	Refusal
T11A17-SL-142	Soil	0.47	0.02	X	X	Refusal
T11A17-SL-143	Soil	0.19	0.07	Refusal	Refusal	Refusal
T11A17-SL-144	Soil	0.37	0.45	X	Refusal	Refusal
T11A17-SED-J-1	Sediment	3.65	1.29	Refusal	Refusal	Refusal
T11A18-SL-149	Soil	0.07	0.09	X	X	Refusal
T11A17-SED-J-2	Sediment	1.85	0.33	Refusal	Refusal	Refusal
T11A18-SL-151	Soil	0.13	0.02	X	X	Refusal
T11A17-SED-J-3	Sediment	0.96	0.57	Refusal	Refusal	Refusal
T11A17-SED-J-4	Sediment	1.28	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-5	Sediment	0.56	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-6	Sediment	1.53	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-7	Sediment	4.32	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-8	Sediment	0.60	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-9	Sediment	0.14	Refusal	Refusal	Refusal	Refusal
T11A17-SED-J-10	Sediment	0.61	0.54	Refusal	Refusal	Refusal
T11A17-SL-J-11	Soil	0.01	ND	X	X	Refusal
T11A17-SL-J-12	Soil	8.01	3.46	0.14	Refusal	Refusal
T11A18-SL-174	Soil	0.22	0.10	X	X	Refusal
T11A17-SL-J-13	Soil	0.17	0.04	X	X	Refusal
T11A17-SL-J-14	Soil	0.13	0.07	X	Refusal	Refusal
T11A17-SL-J-15	Soil	0.25	0.17	X	X	Refusal
T11A17-SL-J-16	Soil	0.09	0.01	X	Refusal	Refusal
T11A17-SL-JT-1A	Soil	0.20	0.17	Refusal	Refusal	Refusal
T11A17-SL-JT-1B	Soil	0.08	0.04	Refusal	Refusal	Refusal
T11A17-SL-JT-2	Soil	18.2	41.9	9.4	Refusal	Refusal
T11A18-SED-163	Sediment	0.39	0.54	0.06	Refusal	Refusal
T11A18-SL-164	Soil	0.10	ND	0.03	Refusal	Refusal
T11A17-SL-JT-3	Soil	7510	180	0.76	0.15	Refusal
T11A18-SL-165	Soil	16.9	13.4	0.05	ND	Refusal
T11A18-SED-167	Sediment	ND	0.02	Refusal	Refusal	Refusal
T11A18-SL-168	Soil	0.10	ND	X	Refusal	Refusal
T11A18-SL-169	Soil	1.55	0.86	X	X	Refusal
T11A18-SL-170	Soil	1.12	0.04	X	X	Refusal
T11A17-SL-JT-4	Soil	0.12	0.03	2.16	Refusal	Refusal
T11A18-SL-178	Soil	0.05	0.03	ND	see Note 5	X
T11A17-SL-JT-5	Soil	2.51	0.55	X	Refusal	Refusal
T11A18-SL-179	Soil	0.36	0.15	X	Refusal	Refusal
T11A18-SL-180	Soil	0.10	0.02	X	Refusal	Refusal
T11A17-SL-JT-6	Soil	0.12	0.13	0.14	Refusal	Refusal
T11A17-SL-JT-7	Soil	0.12	0.05	X	Refusal	Refusal
T11A17-SL-JT-8	Soil	2.45	0.31	X	Refusal	Refusal
T11A17-SL-JT-9	Soil	0.54	0.09	X	X	Refusal
T11A17-SL-JT-10	Soil	0.66	0.07	0.15	Refusal	Refusal
T11A17-SL-JT-11	Soil	0.63	0.16	X	X	Refusal
T11A17-SL-JT-12	Soil	0.80	3.43	0.74	Refusal	Refusal

Table 8

Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

		Sample Interval (inches)[1]				
Location Name	**Matrix**	**0 - 6**	**6 - 12**	**12 - 18**	**18 - 24**	**24+**
Tributary T11A (continued)						
T11A17-SL-JT-13	Soil	0.52	0.20	X	Refusal	Refusal
T11A17-SL-JT-14	Soil	10.4	10.3	Refusal	Refusal	Refusal
T11A17-SL-JT-15	Soil	0.25	0.43	X	X	Refusal
Samples Analyzed		**223**	**212**	**69**	**20**	**0**
Average		**40**	**5.0**	**5.1**	**25**	**--**
Median		**0.33**	**0.12**	**0.065**	**1.3**	**--**
Maximum		**7510**	**258**	**214**	**348**	**--**
% ND		**3%**	**13%**	**20%**	**30%**	**--**
% Detected <1 ppm		**70%**	**69%**	**55%**	**15%**	**--**
Northwest Drainage Ditch and Former Mead Road Pond Area						
MRP17-SED-J-1	Sediment	0.54	Refusal	Refusal	Refusal	Refusal
MRP17-SED-J-2	Sediment	0.25	Refusal	Refusal	Refusal	Refusal
MRP17-SED-J-3	Sediment	3.27	Refusal	Refusal	Refusal	Refusal
NWDD17-SL-105	Soil	3.09	0.60	X	X	X
NWDD18-SED-201	Sediment	0.16	ND	Refusal	Refusal	Refusal
NWDD17-SL-108	Soil	1.22	0.86	X	X	Refusal
NWDD17-SL-110	Soil	1.15	0.50	X	Refusal	Refusal
NWDD17-SL-114	Soil	1.30	0.86	X	Refusal	Refusal
NWDD18-SL-199	Soil	0.07	0.05	X	X	X
NWDD18-SL-200	Soil	0.20	0.04	X	X	Refusal
NWDD17-SL-101	Soil	2.30	17.3	0.05	ND	Refusal
NWDD18-SL-216	Soil	0.29	0.16	X	X	Refusal
NWDD17-SL-103	Soil	0.52	0.23	X	X	X
NWDD17-SL-104	Soil	2.19	0.03	X	X	X
NWDD17-SL-107	Soil	0.72	0.22	X	X	Refusal
NWDD18-SED-202	Sediment	0.55	0.44	X	X	Refusal
NWDD18-SL-203	Soil	1.34	0.17	X	X	X
NWDD18-SL-217	Soil	0.78	0.02	X	X	Refusal
NWDD17-SL-122	Soil	0.23	0.09	X	Refusal	Refusal
NWDD17-SL-119	Soil	0.89	0.92	X	Refusal	Refusal
NWDD17-SED-J-4	Sediment	0.13	ND	X	Refusal	Refusal
NWDD17-SED-J-5	Sediment	0.95	0.15	Refusal	Refusal	Refusal
NWDD17-SED-J-6	Sediment	1.86	see Note 5	0.15	X	Refusal
NWDD18-SL-204	Soil	0.04	0.06	X	X	X
NWDD18-SL-205	Soil	0.07	0.24	X	Refusal	Refusal
NWDD17-SL-113	Soil	0.14	0.03	X	X	X
NWDD17-SL-116	Soil	0.11	0.12	X	X	X
NWDD17-SL-118	Soil	0.14	0.12	X	Refusal	Refusal
NWDD17-SL-117	Soil	0.48	0.11	X	Refusal	Refusal
NWDD17-SL-112	Soil	2.95	0.82	X	Refusal	Refusal
NWDD18-SL-206	Soil	0.17	0.43	X	Refusal	Refusal
NWDD17-SL-120	Soil	0.07	0.19	X	X	X
NWDD17-SL-123	Soil	0.72	0.78	X	X	Refusal
Samples Analyzed		**33**	**29**	**2**	**1**	**0**
Average		**0.88**	**0.88**	**0.10**	**ND**	**--**
Median		**0.54**	**0.17**	**0.10**	**ND**	**--**
Maximum		**3.3**	**17**	**0.15**	**ND**	**--**
% ND		**0%**	**7%**	**0%**	**100%**	**--**
% Detected <1 ppm		**70%**	**90%**	**100%**	**0%**	**--**

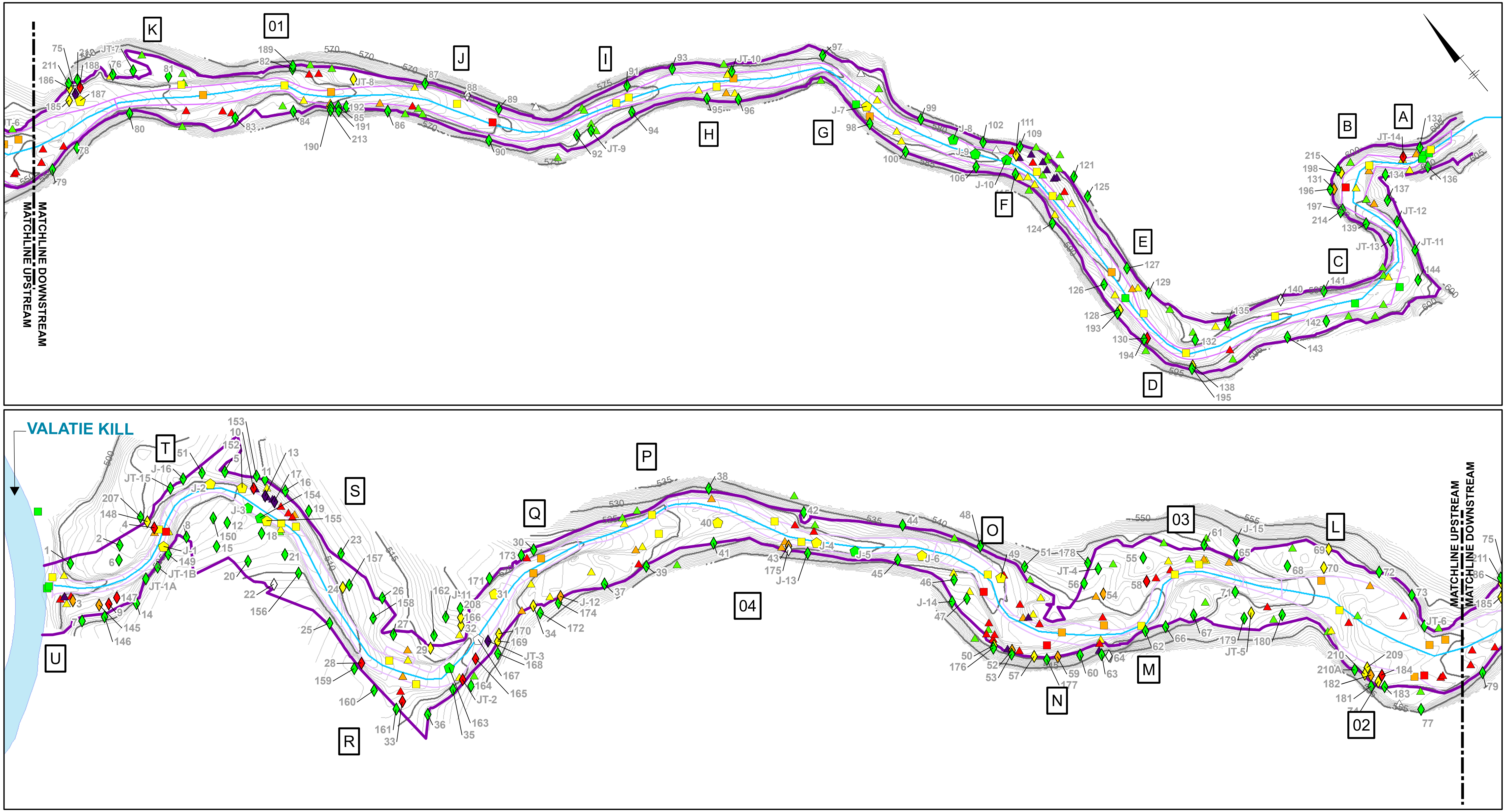
Table 8
Summary of Total PCB Data for 2017 and 2018 Sediment and Soil Samples
Data Summary Report for Tributary T11A Removal Action Under Paragraph 47.f

Dewey Loeffel Landfill Superfund Site - Nassau, New York

Abbreviations, Notes, and Definitions:

1. Sample Interval represents the target range of inches below ground surface. At some locations refusal was met before the bottom of the target interval, and the actual depth is shallower than the target.
3. An X indicates sample was collected but archived, and has not been analyzed.
4. Laboratory qualifiers are not included in the representation of results presented in this table, and where applicable duplicate samples have been averaged with the parent sample. When calculating statistics, half the reporting limit was used for ND results.
5. No recovery was achieved in the 6- to 12-inch interval at location NWDD17-SED-J-6 or from the 18- to 24-inch interval at location T11A18-SL-178.
6. Shading indicates the following PCB Concentrations:
    - 🟨 = Total PCB results between 1 and 5 ppm
    - 🟧 = Total PCB results between 5 and 10 ppm
    - 🟥 = Total PCB results between 10 and 50 ppm
    - 🟪 = Total PCB results greater than 50 ppm
7. PCB = polychlorinated biphenyl Aroclor.
8. ND = non-detect.
9. ppm = parts per million.
10. < = less than
11. % = percent

FIGURES



LEGEND

▲	PRE-2017 SOIL SAMPLE LOCATION	PCB RESULT (PPM):			50-YEAR EXTENT OF STREAM (SEE NOTE 5)
■	PRE-2017 SEDIMENT LOCATION	○	NON-DETECT		APPROXIMATE TRIBUTARY T11A REMEDIATION BOUNDARY (2002-2003)
♦	2017 SOIL SAMPLE LOCATION	🟢	< 1	A	HISTORICAL SAMPLING AREA
⬟	2017 SEDIMENT SAMPLE LOCATION	🟡	1 - 5		WATER
		🟠	5 - 10		
		🔴	10 - 50		
		🟣	> 50		

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
4. CONTOUR BASE MAP INFORMATION OBTAINED FROM FIELD SURVEY PERFORMED IN DECEMBER 2010 BY ARCADIS. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
5. EXTENT OF STREAM BASED ON PREDICTED WATER SURFACE PROFILE USING HEC-RAS SOFTWARE WHILE CONVEYING PEAK DISCHARGE FROM THE 50-YEAR, 24-HOUR DESIGN STORM.
6. SOIL/SEDIMENT SAMPLE LOCATIONS SHOWN REPRESENT GE SAMPLES COLLECTED IN AUGUST 2010, APRIL 2010, JUNE 2011, JANUARY 2014 (INCLUDING IES AND OES), NOVEMBER 2017, AND JANUARY AND MARCH 2018 AND NYSDEC AND USEPA SAMPLES COLLECTED IN 2009.

0 55 110 Feet

GRAPHIC SCALE

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
PCB RESULTS
(0- TO 6-INCH INTERVAL)

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FIGURE
1A

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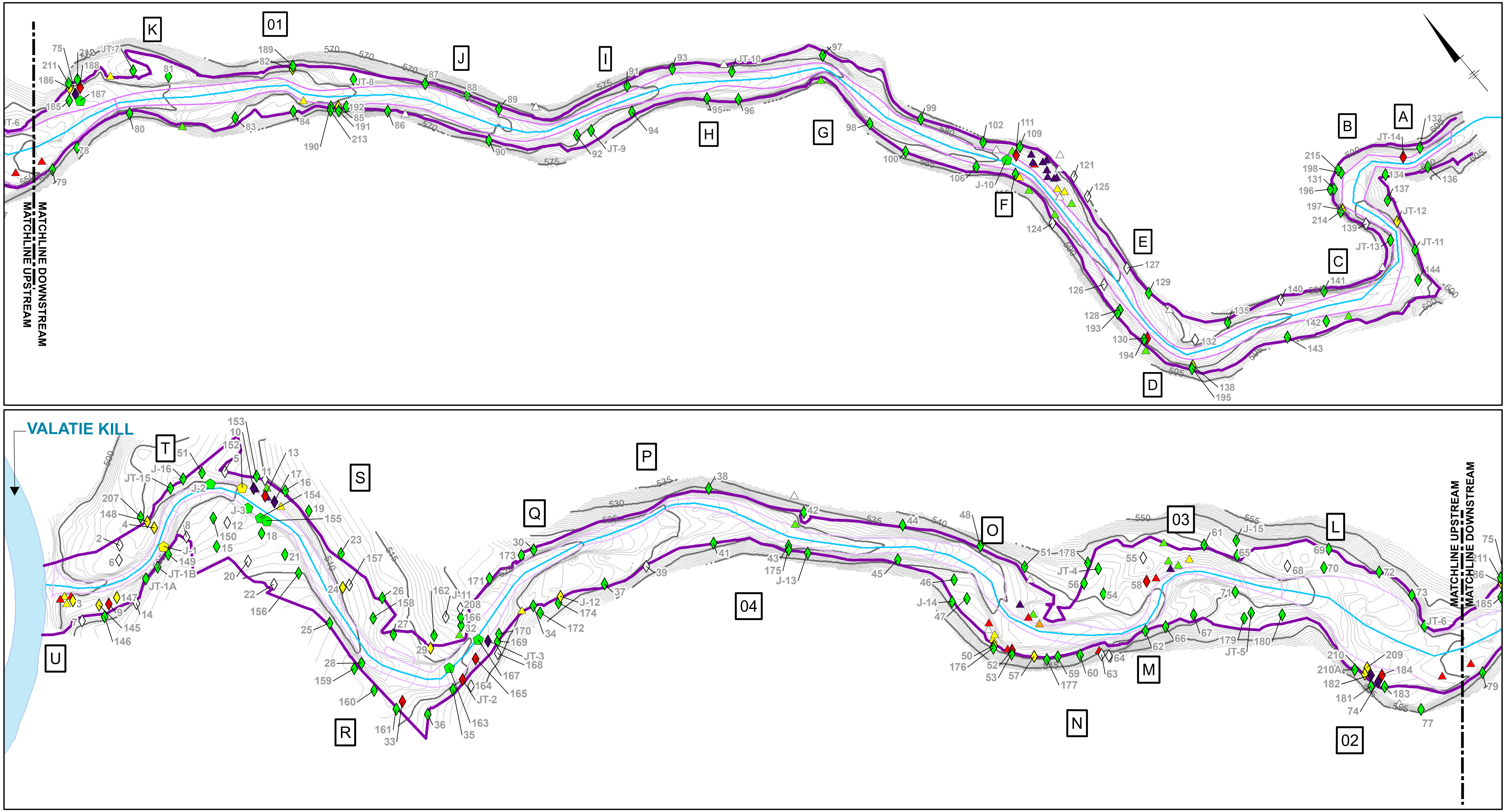

LEGEND

- ▲ PRE-2017 SOIL SAMPLE LOCATION
- ■ PRE-2017 SEDIMENT LOCATION
- ◆ 2017 SOIL SAMPLE LOCATION
- ⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):

- ○ NON-DETECT
- ● < 1
- ● 1 - 5
- ● 5 - 10
- ● 10 - 50
- ● > 50

- 50-YEAR EXTENT OF STREAM (SEE NOTE 5)
- APPROXIMATE TRIBUTARY T11A REMEDIATION BOUNDARY (2002-2003)
- A HISTORICAL SAMPLING AREA
- WATER

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
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0 55 110 Feet

GRAPHIC SCALE

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
PCB RESULTS
(6- TO 12-INCH INTERVAL)

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1B

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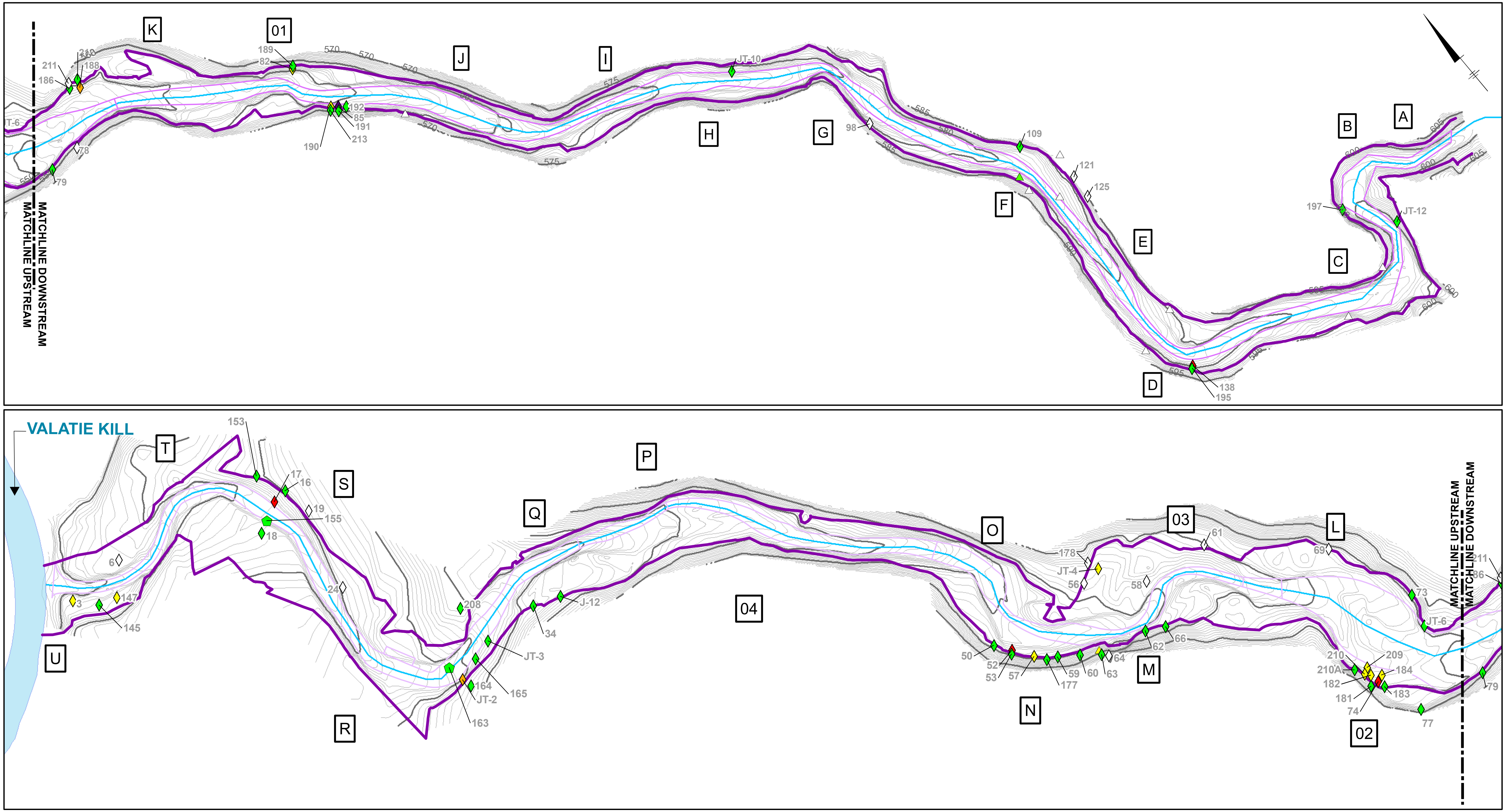

LEGEND

▲ PRE-2017 SOIL SAMPLE LOCATION
■ PRE-2017 SEDIMENT LOCATION
♦ 2017 SOIL SAMPLE LOCATION
⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):
○ NON-DETECT
🟢 < 1
🟡 1 - 5
🟠 5 - 10
🔴 10 - 50
🟣 > 50

━ 50-YEAR EXTENT OF STREAM (SEE NOTE 5)
━ APPROXIMATE TRIBUTARY T11A REMEDIATION BOUNDARY (2002-2003)
A HISTORICAL SAMPLING AREA
━ WATER

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
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0 55 110 Feet

GRAPHIC SCALE

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
PCB RESULTS
(12- TO 18-INCH INTERVAL)

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FIGURE
1C

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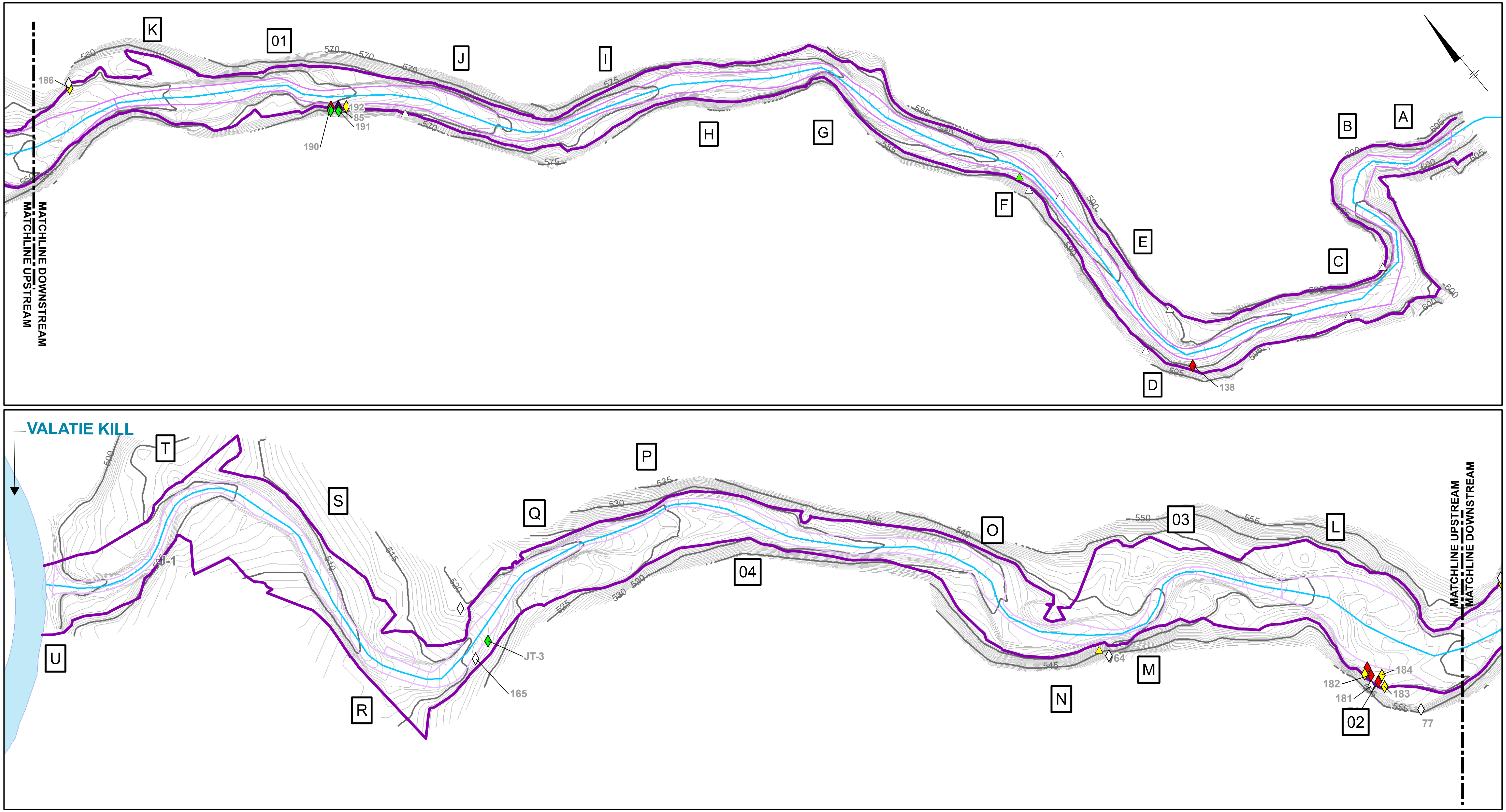

LEGEND

▲ PRE-2017 SOIL SAMPLE LOCATION
■ PRE-2017 SEDIMENT LOCATION
♦ 2017 SOIL SAMPLE LOCATION
⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):
○ NON-DETECT
🟢 < 1
🟡 1 - 5
🟠 5 - 10
🔴 10 - 50
🟣 > 50

50-YEAR EXTENT OF STREAM (SEE NOTE 5)
APPROXIMATE TRIBUTARY T11A REMEDIATION BOUNDARY (2002-2003)
A HISTORICAL SAMPLING AREA
WATER

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
4. CONTOUR BASE MAP INFORMATION OBTAINED FROM FIELD SURVEY PERFORMED IN DECEMBER 2010 BY ARCADIS. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
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0 55 110 Feet
GRAPHIC SCALE

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
PCB RESULTS
(18- TO 24-INCH INTERVAL)

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FIGURE
1D

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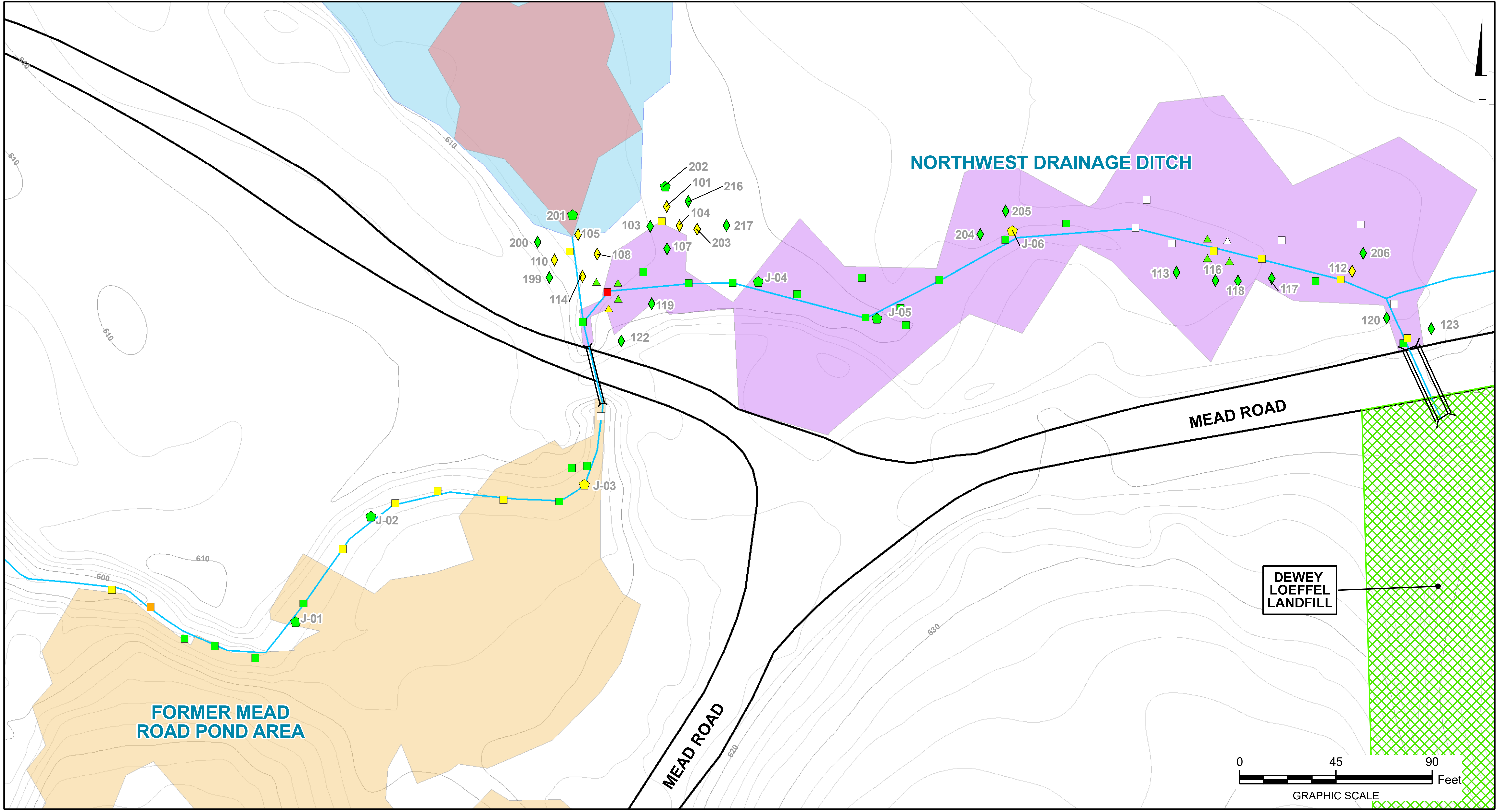

LEGEND

▲	PRE-2017 SOIL SAMPLE LOCATION
■	PRE-2017 SEDIMENT SAMPLE LOCATION
◆	2017 SOIL SAMPLE LOCATION
⬟	2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):

○	NON-DETECT
●	< 1
●	1 - 5
●	5 - 10
●	10 - 50
●	> 50

🟦	WATER
🟪	APPROXIMATE NORTHWEST DRAINAGE DITCH REMEDIATION BOUNDARY (2001)
🟥	APPROXIMATE LOW LYING AREA REMEDIATION BOUNDARY (2001)
🟧	APPROXIMATE MEAD POND REMEDIATION BOUNDARY (2001)

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET.
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
5. NORTHWEST DRAINAGE DITCH MAP COMPILED FROM PHOTOGRAMMETRIC METHODS BASED ON PHOTOGRAPHY DATED MARCH 31, 1988 AND SUPPLEMENTED WITH ACTUAL FIELD SURVEY. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
6. SOIL/SEDIMENT SAMPLE LOCATIONS SHOWN REPRESENT GE SAMPLES COLLECTED IN JUNE 2011, DECEMBER 2013, DECEMBER 2017, AND JANUARY AND MARCH 2018 AND USEPA SAMPLES COLLECTED IN 2009.

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORTHWEST DRAINAGE DITCH AND FORMER MEAD ROAD POND AREA PCB RESULTS (0- TO 6-INCH INTERVAL)

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FIGURE
2A

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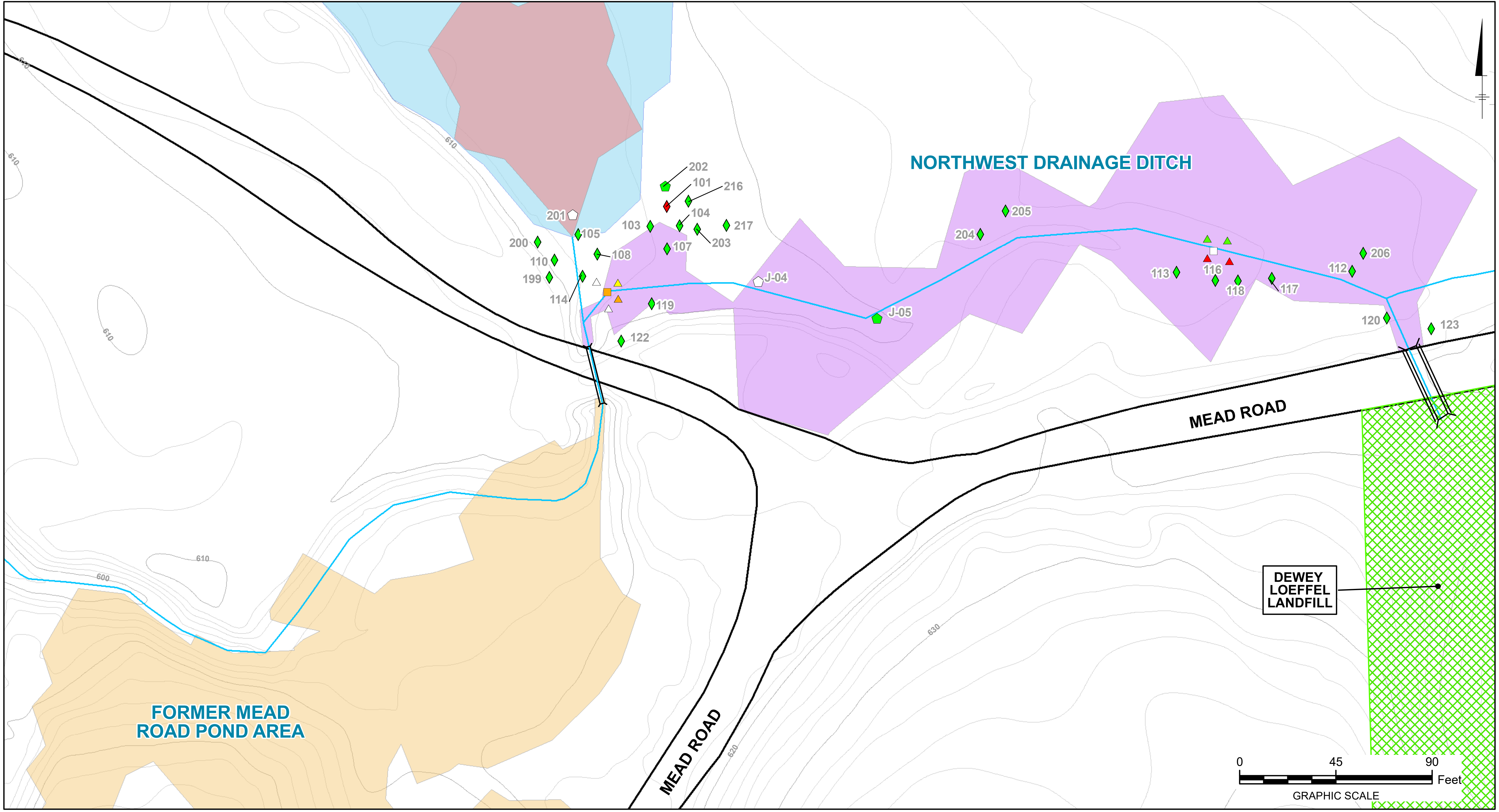

LEGEND

▲ PRE-2017 SOIL SAMPLE LOCATION
■ PRE-2017 SEDIMENT LOCATION
◆ 2017 SOIL SAMPLE LOCATION
⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):
○ NON-DETECT
🟢 < 1
🟡 1 - 5
🟠 5 - 10
🔴 10 - 50
🟣 > 50

🟦 WATER
🟪 APPROXIMATE NORTHWEST DRAINAGE DITCH REMEDIATION BOUNDARY (2001)
🟥 APPROXIMATE LOW LYING AREA REMEDIATION BOUNDARY (2001)
🟧 APPROXIMATE MEAD POND REMEDIATION BOUNDARY (2001)

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET.
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
5. NORTHWEST DRAINAGE DITCH MAP COMPILED FROM PHOTOGRAMMETRIC METHODS BASED ON PHOTOGRAPHY DATED MARCH 31, 1988 AND SUPPLEMENTED WITH ACTUAL FIELD SURVEY. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
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DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORTHWEST DRAINAGE DITCH AND FORMER MEAD ROAD POND AREA PCB RESULTS (6- TO 12-INCH INTERVAL)

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FIGURE
2B

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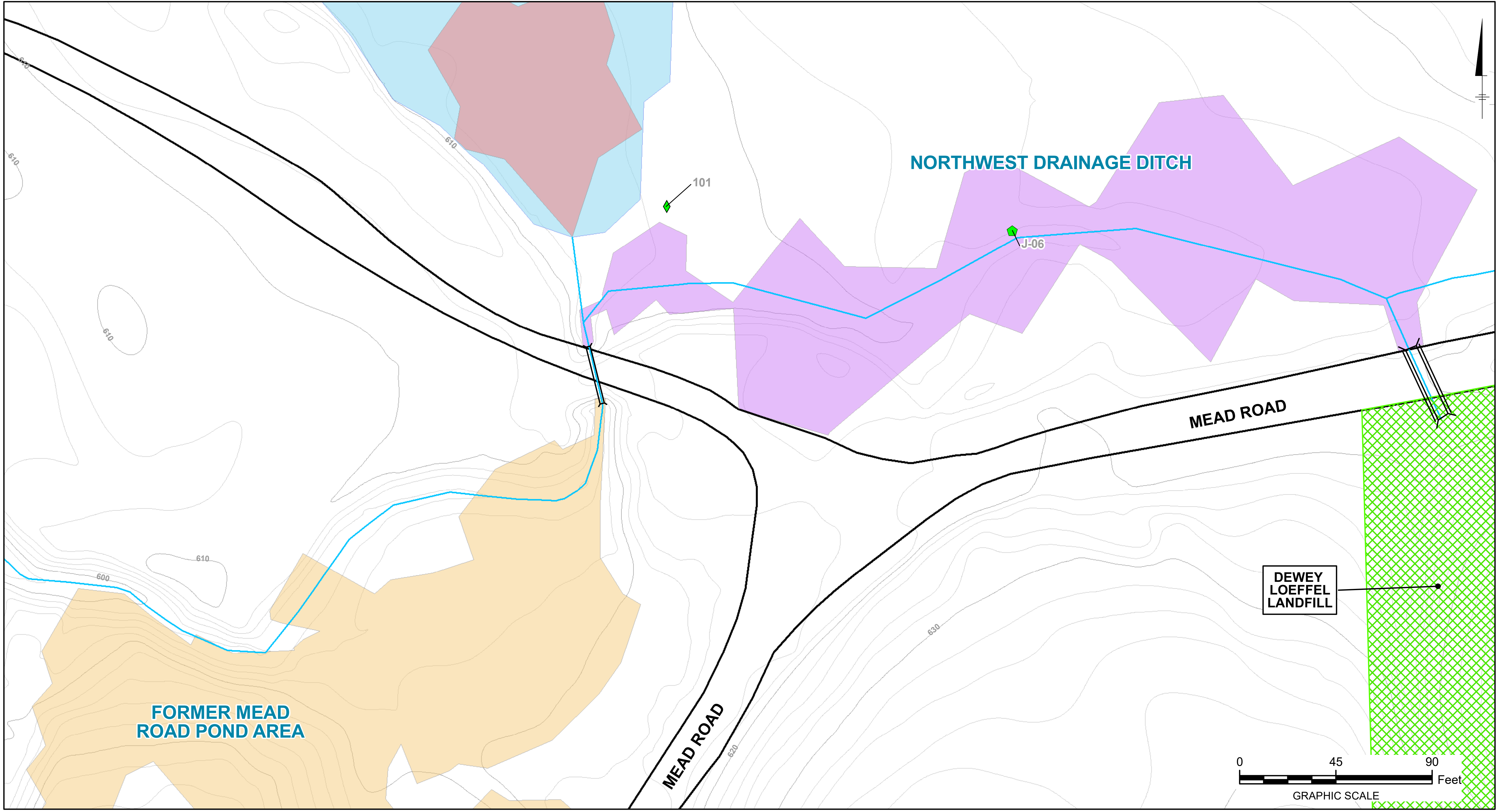

LEGEND

▲ PRE-2017 SOIL SAMPLE LOCATION
■ PRE-2017 SEDIMENT LOCATION
◆ 2017 SOIL SAMPLE LOCATION
⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):
○ NON-DETECT
🟢 < 1
🟡 1 - 5
🟠 5 - 10
🔴 10 - 50
🟣 > 50

🟦 WATER
🟪 APPROXIMATE NORTHWEST DRAINAGE DITCH REMEDIATION BOUNDARY (2001)
🟥 APPROXIMATE LOW LYING AREA REMEDIATION BOUNDARY (2001)
🟧 APPROXIMATE MEAD POND REMEDIATION BOUNDARY (2001)

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET.
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
5. NORTHWEST DRAINAGE DITCH MAP COMPILED FROM PHOTOGRAMMETRIC METHODS BASED ON PHOTOGRAPHY DATED MARCH 31, 1988 AND SUPPLEMENTED WITH ACTUAL FIELD SURVEY. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
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DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORTHWEST DRAINAGE DITCH AND FORMER MEAD ROAD POND AREA PCB RESULTS (12- TO 18-INCH INTERVAL)

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2C

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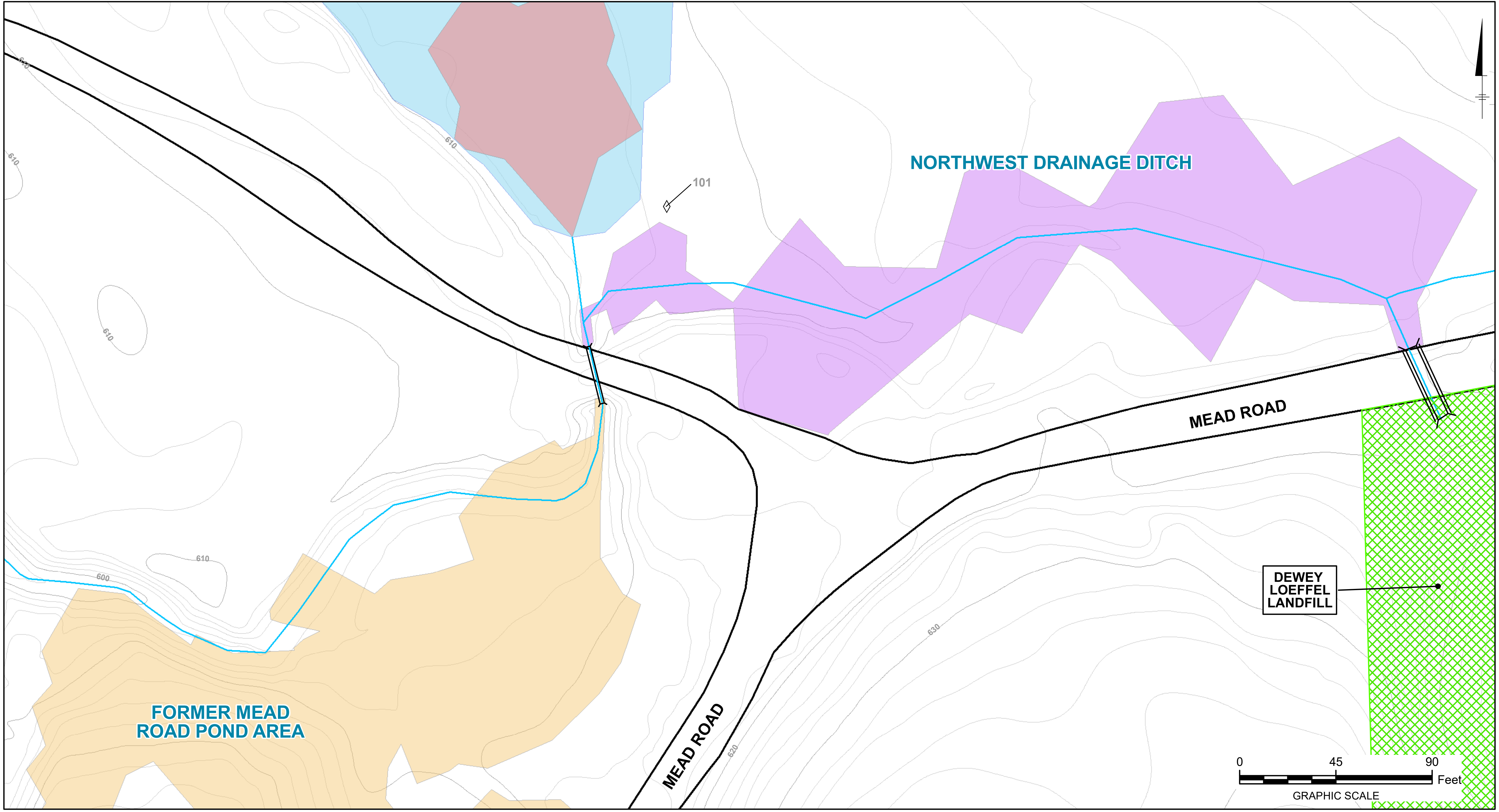

LEGEND

▲ PRE-2017 SOIL SAMPLE LOCATION
■ PRE-2017 SEDIMENT LOCATION
◆ 2017 SOIL SAMPLE LOCATION
⬟ 2017 SEDIMENT SAMPLE LOCATION

PCB RESULT (PPM):
○ NON-DETECT
● < 1
● 1 - 5
● 5 - 10
● 10 - 50
● > 50

▭ WATER
▭ APPROXIMATE NORTHWEST DRAINAGE DITCH REMEDIATION BOUNDARY (2001)
▭ APPROXIMATE LOW LYING AREA REMEDIATION BOUNDARY (2001)
▭ APPROXIMATE MEAD POND REMEDIATION BOUNDARY (2001)

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET.
3. POLYCHLORINATED BIPHENYL AROCLOR (PCB) RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
5. NORTHWEST DRAINAGE DITCH MAP COMPILED FROM PHOTOGRAMMETRIC METHODS BASED ON PHOTOGRAPHY DATED MARCH 31, 1988 AND SUPPLEMENTED WITH ACTUAL FIELD SURVEY. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
6. SOIL/SEDIMENT SAMPLE LOCATIONS SHOWN REPRESENT GE SAMPLES COLLECTED IN JUNE 2011, DECEMBER 2013, DECEMBER 2017, AND JANUARY AND MARCH 2018 AND USEPA SAMPLES COLLECTED IN 2009.

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORTHWEST DRAINAGE DITCH AND FORMER MEAD ROAD POND AREA PCB RESULTS (18- TO 20-INCH INTERVAL)

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2D

City: SYR Div/Group: IMDV Created By: K.IVES Last Saved By: kives
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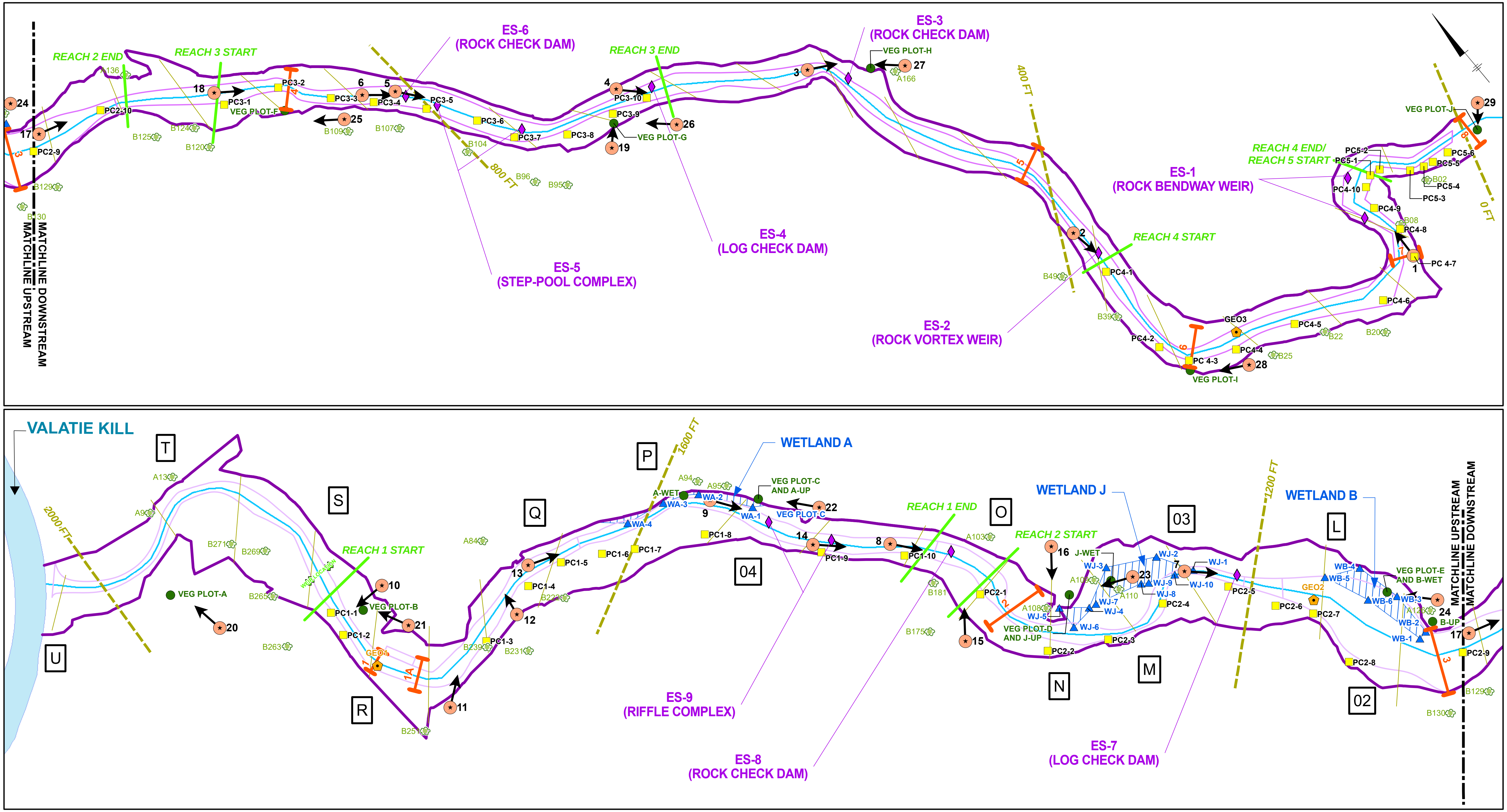

LEGEND

- ⊛ PHOTO LOCATION (SEE NOTE 5)
- → PHOTO DIRECTION
- ⬠ GEOTECHNICAL SAMPLE LOCATION
- ✿ TREE LOCATION (>18" DBH)
- ● VEG PLOT AND/OR WETLAND DETERMINATION FORM LOCATION
- 🟨 PEBBLE COUNT LOCATION
- ▲ WETLAND FLAG
- ◆ ENHANCEMENT STRUCTURE LOCATION
- A HISTORICAL SAMPLING AREA
- 🟩 HABITAT ASSESSMENT REACH (PEBBLE COUNT AND SVAP ANALYSIS)
- - - 50-FT TRANSET FOR TREE SURVEY
- ▬ 50-YEAR EXTENT OF STREAM (SEE NOTE 3)
- ─ APPROXIMATE 2002 - 2003 EXCAVATION BOUNDARY
- ├┤ CROSS SECTION LOCATION
- ▭ WATER
- ▨ WETLAND AREA

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. EXTENT OF STREAM BASED ON PREDICTED WATER SURFACE PROFILE USING HEC-RAS SOFTWARE WHILE CONVEYING PEAK DISCHARGE FROM THE 50-YEAR, 24-HOUR DESIGN STORM.
4. TREES LARGER THAN 18 INCHES DIAMETER AT BREAST HEIGHT (DBH) ARE SHOWN.
5. PHOTOS REFERENCED ARE PROVIDED IN APPENDIX B.

0 55 110
Feet
GRAPHIC SCALE

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
HABITAT ASSESSMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

City: SYR Div/Group: IMDV Created By: K.IVES Last Saved By: kives
B0010073.0102.00001
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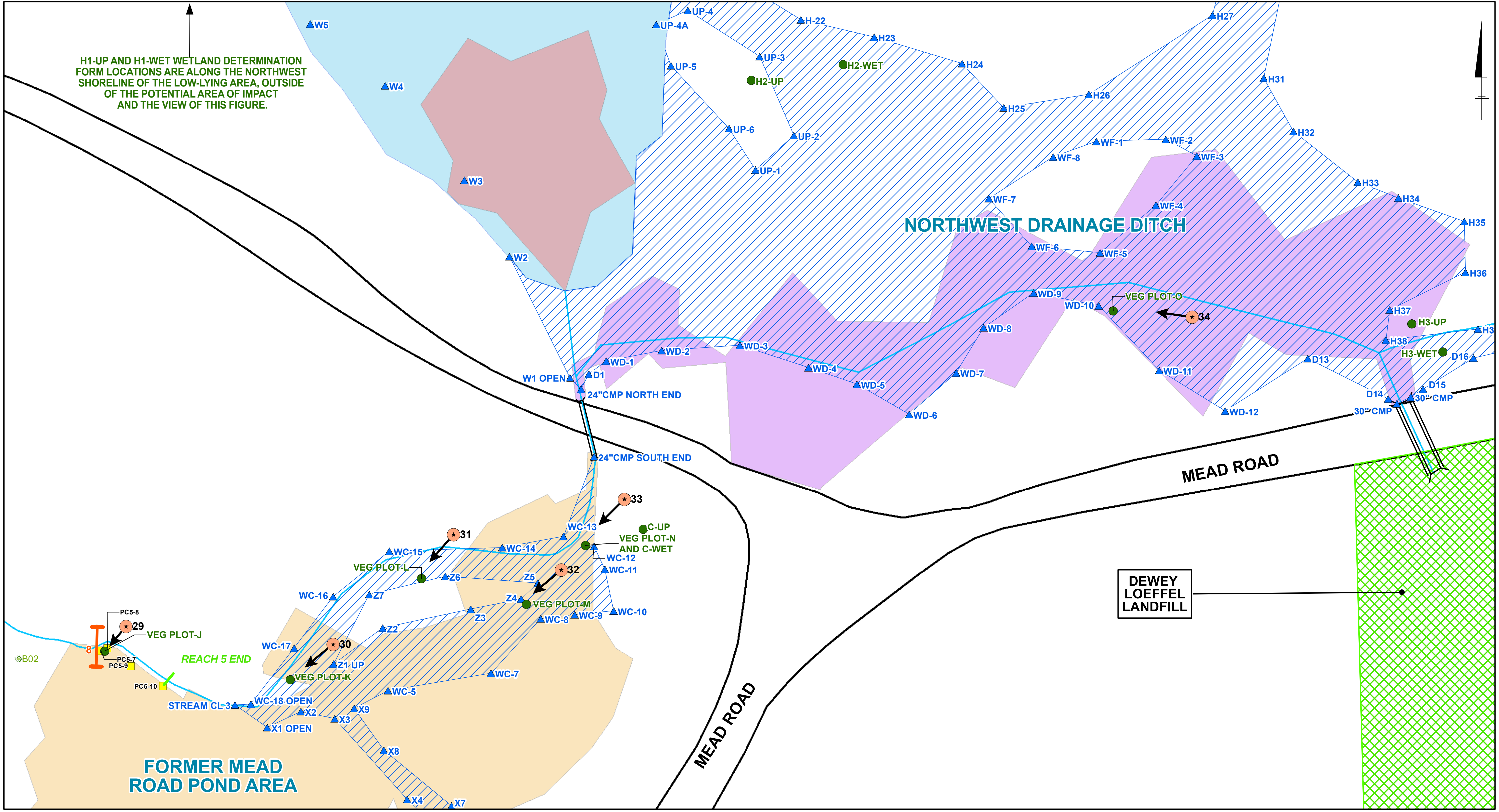


LEGEND

●	PHOTO LOCATION (SEE NOTE 3)	▲	WETLAND FLAG
→	PHOTO DIRECTION	▨	WETLAND AREA
⊢⊣	CROSS SECTION LOCATION	🟦	WATER
—	HABITAT ASSESSMENT REACH (PEBBLE COUNT AND SVAP ANALYSIS)	🟪	APPROXIMATE NORTHWEST DRAINAGE DITCH REMEDIATION BOUNDARY (2001)
●	VEG PLOT AND/OR WETLAND DETERMINATION FORM LOCATION	🟥	APPROXIMATE LOW LYING AREA REMEDIATION BOUNDARY (2001)
✿	TREE LOCATION (>18" DBH)	🟧	APPROXIMATE MEAD POND REMEDIATION BOUNDARY (2001)
🟨	PEBBLE COUNT LOCATION		

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE NEW YORK EAST FIPS 3101 FEET
3. PHOTOS REFERENCED ARE PROVIDED IN APPENDIX B.
4. TREES LARGER THAN 18 INCHES DIAMETER AT BREAST HEIGHT (DBH) ARE SHOWN.

0 45 90 Feet

GRAPHIC SCALE

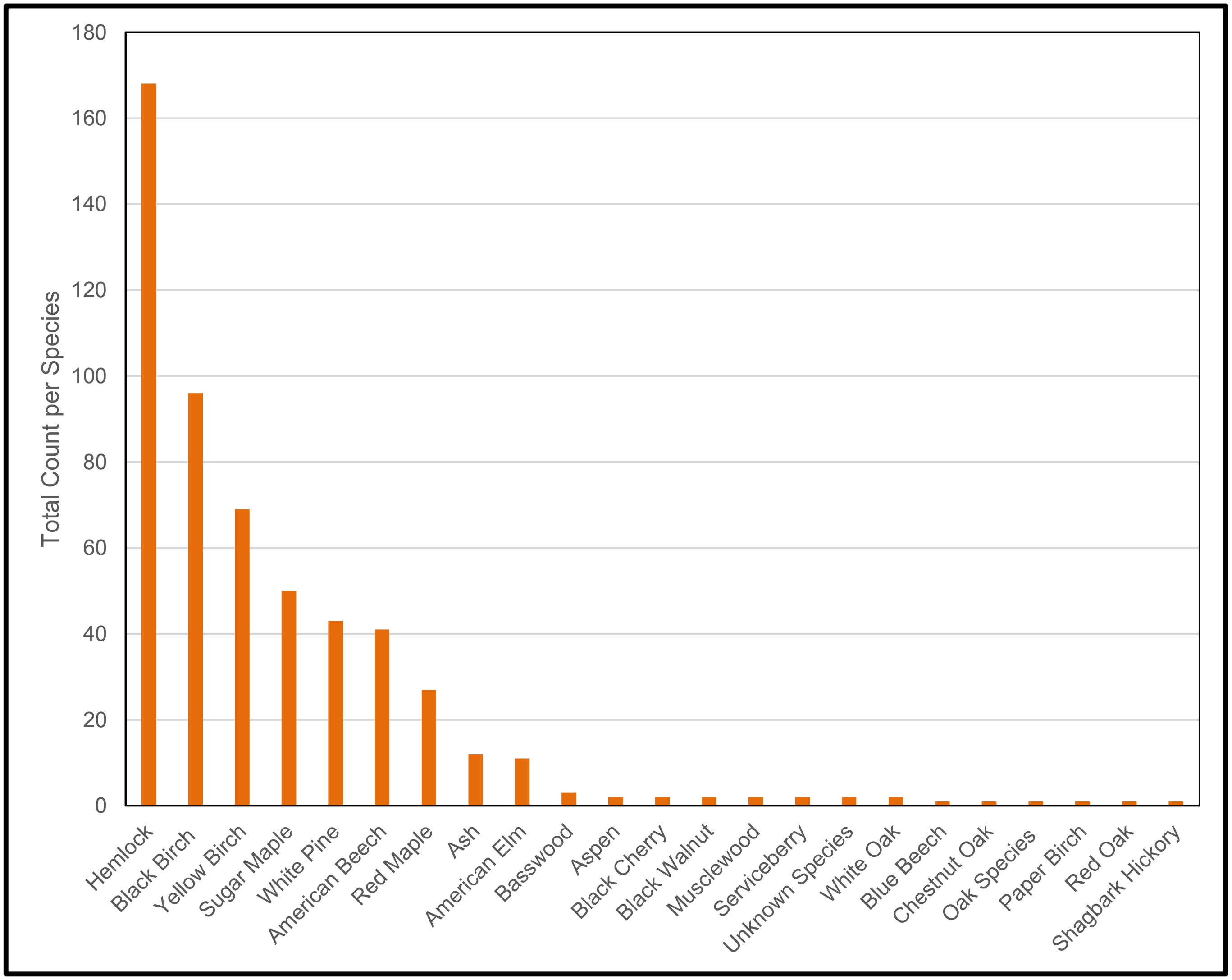
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORTHWEST DRAINAGE DITCH AND FORMER MEAD ROAD POND AREA HABITAT ASSESSMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

City: SYR Div/Group: IMDV Created By: K.IVES Last Saved By: kives
B0010073.0102.00001
R:\GE_GIS\GE_Loeffel\SamplingResults_2017\mxd\SoilSedSampleLocs_NorthwestDrainage_HabitatAssessment1.mxd 5/24/2018 3:18:08 PM



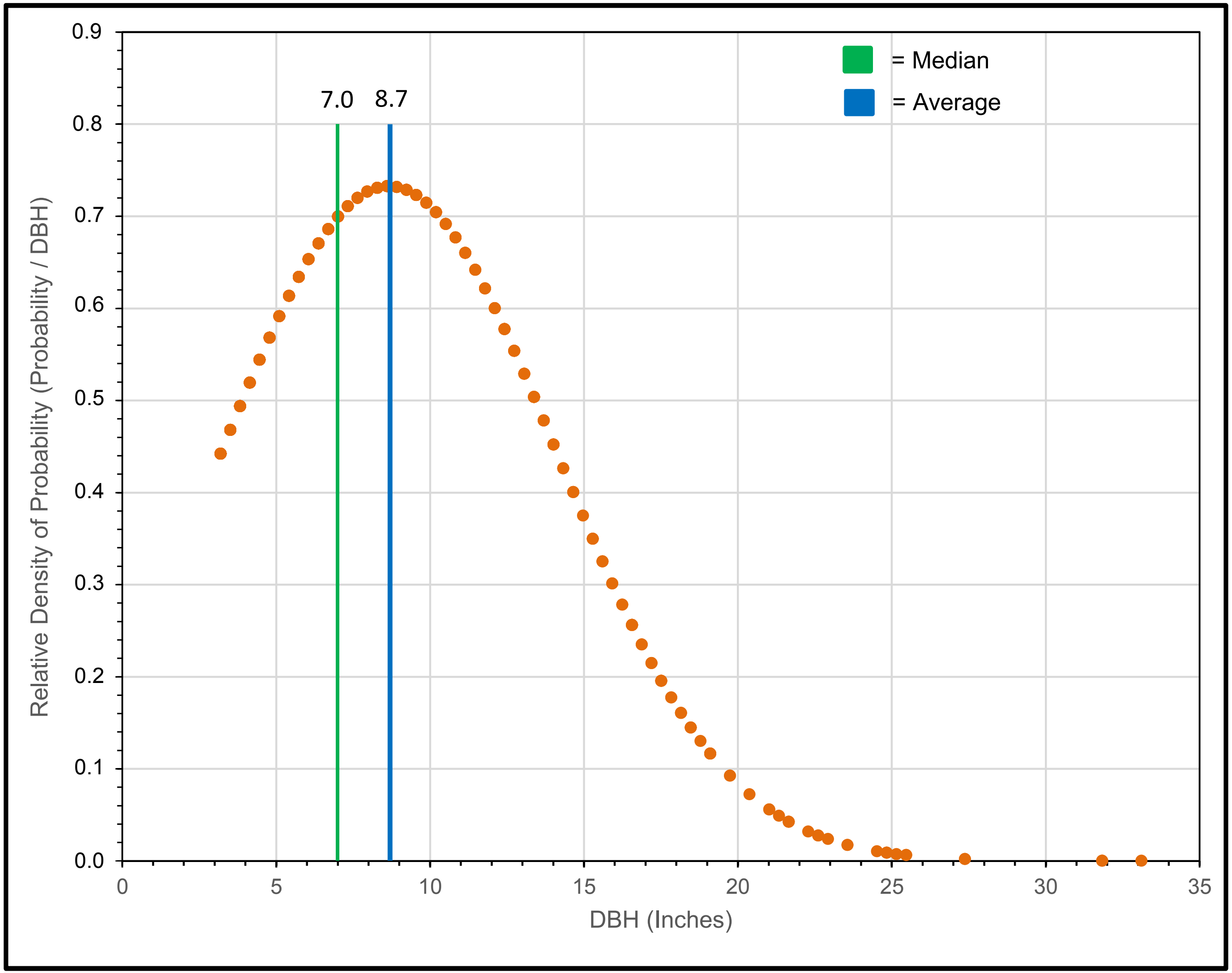
Note: Includes trees greater than 3-inch Diameter at Breast Height (DBH).

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

COUNT OF TREE SPECIES IN TRIBUTARY T11A INVESTIGATION AREA

ARCADIS

FIGURE
5



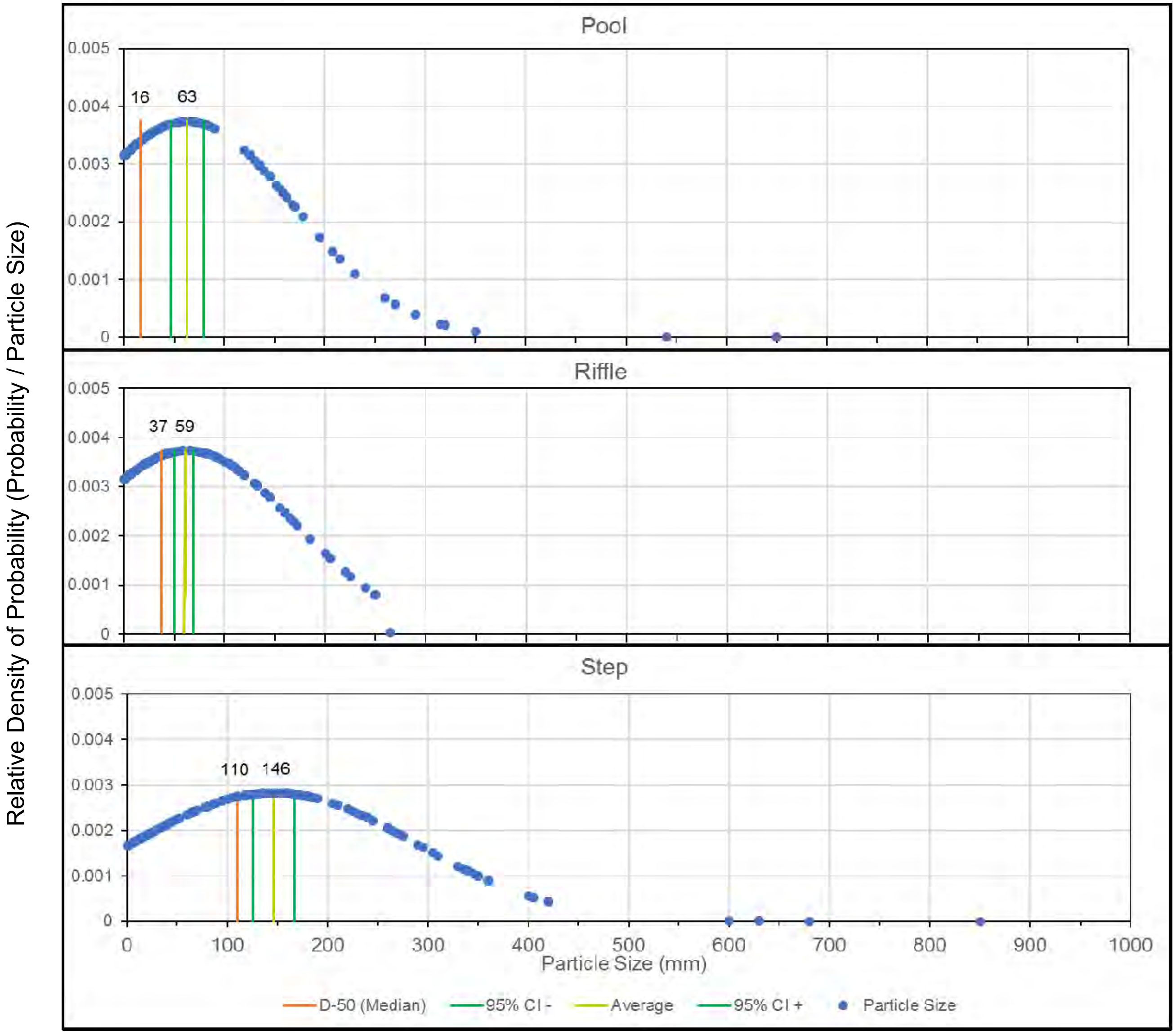
Note: Individual tree diameter at breast height (DBH) measurements were fit to a normal distribution. Includes trees greater than 3-inch DBH.

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORMALIZED DISTRIBUTION OF TREE TRUNK DBH IN TRIBUTARY T11A INVESTIGATION AREA

ARCADIS

FIGURE
6



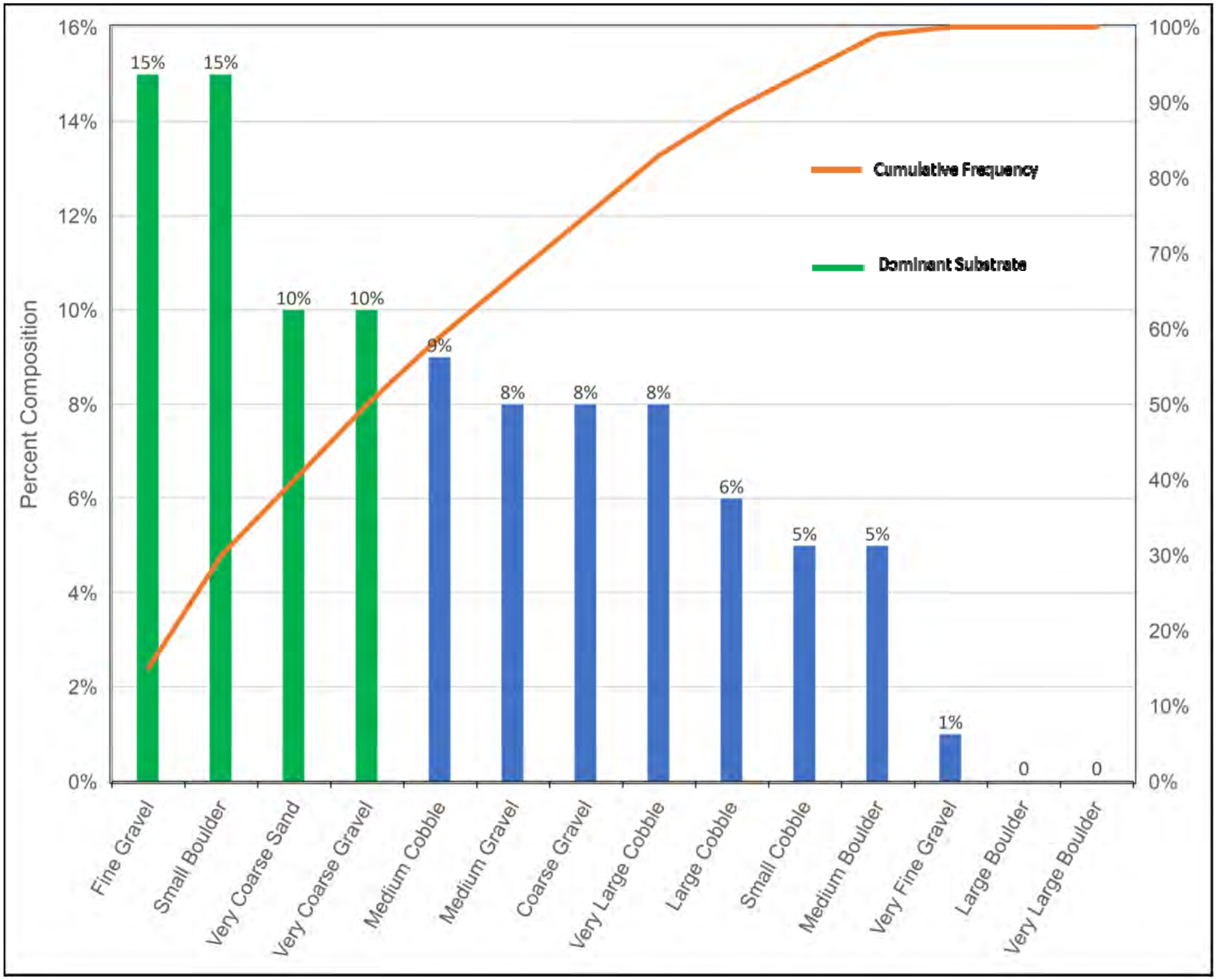
Note: Individual particle sizes were fit to a normal distribution. 16 Pool Habitats, 16 Riffle Habitats, and 18 Step Habitats are represented. The average is bound by the 95% confidence interval, calculated using a standard normal distribution.

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

NORMALIZED DISTRIBUTION OF PARTICLE SIZES PER HABITAT IN TRIBUTARY T11A

ARCADIS

FIGURE
7



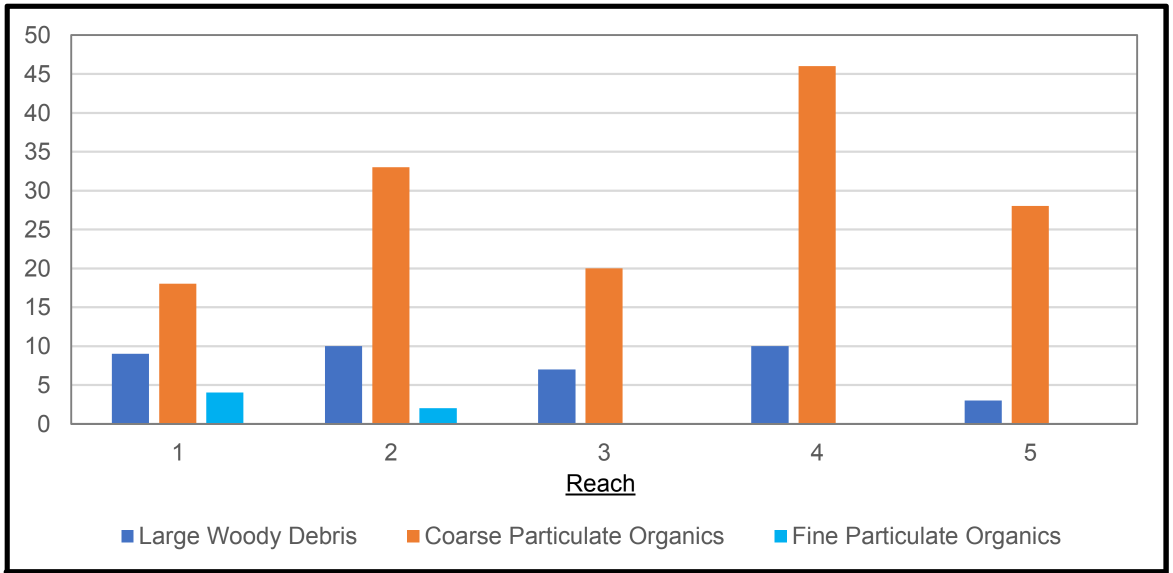
Note: Columns represent percent composition of T11A surface substrate, with scale shown on primary (left) y-axis. Cumulative

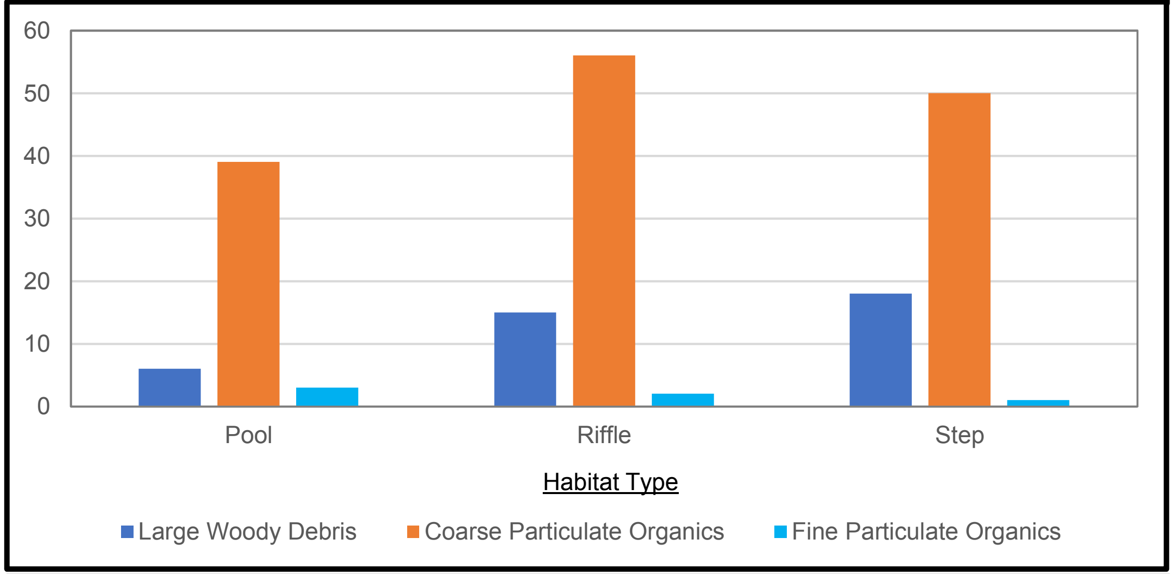
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

PARTICLE SIZE DISTRIBUTION IN TRIBUTARY T11A

ARCADIS

FIGURE
8





Note: Frequency of Large Woody Debris (LWD), Coarse Organics, and Fine Organics is as was observed in pebble count sampling. Sampling is broken down by Pebble Count Reach (top figure) and Habitat (bottom figure).

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

FREQUENCY OF LWD, COARSE ORGANICS, AND FINE ORGANICS OBSERVED IN TRIBUTARY T11A

ARCADIS

FIGURE
9

APPENDIX A

Historical PCB Data for Tributary T11A and Northwest Drainage Ditch Area

Table A-1
Tributary T11A 2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Tributary T11A	Soil/Sed #1	7/28/2009	Soil	0-6	2.1	NYSDEC Samples
	Soil/Sed #2	7/28/2009	Soil	0-6	22	NYSDEC Samples
	Site 1	8/7/2009	Soil	0-6	5.2	NYSDEC Samples
	Site 2	8/7/2009	Soil	0-6	3.8	NYSDEC Samples
	DLL-SED09	6/8/2009	Sediment	0-6	0.25 J	EPA Samples
	DLL-SED09A	8/7/2009	Sediment	0-6	0.68 D	EPA Samples
	DLL-SED10	6/9/2009	Sediment	0-6	0.34	EPA Samples
	DLL-SED10A	8/8/2009	Sediment	0-6	0.77	EPA Samples
	DLL-SED11	6/9/2009	Sediment	0-6	0.19	EPA Samples
	DLL-SED11A	8/8/2009	Sediment	0-6	0.56	EPA Samples

Abbreviations, Notes, and Definitions:

1. PCB = Polychlorinated Biphenyl Aroclor.
2. ppm = parts per million.
3. J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
4. D - The reported value is based on a diluted sample analysis.

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
A	SS-A-1	8/2010	Soil	0-6	9.4	
	SS-A-2	8/2010	Soil	0-6	1.6	
	SS-A-3	8/2010	Soil	0-6	2.7	
	SED-A-1	8/2010	Sediment	0-6	4.9	
	SED-A-2	8/2010	Sediment	0-6	0.297	
B	SS-B-1 [DUP-7]	8/2010	Soil	0-6	0.79 [0.87]	
	SS-B-2	8/2010	Soil	0-6	2.4	
	SS-B-3 [DUP-10]	8/2010	Soil	0-6	0.41 [0.38]	
	SS-B-4	8/2010	Soil	0-6	7.8	
	SS-B-5	8/2010	Soil	0-6	9.6	
	SED-B-1	8/2010	Sediment	0-6	1.6	
	SED-B-2	8/2010	Sediment	0-6	17	
C	SS-C-1	8/2010	Soil	0-6	0.28	
	SS-C-2	8/2010	Soil	0-6	2.5	
	SS-C-3	8/2010	Soil	0-6	0.37	
	SS-C-4	8/2010	Soil	0-6	0.75	
	SED-C-1	8/2010	Sediment	0-6	0.44	
	SED-C-2	8/2010	Sediment	0-6	0.35	
D	SS-D-1	8/2010	Soil	0-6	0.45	
	SS-D-2	8/2010	Soil	0-6	1.1	
	SS-D-3	8/2010	Soil	0-6	0.11	
	SS-D-4	8/2010	Soil	0-6	21	
	SS-D-5	8/2010	Soil	0-6	0.56	
	SED-D-1	8/2010	Sediment	0-6	1.9	
	SED-D-2	8/2010	Sediment	0-6	4.9	
E	SS-E-1	8/2010	Soil	0-6	2.4	
	SS-E-2	8/2010	Soil	0-6	6.6	
	SS-E-3	8/2010	Soil	0-6	3.0	
	SED-E-1	8/2010	Sediment	0-6	9.4	
	SED-E-2	8/2010	Sediment	0-6	1.5	
F	SS-F-1 [DUP-8]	8/2010	Soil	0-6	96 [115]	
	SS-F-1 (6-12)	6/2011	Soil	6-12	1,340	
	SS-F-2	8/2010	Soil	0-6	82	
	SS-F-2 (6-12)	6/2011	Soil	6-12	94	
	SS-F-3	8/2010	Soil	0-6	2.3	
	SS-F-4	8/2010	Soil	0-6	2.3	
	SS-F-5	6/2011	Soil	0-6	16	
	SS-F-5 (6-12)	6/2011	Soil	6-12	3.0	
	SS-F-6	6/2011	Soil	0-6	443	
	SS-F-6 (6-12)	6/2011	Soil	6-12	349	
	SS-F-7	6/2011	Soil	0-6	95	
	SS-F-7 (6-12)	6/2011	Soil	6-12	264	
	SS-F-8 [DUP-13]	6/2011	Soil	0-6	0.11 [0.13]	
	SS-F-8 (6-12)	6/2011	Soil	6-12	60	
	SS-F-9	6/2011	Soil	0-6	166	
	SS-F-9 (6-12)	6/2011	Soil	6-12	1,120	
	SED-F-1	8/2010	Sediment	0-6	4.0	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
F	SED-F-2	8/2010	Sediment	0-6	1.7	
	SS-F-10	January 2014	Soil	0-6	4.80	
			Soil	6-10	0.3962	
	SS-F-11	January 2014	Soil	0-6	0.0657	
			Soil	6-12	ND (0.0638)	
			Soil	12-15	ND (0.0612)	
	SS-F-12	January 2014	Soil	0-4	0.940	
	SS-F-13	January 2014	Soil	0-6	18.90	
			Soil	6-9	51.1	
	SS-F-14	January 2014	Soil	0-6	274.2	
	SS-F-15	January 2014	Soil	0-6	12.4	
			Soil	6-10	0.545	
	SS-F-16	January 2014	Soil	0-6	ND (0.0692)	
			Soil	6-12	ND (0.0670)	
	SS-F-17	January 2014	Soil	0-6	1.5672	
			Soil	6-12	0.1319	
	SS-F-18 [DUP-4]	January 2014	Soil	0-6	2.28	
			Soil	6-12	1.17	
			Soil	12-18	0.165 [0.1462]	
G	SS-G-1 [DUP-9]	8/2010	Soil	0-6	0.17 [0.15]	
	SS-G-2	8/2010	Soil	0-6	2.1	
	SS-G-3	8/2010	Soil	0-6	4.8	
	SS-G-4	8/2010	Soil	0-6	2.2	
	SED-G-1	8/2010	Sediment	0-6	0.97	
	SED-G-2	8/2010	Sediment	0-6	5.6	
H	SS-H-1	8/2010	Soil	0-6	1.1	
	SS-H-2	8/2010	Soil	0-6	2.6	
	SS-H-3	8/2010	Soil	0-6	1.2	
	SS-H-4	8/2010	Soil	0-6	6.4	
	SED-H-1	8/2010	Sediment	0-6	1.7	
	SED-H-2	8/2010	Sediment	0-6	6.2	
I	SS-I-1	8/2010	Soil	0-6	0.49	
	SS-I-2	8/2010	Soil	0-6	0.24	
	SS-I-3	8/2010	Soil	0-6	0.21	
	SS-I-4	8/2010	Soil	0-6	0.68	
	SED-I-1	8/2010	Sediment	0-6	2.9	
	SED-I-2	8/2010	Sediment	0-6	2.7	
J	SS-J-1	8/2010	Soil	0-6	3.2	
	SS-J-2	8/2010	Soil	0-6	12	
	SS-J-3	8/2010	Soil	0-6	0.95	
	SS-J-4	8/2010	Soil	0-6	0.44	
	SED-J-1	8/2010	Sediment	0-6	3.4	
	SED-J-2	8/2010	Sediment	0-6	16	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
1	SS-01A	4/2010	Soil	0-6	9.3	
	SS-01B	4/2010	Soil	0-6	3.3	
	SS-01B (6-11)	8/2010	Soil	6-11	3.3	
	SS-01C	8/2010	Soil	0-6	0.45	
	SS-01D	8/2010	Soil	0-6	37	
	SED-01A	4/2010	Sediment	0-6	4.5	
	SED-01B	4/2010	Sediment	0-6	7.4	
K	SS-K-1	8/2010	Soil	0-6	0.22	
	SS-K-2	8/2010	Soil	0-6	0.052	
	SS-K-3	8/2010	Soil	0-6	35	
	SS-K-4	8/2010	Soil	0-6	38	
	SED-K-1	8/2010	Sediment	0-6	2.2	
	SED-K-2	8/2010	Sediment	0-6	5.3	
2	SS-02A	4/2010	Soil	0-6	28	
	SS-02A (6-9)	8/2010	Soil	6-9	13	
	SS-02B [DUP-1]	4/2010	Soil	0-6	32 [30]	
	SS-02B (6-10)	8/2010	Soil	6-10	12	
	SS-02C	8/2010	Soil	0-6	29	
	SS-02D	8/2010	Soil	0-6	0.40	
	SS-02E	8/2010	Soil	0-6	25	
	SED-02A	4/2010	Sediment	0-6	10	
	SED-02B	4/2010	Sediment	0-6	5.8	
	SED-02C	4/2010	Sediment	0-6	9.5	
L	SS-L-1	8/2010	Soil	0-6	6.4	
	SS-L-2	8/2010	Soil	0-6	0.78	
	SS-L-3	8/2010	Soil	0-6	30	
	SS-L-4	8/2010	Soil	0-6	4.4	
	SS-L-5	8/2010	Soil	0-6	0.84	
	SED-L-1	8/2010	Sediment	0-6	5.6	
	SED-L-2	8/2010	Sediment	0-6	5.0	
3	SS-03A	4/2010	Soil	0-6	7.4	
	SS-03B	4/2010	Soil	0-6	18	
	SS-03B (6-9)	8/2010	Soil	6-9	63	
	SS-03C	8/2010	Soil	0-6	0.38	
	SS-03D	8/2010	Soil	0-6	6.4	
	SS-03E	8/2010	Soil	0-6	0.93	
	SS-03F	6/2011	Soil	0-6	0.32	
	SS-03F (6-12)	6/2011	Soil	6-12	3.7	
	SS-03G	6/2011	Soil	0-6	1.7	
	SS-03G (6-12)	6/2011	Soil	6-12	0.52	
	SS-03H	6/2011	Soil	0-6	33	
	SS-03H (6-12)	6/2011	Soil	6-12	35	
	SED-03A	4/2010	Sediment	0-6	1.8	
	SED-03B	4/2010	Sediment	0-6	3.3	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
M	SS-M-1	8/2010	Soil	0-6	7.9	
	SS-M-2	8/2010	Soil	0-6	10	
	SS-M-3	8/2010	Soil	0-6	1.2	
	SS-M-4	8/2010	Soil	0-6	12	
	SED-M-1	8/2010	Sediment	0-6	6.5	
	SED-M-2	8/2010	Sediment	0-6	3.1	
N	SS-N-1	8/2010	Soil	0-6	3.1	
	SS-N-2	8/2010	Soil	0-6	79	
	SS-N-2 (6-12)	6/2011	Soil	6-12	44	
	SS-N-3	8/2010	Soil	0-6	50	
	SS-N-3 (6-12)	6/2011	Soil	6-12	5.0	
	SS-N-4	8/2010	Soil	0-6	10	
	SS-N-5	8/2010	Soil	0-6	0.20	
	SS-N-6	6/2011	Soil	0-6	11	
	SS-N-6 (6-12)	6/2011	Soil	6-12	7.1	
	SS-N-7	6/2011	Soil	0-6	1.8	
	SS-N-7 (6-12)	6/2011	Soil	6-12	0.33	
	SS-N-8	6/2011	Soil	0-6	21	
	SS-N-8 (6-12)	6/2011	Soil	6-12	50	
	SS-N-9	6/2011	Soil	0-6	53	
	SS-N-9 (6-12)	6/2011	Soil	6-12	50	
	SS-N-10 [DUP-12]	6/2011	Soil	0-6	11 [11]	
	SS-N-10 (6-12)	6/2011	Soil	6-12	2.4	
	SS-N-11	6/2011	Soil	0-6	12	
	SS-N-11 (6-12)	6/2011	Soil	6-12	11	
	SED-N-1	8/2010	Sediment	0-6	5.2	
	SED-N-2	8/2010	Sediment	0-6	19	
O	SS-O-1	8/2010	Soil	0-6	0.22	
	SS-O-2	8/2010	Soil	0-6	2.7	
	SS-O-3	8/2010	Soil	0-6	3.0	
	SED-O-1	8/2010	Sediment	0-6	4.2	
	SED-O-2	8/2010	Sediment	0-6	22.6	
4	SS-04A	4/2010	Soil	0-6	5.4	
	SS-04B	4/2010	Soil	0-6	31	
	SS-04B (6-10)	8/2010	Soil	6-10	0.78	
	SS-04C	8/2010	Soil	0-6	0.32	
	SS-04D	8/2010	Soil	0-6	16	
	SED-04A	4/2010	Sediment	0-6	2.6	
	SED-04B	4/2010	Sediment	0-6	2.9	
P	SS-P-1	8/2010	Soil	0-6	0.37	
	SS-P-2	8/2010	Soil	0-6	3.6	
	SS-P-3	8/2010	Soil	0-6	6.4	
	SS-P-4	8/2010	Soil	0-6	28	
	SED-P-1	8/2010	Sediment	0-6	2.0	
	SED-P-2	8/2010	Sediment	0-6	3.2	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Q	SS-Q-1	8/2010	Soil	0-6	13	
	SS-Q-2	8/2010	Soil	0-6	1.5	
	SS-Q-3	8/2010	Soil	0-6	4.7	
	SS-Q-4	8/2010	Soil	0-6	3.4	
	SED-Q-1	8/2010	Sediment	0-6	6.3	
	SED-Q-2 [DUP-2]	8/2010	Sediment	0-6	4.0 [7.1]	
R	SS-R-1	8/2010	Soil	0-6	5.9	
	SS-R-2	8/2010	Soil	0-6	2.4	
	SS-R-3 [DUP-5]	8/2010	Soil	0-6	5.3 [8.0]	
	SS-R-4	8/2010	Soil	0-6	23	
	SED-R-1	8/2010	Sediment	0-6	1.8	
	SED-R-2 [DUP-3]	8/2010	Sediment	0-6	2.0 [2.3]	
S	SS-S-1	8/2010	Soil	0-6	5.3	
	SS-S-2	8/2010	Soil	0-6	39	
	SS-S-3	8/2010	Soil	0-6	4.4	
	SS-S-4	8/2010	Soil	0-6	0.33	
	SED-S-1	8/2010	Sediment	0-6	2.4	
	SED-S-2	8/2010	Sediment	0-6	3.6	
T	SS-T-1	8/2010	Soil	0-6	10	
	SS-T-2 [DUP-4]	8/2010	Soil	0-6	2.1 [2.4]	
	SED-T-1	8/2010	Sediment	0-6	3.2	
	SED-T-2	8/2010	Sediment	0-6	10	
U	SS-U-1	8/2010	Soil	0-6	2.2	
	SS-U-2 [DUP-6]	8/2010	Soil	0-6	88 [10]	
	SS-U-2	6/2011	Soil	0-6	22	
	SS-U-2 (6-12)	6/2011	Soil	6-12	3.3	
	SS-U-3	6/2011	Soil	0-6	14	
	SS-U-3 (6-12)	6/2011	Soil	6-12	12	
	SS-U-4	6/2011	Soil	0-6	2.3	
	SS-U-4 (6-12)	6/2011	Soil	6-12	2.1	
	SS-U-5	6/2011	Soil	0-6	11	
	SS-U-5 (6-12)	6/2011	Soil	6-12	20	
	SED-U-1	8/2010	Sediment	0-6	1.1	
	SED-U-2	8/2010	Sediment	0-6	0.80	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Judgmental	SS-JDG-1	8/2010	Soil	0-6	407	
	SS-JDG-1 (6-12)	6/2011	Soil	6-12	222	
	SS-JDG-1A	6/2011	Soil	0-6	29	
	SS-JDG-1A (6-12)	6/2011	Soil	6-12	4.7	
	SS-JDG-1B	6/2011	Soil	0-6	1.4	
	SS-JDG-1B (6-12) [DUP-11]	6/2011	Soil	6-12	0.49 [0.49]	
	SS-JDG-1C	6/2011	Soil	0-6	144	
	SS-JDG-1C (6-12)	6/2011	Soil	6-12	82	
	SS-JDG-2	8/2010	Soil	0-6	3.7	
	SS-JDG-3	8/2010	Soil	0-6	6.8	
	SS-JDG-4	8/2010	Soil	0-6	10	
	SS-JDG-5	8/2010	Soil	0-6	0.19	
	SS-JDG-6	8/2010	Soil	0-6	15	
	SS-JDG-7	8/2010	Soil	0-6	12	
	SS-JDG-8	8/2010	Soil	0-6	0.45	
	SS-JDG-9	8/2010	Soil	0-6	9.2	
	SS-JDG-10	8/2010	Soil	0-6	0.27	
	SS-JDG-11	8/2010	Soil	0-6	0.27	
Outside Extent of Stream	OES-N-1	January 2014	Soil	0-6	0.594	
			Soil	6-12	ND (0.0587)	
			Soil	12-16	ND (0.0581)	
	OES-N-2	January 2014	Soil	0-6	0.0557 J	
			Soil	6-12	ND (0.0632)	
			Soil	12-16	ND (0.0623)	
	OES-N-3	January 2014	Soil	0-6	0.277	
			Soil	6-12	ND (0.0681)	
	OES-N-4	January 2014	Soil	0-6	0.169	
			Soil	6-12	ND (0.0670)	
			Soil	12-18	ND (0.0636)	
	OES-N-5 [DUP-5]	January 2014	Soil	0-6	0.33 [0.511]	
	OES-N-6	January 2014	Soil	0-6	0.0447 J	
	OES-N-7 [DUP-7]	January 2014	Soil	0-6	ND (0.0563) [ND (0.0546)]	
	OES-N-8	January 2014	Soil	0-6	0.0555 J	
			Soil	6-8	ND (0.0621)	
	OES-N-9	January 2014	Soil	0-6	ND (0.0629)	
			Soil	6-8	ND (0.0550)	
	OES-N-10	January 2014	Soil	0-6	0.211	
	OES-N-11	January 2014	Soil	0-6	1.42	
			Soil	6-11	1.34	
	OES-N-12	January 2014	Soil	0-7	0.461	
	OES-N-13	January 2014	Soil	0-6	0.954	
			Soil	6-11	0.179	
	OES-N-14	January 2014	Soil	0-6	0.075	
			Soil	6-13	ND (0.0582)	
	OES-N-15	January 2014	Soil	0-6	0.0751	
			Soil	6-11	ND (0.0559)	
	OES-N-16	January 2014	Soil	0-7	0.0525 J	
	OES-N-17	January 2014	Soil	0-6	2.10	
			Soil	6-12	0.145	
			Soil	0-6	0.147	

Table A-2
Tributary T11A Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Outside Extent of Stream	OES-S-1	January 2014	Soil	6-12	0.0326 J	
			Soil	12-16	ND (0.0587)	
	OES-S-2	January 2014	Soil	0-6	0.144 J	
			Soil	6-12	0.136 J	
			Soil	12-14	ND (0.0677)	
	OES-S-3	January 2014	Soil	0-6	0.237	
			Soil	6-12	0.101	
			Soil	12-14	ND (0.0634)	
	OES-S-4	January 2014	Soil	0-6	0.356	
			Soil	6-11	0.44	
	OES-S-5	January 2014	Soil	0-5	0.0298 J	
	OES-S-6	January 2014	Soil	0-6	0.126	
			Soil	6-12	ND (0.0578)	
			Soil	12-14	ND (0.0615)	
	OES-S-7	January 2014	Soil	0-6	0.286	
			Soil	6-12	0.0735	
	OES-S-8	January 2014	Soil	0-6	ND (0.0608)	
			Soil	6-9	ND (0.0575)	
	OES-S-9	January 2014	Soil	0-5	0.189	
	OES-S-10 [DUP-8]	January 2014	Soil	0-6	107	
			Soil	6-12	37.1 [28.4]	
			Soil	12-15	1.96	
	OES-S-11	January 2014	Soil	0-6	0.0714	
			Soil	6-11	ND (0.0865)	
	OES-S-12	January 2014	Soil	0-7	0.0474 J	
	OES-S-13	January 2014	Soil	0-6	8.24	
			Soil	6-12	2.89	
	OES-S-14	January 2014	Soil	0-5	0.545	
Inside Extent of Stream	IES-1	January 2014	Soil	6-12	3.99	
	IES-2	January 2014	Soil	6-12	264	
	IES-3 [DUP-6]	January 2014	Soil	6-12	22.7 [26.8]	
	IES-4	January 2014	Soil	0-6	1.15	
	IES-5	January 2014	Soil	0-6	37	
	IES-6	January 2014	Soil	0-6	18.3	
	IES-7	January 2014	Sediment	0-6	14.2	
	IES-8	January 2014	Soil	6-12	0.253	
	IES-9	January 2014	Soil	0-6	11.9	
	IES-10	January 2014	Soil	0-6	5.87	
	IES-11	January 2014	Soil	0-6	1.06	
	IES-12	January 2014	Soil	0-6	12.5	
	IES-13	January 2014	Soil	0-6	52.4	

Abbreviations, Notes, and Definitions:

1. PCB = Polychlorinated Biphenyl Aroclor.
2. ppm = parts per million.
3. Samples results presented in brackets ("[ ]") are for duplicate samples.
4. J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
5. ND - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table A-3
Northwest Drainage Ditch 2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Northwest Drainage Ditch	DLL-SED12	6/9/2009	Sediment	0-6	0.17	EPA Samples
	DLL-SED12A	8/8/2009	Sediment	0-6	3.5 C	EPA Samples
	DLL-SED13	6/9/2009	Sediment	0-6	ND (0.042)	EPA Samples
	DLL-SED13A	8/8/2009	Sediment	0-6	ND (0.037)	EPA Samples

Abbreviations, Notes, and Definitions:

1. PCB = Polychlorinated Biphenyl Aroclor.
2. ppm = parts per million.
3. ND - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table A-4
Northwest Drainage Ditch Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Northwest Drainage Ditch	NWDD-SED-A3	December 2013	Sediment	0-6	ND (0.119)	
	NWDD-SED-A4 [DUP-1]	December 2013	Sediment	0-6	ND (0.0974) [ND (0.100)]	
	NWDD-SED-B1	December 2013	Sediment	6-10	ND (0.108)	
	NWDD-SED-B3	December 2013	Sediment	0-6	ND (0.0944)	
	NWDD-SED-B4	December 2013	Sediment	0-6	0.3499	
	NWDD-SED-B5	December 2013	Sediment	0-6	0.535	
	NWDD-SS-B1	December 2013	Soil	0-6	ND (0.0970)	
				6-11	0.0998	
	NWDD-SS-B2	December 2013	Soil	0-6	0.199	
				6-12	0.494	
	NWDD-SS-B3	December 2013	Soil	0-6	0.565	
				6-12	18.1	
	NWDD-SS-B4	December 2013	Soil	0-6	0.483	
				6-12	14.3	
	NWDD-SED-C3	December 2013	Sediment	0-6	0.138	
	NWDD-SED-C4	December 2013	Sediment	0-6	0.163	
	NWDD-SED-D3	December 2013	Sediment	0-6	0.239	
	NWDD-SED-E1	December 2013	Sediment	6-9	8.42	
	NWDD-SED-E3	December 2013	Sediment	0-6	1.481	
	NWDD-SS-E1	December 2013	Soil	0-6	0.657	
				6-12	1.39	
	NWDD-SS-E2	December 2013	Soil	0-6	0.138	
				6-12	ND (0.0695)	
	NWDD-SS-E3	December 2013	Soil	0-6	0.632	
				6-12	5.82	
	NWDD-SS-E4	December 2013	Soil	0-6	1.19	
				6-11	ND (0.0704)	
	NWDD-SED-F3	December 2013	Sediment	0-6	ND (0.0547)	
	NWDD-SED-F4	December 2013	Sediment	0-6	1.111	
	NWDD-SED-G3 [DUP-2]	December 2013	Sediment	0-6	1.278 [0.456]	
	NWDD-SED-G4	December 2013	Sediment	0-6	0.741	
	NWDD-SED-H3	December 2013	Sediment	0-6	0.156	
	NWDD-SED-H4	December 2013	Sediment	0-6	9.19	
	NWDD-SED-H5	December 2013	Sediment	0-6	1.15	
	NWDD-JDG-1	December 2013	Sediment	0-6	ND (0.0834)	
	NWDD-JDG-2	December 2013	Sediment	0-6	0.0928	
	NWDD-JDG-3	December 2013	Sediment	0-6	1.01	
	NWDD-JDG-4	December 2013	Sediment	0-6	ND (0.0825)	
	NWDD-JDG-5	December 2013	Sediment	0-6	0.201	
	NWDD-JDG-6	December 2013	Sediment	0-6	0.110	
	NWDD-JDG-7	December 2013	Sediment	0-6	1.23	
	NWDD-SED-A1	June 2011	Sediment	0-6	0.118	
	NWDD-SED-A2	June 2011	Sediment	0-6	2.91	
	NWDD-SED-B1 [DUP-3]	June 2011	Sediment	0-6	4.96 [6.07]	
	NWDD-SED-B2	June 2011	Sediment	0-6	ND (0.0648)	

Table A-4
Northwest Drainage Ditch Post-2009 Total PCB Aroclor Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Location	Sample Identification	Date	Matrix	Sample Interval (inches)	Result (ppm)	Comment
Western Drainageway						
Northwest Drainage Ditch	NWDD-SED-C1	June 2011	Sediment	0-6	0.618	
	NWDD-SED-C2	June 2011	Sediment	0-6	0.3486	
	NWDD-SED-D1	June 2011	Sediment	0-6	0.557	
	NWDD-SED-D2	June 2011	Sediment	0-6	0.584	
	NWDD-SED-E1	June 2011	Sediment	0-6	12.76	
	NWDD-SED-E2	June 2011	Sediment	0-6	0.73	
	NWDD-SED-F1	June 2011	Sediment	0-6	0.0925	
	NWDD-SED-F2	June 2011	Sediment	0-6	0.3959	
	NWDD-SED-G1	June 2011	Sediment	0-6	2.18	
	NWDD-SED-G2	June 2011	Sediment	0-6	1.63	
	NWDD-SED-H1	June 2011	Sediment	0-6	0.2158	
	NWDD-SED-H2	June 2011	Sediment	0-6	0.0874	

Abbreviations, Notes, and Definitions:

1. PCB = Polychlorinated Biphenyl Aroclor.
2. ppm = parts per million.
3. Samples results presented in brackets ("[ ]") are for duplicate samples.
4. ND - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table A-5
Summary of Historic PCB Data
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Sample Dates	Table Reference	Sample Area	Number of Samples	Percentage Non-Detect	Minimum Result	Maximum Result	Average	Median
2009	A-3	Northwest Drainage Ditch	4	50%	ND	3.50	0.93	0.096
	A-1	Tributary T11A	10	0%	0.19	22	3.6	0.73
Post-2009	A-4	Northwest Drainage Ditch	57	23%	ND	18	1.8	0.48
	A-2	Tributary T11A	304	8%	ND	1,340	25	2.7

Abbreviations, Notes, and Definitions:

1. PCB = Polychlorinated Biphenyl Aroclor.
2. Samples results are presented as parts per million.
3. ND - The compound was analyzed for but not detected.

APPENDIX B

Photographs of Habitat Assessment Activities

Appendix B1 – Wetland Delineation

Appendix B2 – Enhancement Structures

Appendix B3 – Bank Conditions and LWD

Appendix B4 – Vegetation Conditions

B1 - Wetland Delineation

Appendix B1 – Wetland Delineation

Photo No.	**Date**
1	4/17/2018

Direction Photo Taken:

Downstream/West

Description:

Wetland A – Data Point "A-Wet"

Appendix B1 – Wetland Delineation

Photo No.	**Date**
2	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland A soil

Photo No.	**Date**
3	4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Uplands surrounding Wetland A – Data Point "A-Up"

Photo No.	**Date**
4	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland A

Appendix B1 – Wetland Delineation

Photo No.	**Date**
5	4/17/2018

Direction Photo Taken:

Downstream/West

Description:

Wetland B – Data Point “B-Wet”

Photo No.
6

Date
4/17/2018

Direction Photo Taken:

Down

Description:

Wetland B soil

Photo No.	**Date**
7	4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Uplands surrounding Wetland B – Data Point "B-Up"

Photo No.	**Date**
8	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland B

Appendix B1 – Wetland Delineation

Photo No.	**Date**
9	4/17/2018

Direction Photo Taken:

Downstream/West

Description:

Wetland C – Data Point "C-Wet"

Photo No.	**Date**
10	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland C soil

Photo No.	**Date**
11	4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Uplands surrounding Wetland C – Data Point "C-Up"

Photo No.	**Date**
12	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland C

Photo No.	**Date**
13	4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Wetland H – Data Point "H1-Wet"

Photo No.	**Date**
14	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland H soil – Data Point "H1-Wet"

Photo No.	**Date**
15	4/17/2018

Direction Photo Taken:

Northeast

Description:

Uplands surrounding Wetland H – Data Point “H1-Up”

Photo No.	**Date**
16	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland H – Data Point "H1-Up"

Photo No. 17	**Date** 4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Wetland H – Data Point “H2-Wet

Photo No.	**Date**
18	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland H soil – Data Point “H2-Wet”

Photo No.	**Date**
19	4/17/2018

Direction Photo Taken:

West

Description:

Uplands surrounding Wetland H – Data Point “H2-Up”

Photo No.	**Date**
20	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland H – Data Point “H2-Up”

Photo No.	**Date**
21	4/17/2018

Direction Photo Taken:

Upstream/East

Description:

Wetland H – Data Point “H3-Wet

Photo No.	**Date**
22	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland H soil – Data Point “H3-Wet”

Photo No.	**Date**
23	4/17/2018

Direction Photo Taken:

Northwest

Description:

Uplands surrounding Wetland H – Data Point "H3-Up"

Photo No.	**Date**
24	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland H – Data Point "H3-Up"

Photo No.	**Date**
25	4/17/2018

Direction Photo Taken:

Downstream

Description:

Wetland J – Data Point “J-Wet

Photo No.	**Date**
26	4/17/2018

Direction Photo Taken:

Down

Description:

Wetland J soil

Photo No.	**Date**
27	4/17/2018

Direction Photo Taken:

Downstream

Description:

Uplands surrounding Wetland J – Data Point "J-Up"

Photo No.	**Date**
28	4/17/2018

Direction Photo Taken:

Down

Description:

Upland soil surrounding Wetland J

B2 - Enhancement Structures

Appendix B2 – Enhancement Structures

Photo No.	**Date**
1	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-1 Rock Bendway Weir

Photo No.	**Date**
2	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-2 Rock Vortex Weir

Photo No.	**Date**
3	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-3 Rock Check Dam

Appendix B2 – Enhancement Structures

Photo No.	**Date**
4	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-4 Log Check Dam

Photo No.
5

Date
11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-5 Step Pool Complex

Photo No.	**Date**
6	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-6 Rock Vortex Weir

Appendix B2 – Enhancement Structures

Photo No.	**Date**
7	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-7 Log Check Dam

Appendix B2 – Enhancement Structures

Photo No.	**Date**
8	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-8 Rock Check Dam

Appendix B2 – Enhancement Structures

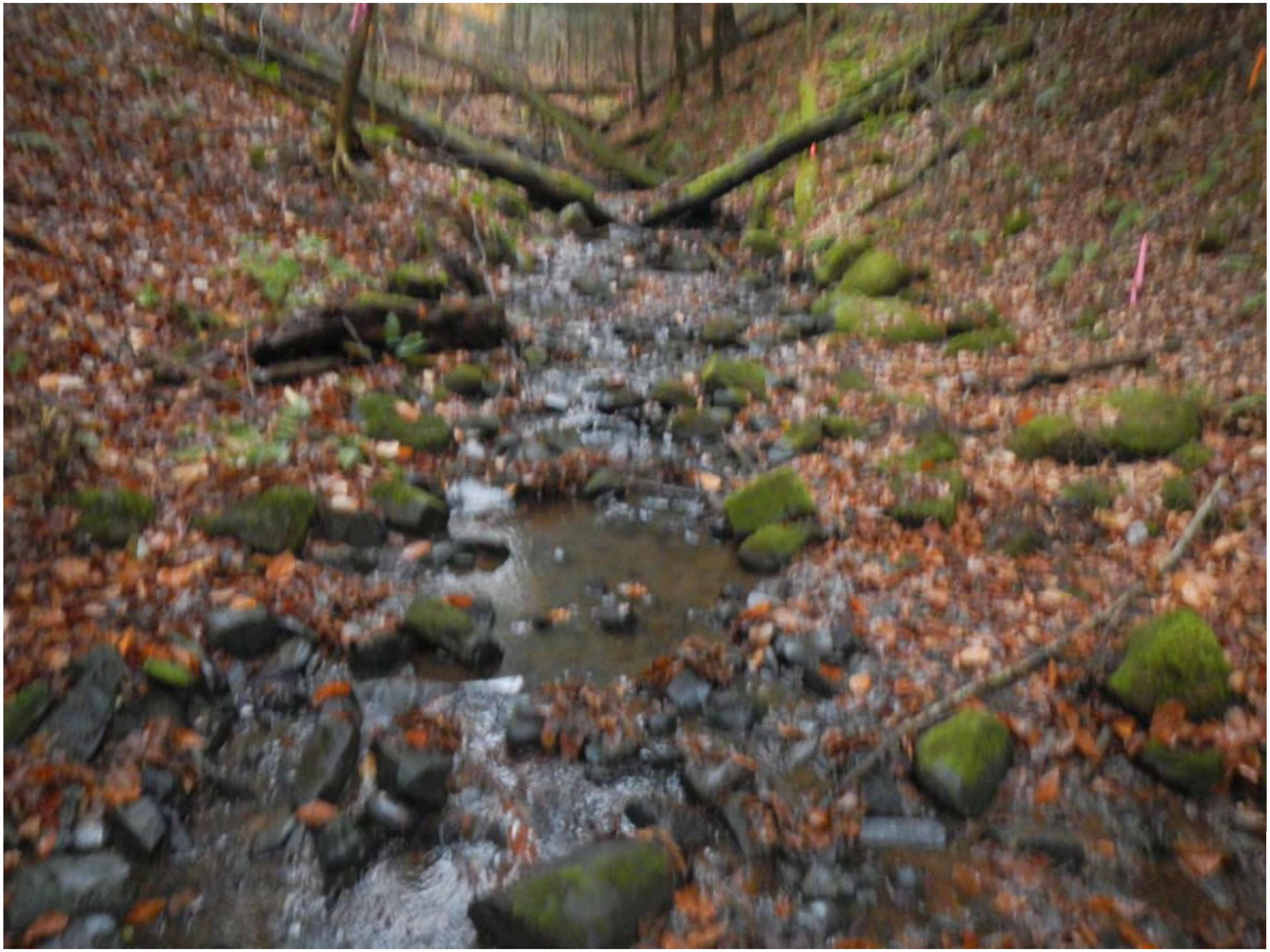
Photo No.	**Date**
9	11/2/2017

Direction Photo Taken:

Upstream

Description:

ES-9 Riffle Complex



B3 - Bank Conditions and LWD

Appendix B3 – Bank Conditions and LWD

Photo No.	**Date**
10	11/2/2017

Direction Photo Taken:

Left Bank

Description:

LWD protection to help prevent erosion.

Appendix B3 – Bank Conditions and LWD

Photo No.	**Date**
11	11/2/2017

Direction Photo Taken:

Right Bank

Description:

Large root wad providing shade and cover.

Appendix B3 – Bank Conditions and LWD

Photo No.
12

Date
11/2/2017

Direction Photo Taken:

Right Bank

Description:

Functional root wad providing bank stability on right bank.

Photo No.	**Date**
13	11/2/2017

Direction Photo Taken:

Upstream

Description:

Erosional area under root wad above constriction on left bank.

Appendix B3 – Bank Conditions and LWD

Photo No. 14	**Date** 11/2/2017

Direction Photo Taken:

Upstream

Description:

LWD functioning as cover and substrate.

Photo No.	Date
15	11/2/2017

Direction Photo Taken:

Upstream

Description:

Right bank erosion area; potential area for bendway weir.

Appendix B3 – Bank Conditions and LWD

Photo No.	**Date**
16	11/2/2017

Direction Photo Taken:

Left Bank

Description:

LWD acting as toe protection and cover.

Photo No.	**Date**
17	11/2/2017

Direction Photo Taken:

Downstream

Description:

LWD on right bank providing substrate and bank protection during high flows.

Appendix B3 – Bank Conditions and LWD

Photo No.	**Date**
18	11/2/2017

Direction Photo Taken:

Upstream

Description:

Erosion on right bank. Channel has shifted providing area suitable for stabilization and toe protection.

Appendix B3 – Bank Conditions and LWD

Photo No.	**Date**
19	11/2/2017

Direction Photo Taken:

Upstream

Description:

Erosion on right bank and area for potential bank stabilization.

B4 - Vegetation Conditions

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
20	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: A

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
21	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: B

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
22	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: C

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
23	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: D

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
24	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: E

Appendix B4 – Vegetation Conditions

Photo No. 25	**Date** 10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: F

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
26	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: G

Photo No.	**Date**
27	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: H

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
28	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: I

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
29	10/11/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: J

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
30	10/30/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: K

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
31	10/30/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: L

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
32	10/30/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: M

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
33	10/30/2017

Direction Photo Taken:

Downstream

Description:

Vegetation Monitoring Location: N

Appendix B4 – Vegetation Conditions

Photo No.	**Date**
34	10/30/2017

Direction Photo Taken:

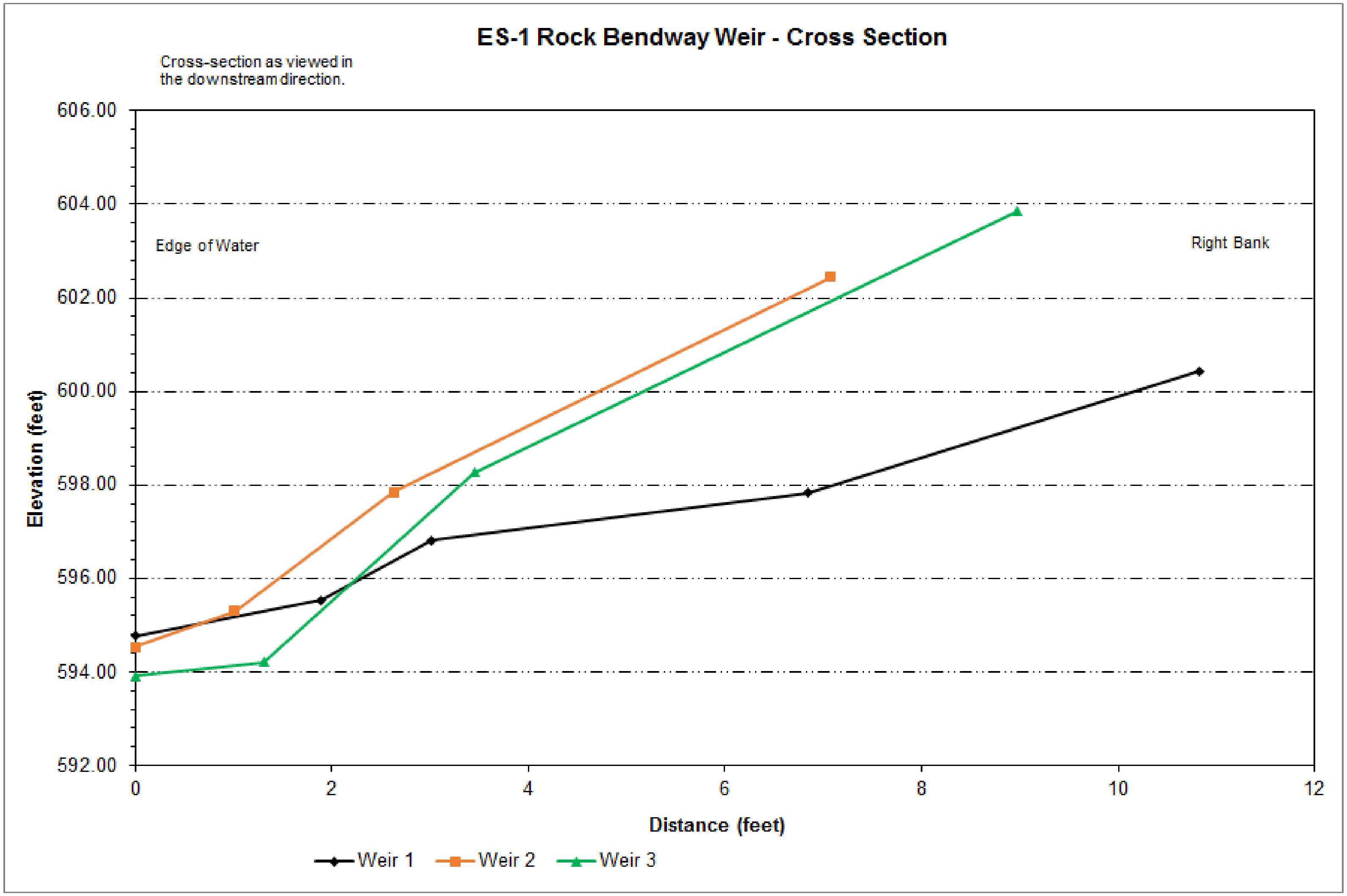
Downstream

Description:

Vegetation Monitoring Location: O

APPENDIX C

Tributary T11A Enhancement Structure Cross Sections

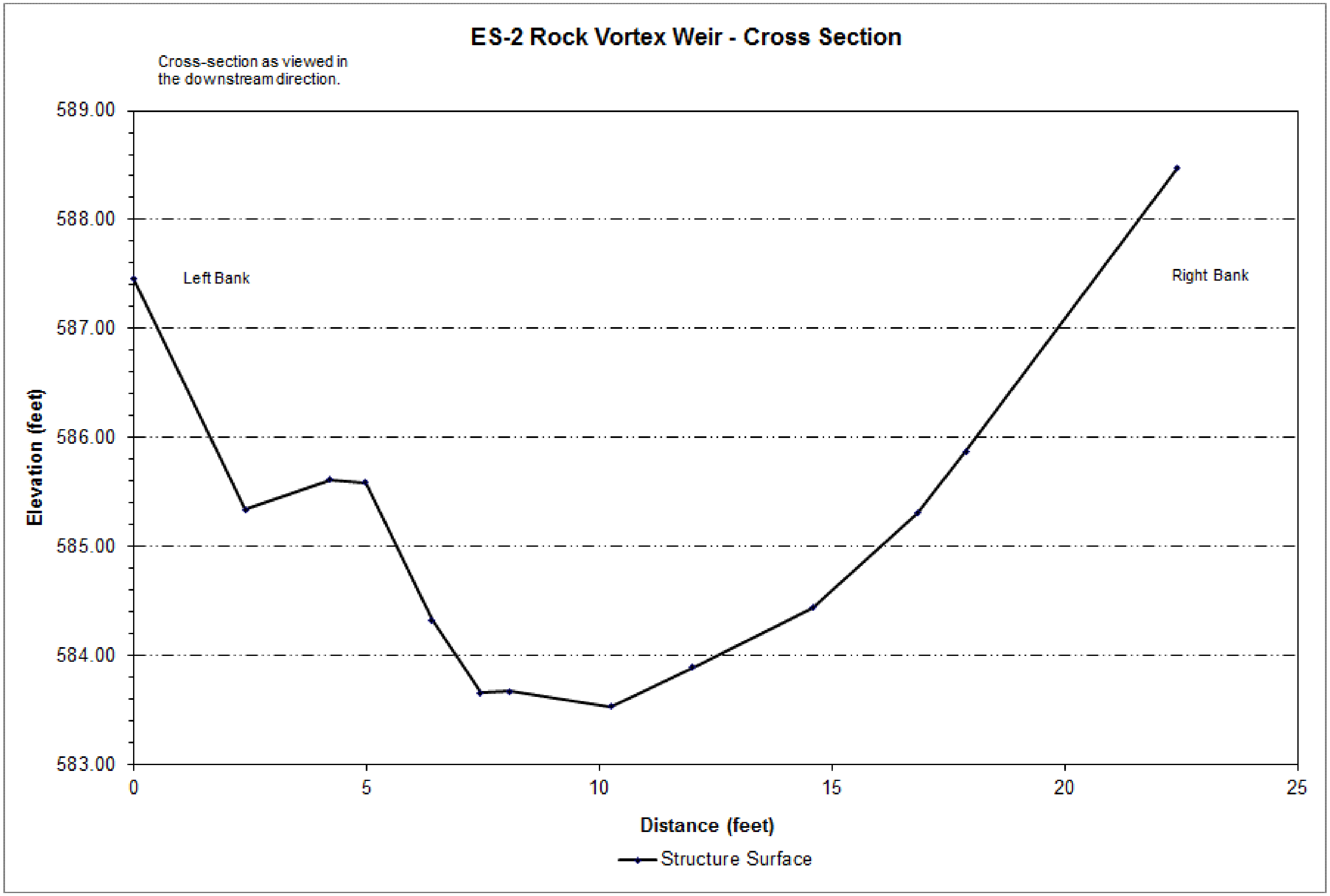


ES-1 Rock Bendway Weir - Cross Section

DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

FIGURE
C-1

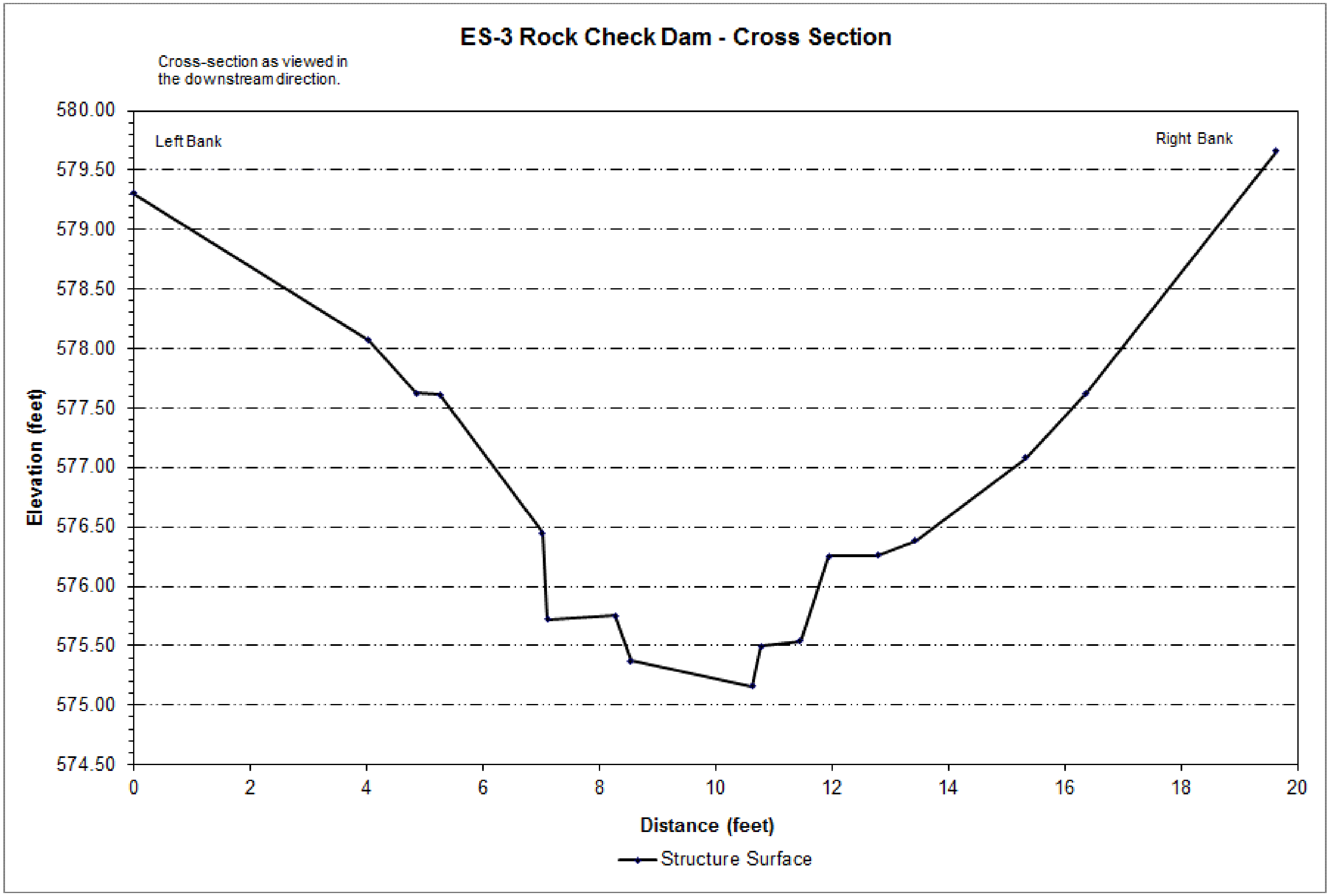


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-2



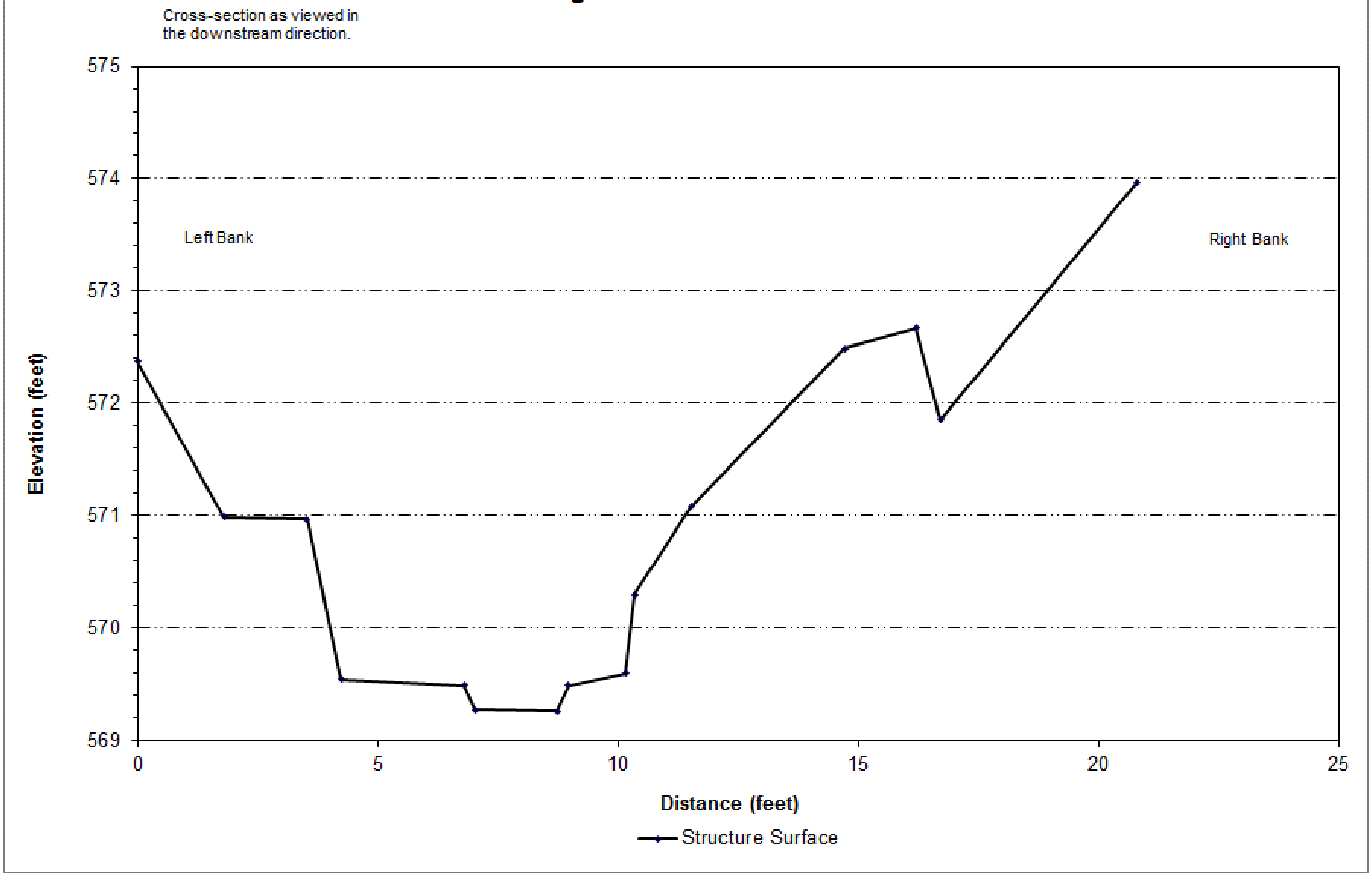
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-3

ES-4 Log Check Dam - Cross Section

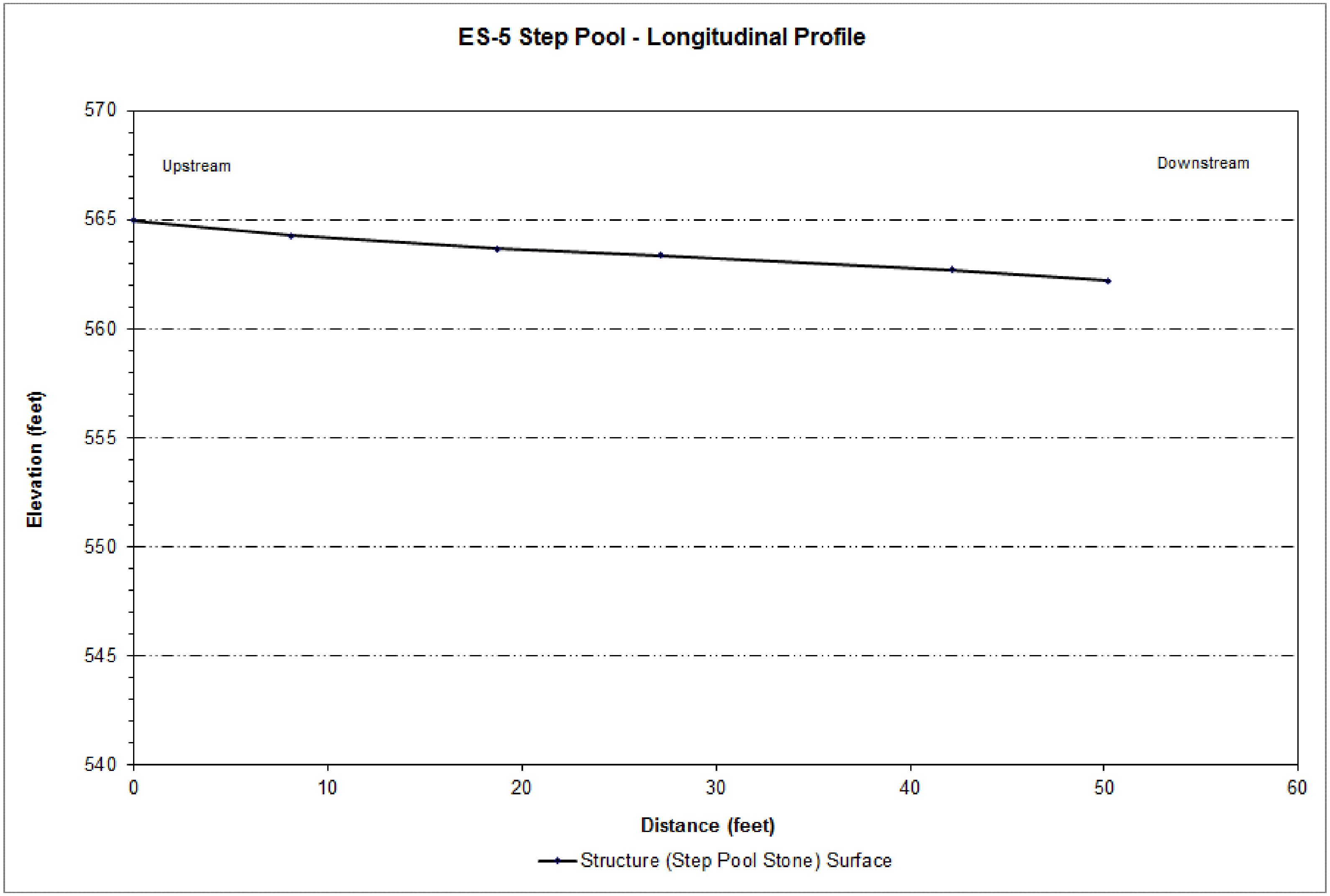


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-4

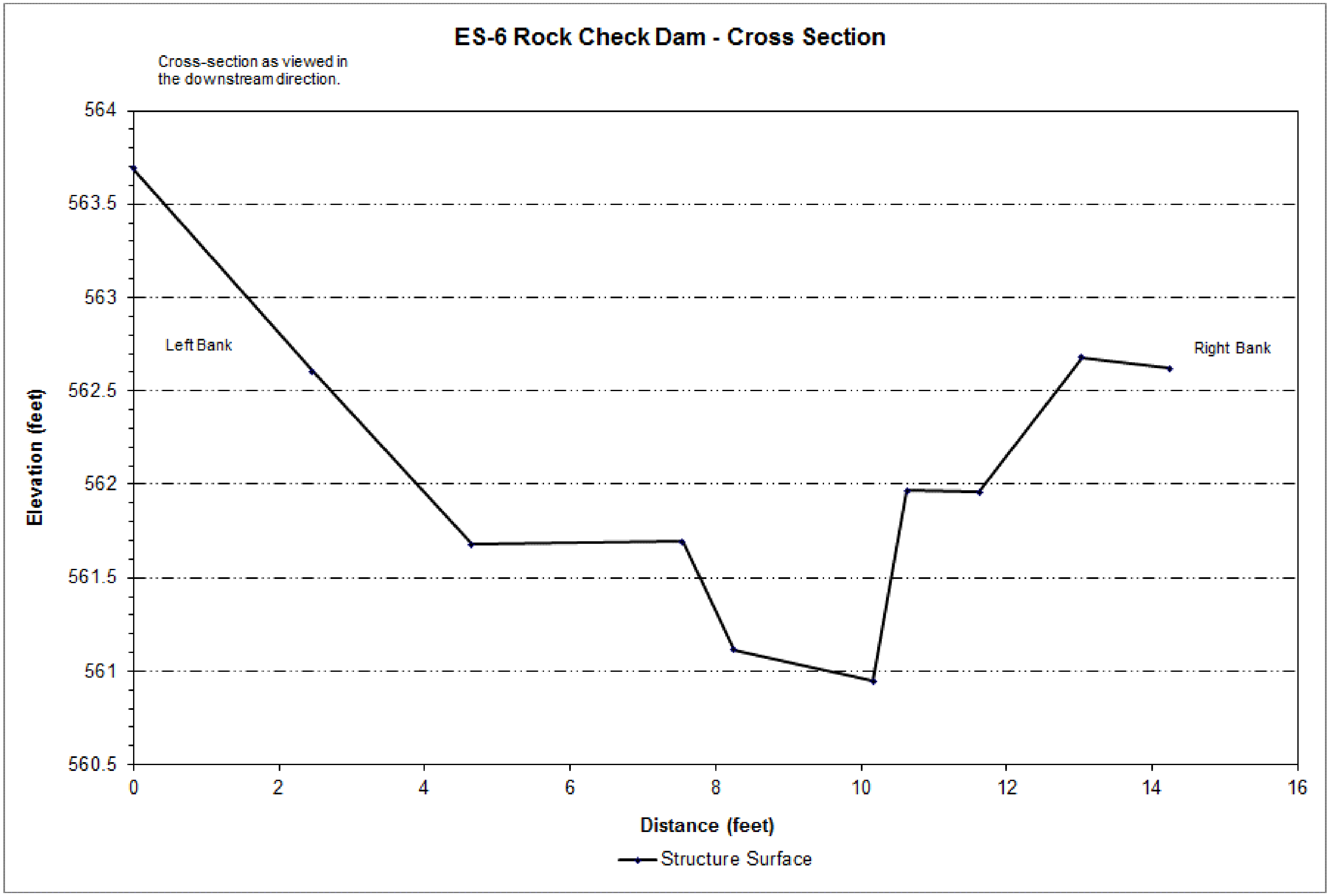


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-5



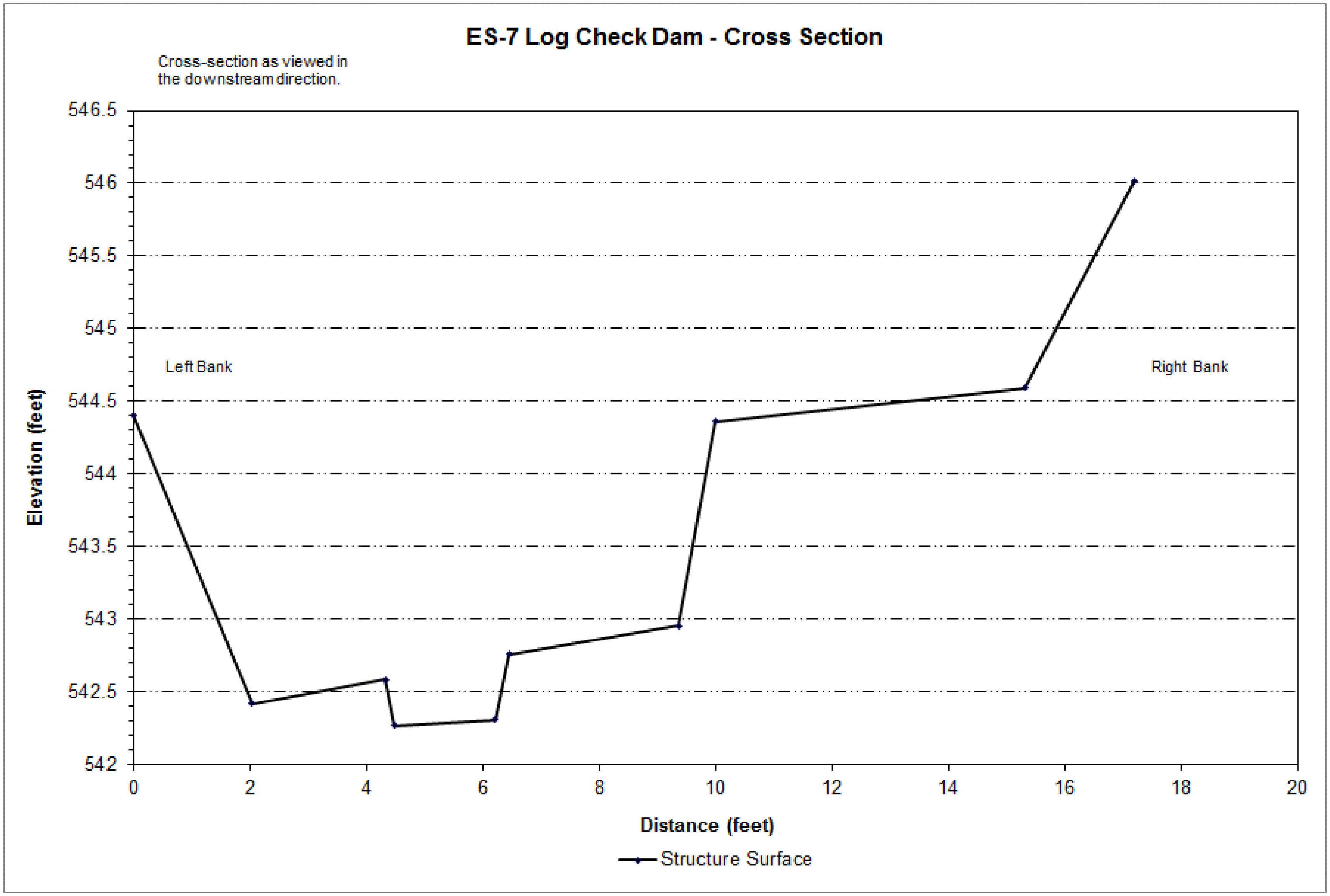
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-6

ES Cross-Section and Longitudinal Figures - 3/20/2018



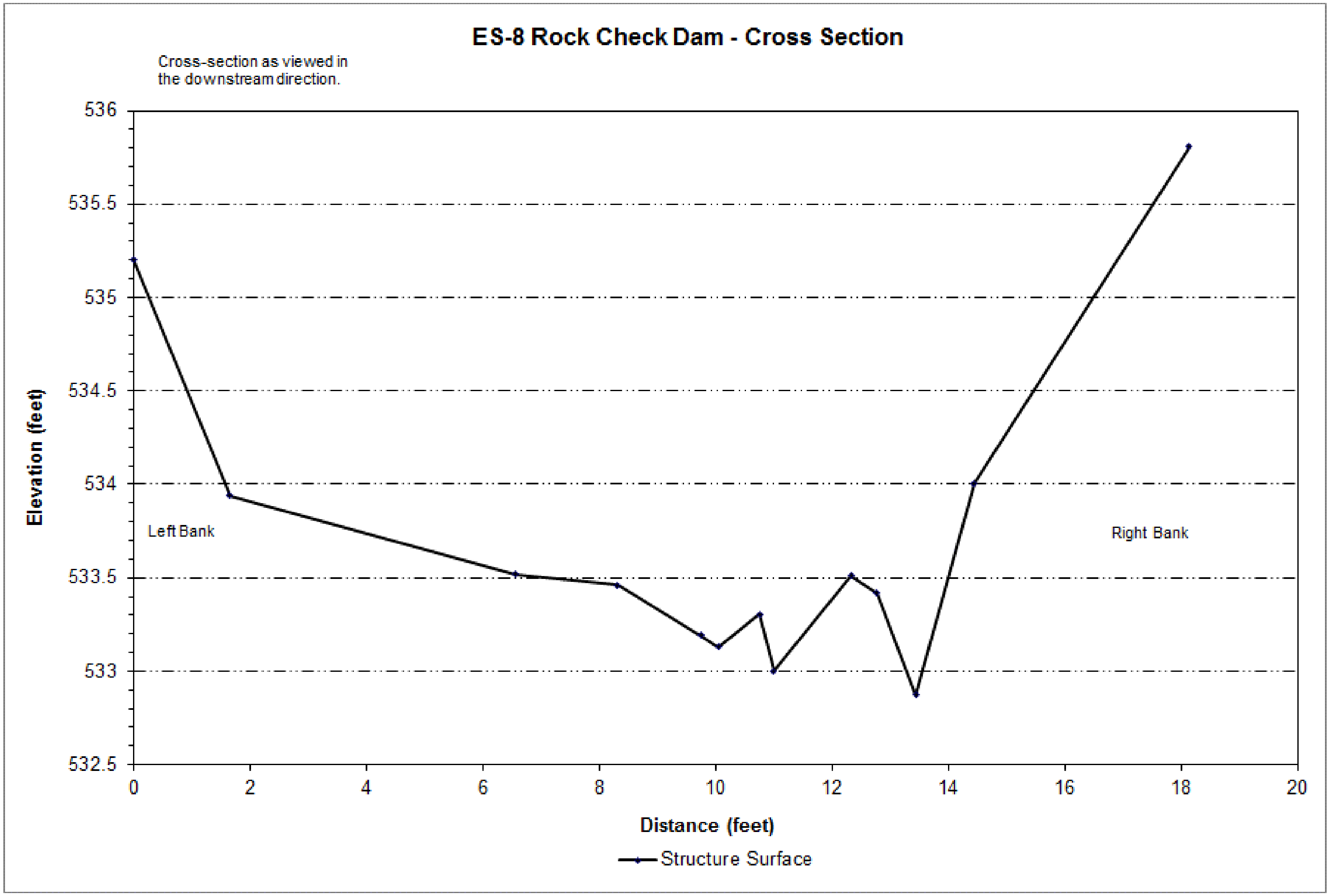
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-7

ES Cross-Section and Longitudinal Figures - 3/20/2018

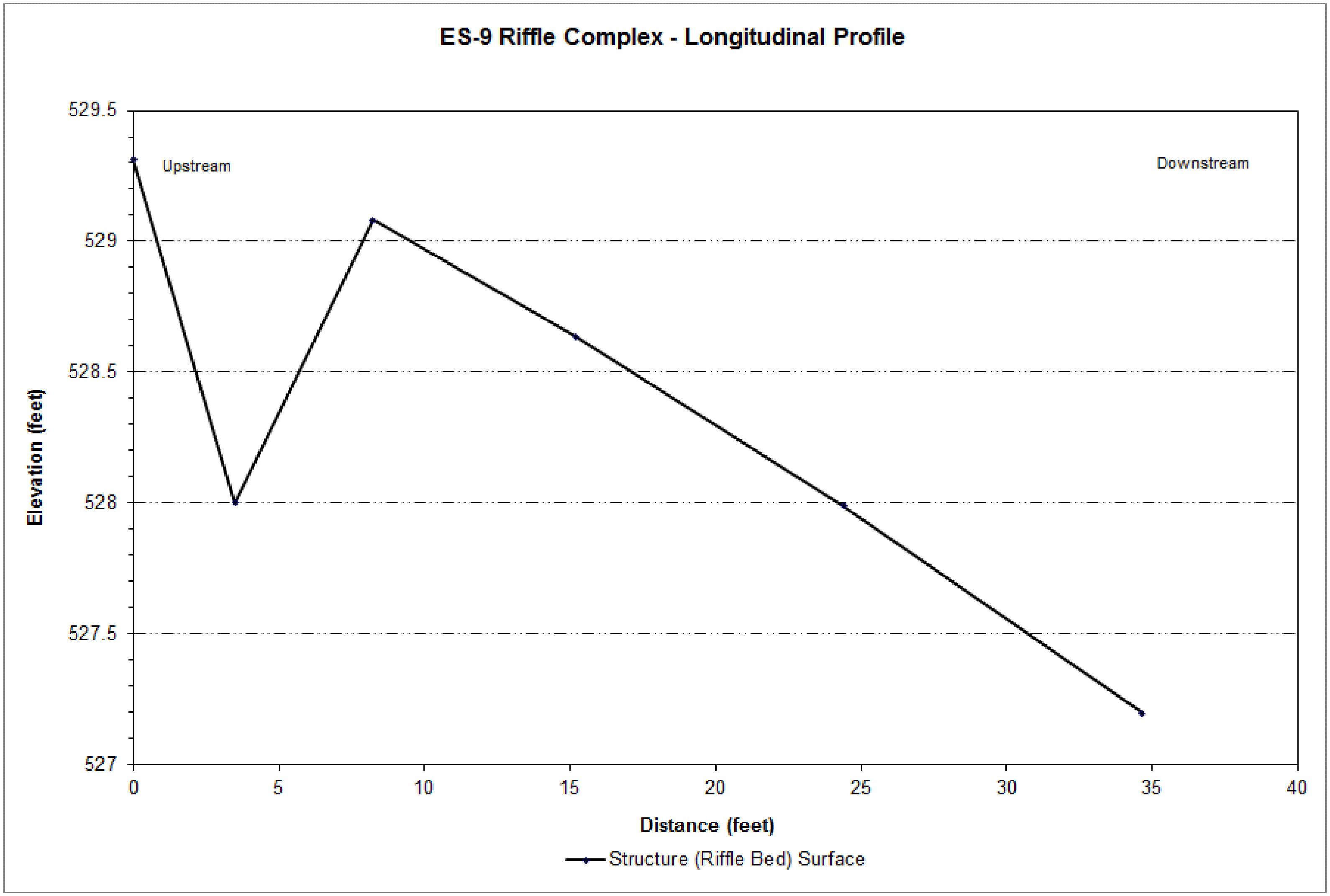


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-8



DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A ENHANCEMENT STRUCTURES

ARCADIS

FIGURE
C-9

APPENDIX D

Wetland Determination and SVAP Data Forms

Appendix D1 – Wetland Determination Data Forms

Appendix D2 – SVAP Forms

D1 - Wetland Determination Data Forms

October 2017 Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: A

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Flat, Floodplain Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: ___

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___ , Soil ___ , or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___ , Soil ___ , or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes ___ No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___

(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: A

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus strobus (White Pine)*	30	Yes	
2. *Betula lenta (Black Birch)*	10	Yes	
3. *Acer saccharinum (Sugar Maple)*	10	Yes	
4. *Tsuga canadensis (Eastern Hemlock)*	5	No	
5. *Fagus grandifolia (American Beech)*	5	No	
6.			
7.			
	60	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Carpinus caroliniana (Blue Beech)*	5	Yes	
2. *Fagus grandifolia (American Beech)*	5	Yes	
3. *(Oak Species)*	1	No	
4. *(Maple Species)*	1	No	
5. *Amelanchier canadensis (Serviceberry)*	5	Yes	
6. *Carya ovata (Shagbark Hickory)*	1	No	
7.			
	18	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Mitchella repens (Partridgeberry)*	5	No	
2. *Carex plantaginea (Plantain Sedge)*	15	Yes	
3. *Carex sp. (Carex Species)*	10	Yes	
4. *Vaccinium sp. (Blueberry Species)*	1	No	
5. *(Maple Species)*	2	No	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	33	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Adjacent to Tree 278B

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: B

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Flat, Floodplain Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: ___

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes ___ No ___

Is the Sampled Area
within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
___ Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Juglans nigra (Black Walnut)*	15	Yes	
2. *Betula lenta (Black Birch)*	15	Yes	
3. *Acer saccharinum (Sugar Maple)*	20	Yes	
4.			
5.			
6.			
7.			
	50	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fagus grandifolia (American Beech)*	20	Yes	
2. *Fraxinus pennsylvanica (Green Ash)*	25	Yes	
3. *Carpinus caroliniana (Blue Beech)*	5	No	
4. *Carya ovata (Shagbark Hickory)*	10	No	
5. *Crataegus monogyna (Hawthorn)*	5	No	
6. *Lonicera japonica (Honeysuckle)*	5	No	
7.			
	70	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Thelypteris noveboracensis (New York Fern)*	30	Yes	
2. *(Maple Species)*	5	No	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)
Downstream of Tree 73A.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: C

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 20-30

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ____ No ____

Hydric Soil Present? Yes ____ No ____

Wetland Hydrology Present? Yes ____ No ____

Is the Sampled Area within a Wetland? **Yes** ____ **No** ____

If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____

Water Table Present? Yes ____ No ____ Depth (inches): ____

Saturation Present? Yes ____ No ____ Depth (inches): ____
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ____ **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: C

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis (Eastern Hemlock)*	80	Yes	
2.			
3.			
4.			
5.			
6.			
7.			
	80	=Total Cover	
Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fagus grandifolia (American Beech)*	10	Yes	
2.			
3.			
4.			
5.			
6.			
7.			
	10	=Total Cover	
Herb Stratum (Plot size: 1 Meter)			
1. *Polystichum acrostichoides (Christmas Fern)*	10	Yes	
2. *Thelypteris noveboracensis (New York Fern)*	5	Yes	
3. *Dryopteris marginalis (Marginal Woodfern)*	5	Yes	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	20	=Total Cover	
Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Adjacent to Tree 96A.

SOIL

Sampling Point: ____________

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/2	100					Mucky Loam/Clay	Organic
4-12	2.5YR 2.5/2	95	5YR 4/6	5	RM	M	Sandy	Organic

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
X Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
X Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 12

Hydric Soil Present? **Yes** X **No** ___

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: D

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 20-30

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes ___ No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: D

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis (Eastern Hemlock)*	50	Yes	
2. *Betula alleghaniensis (Yellow Birch)*	30	Yes	
3.			
4.			
5.			
6.			
7.			
	80	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Betula alleghaniensis (Yellow Birch)*	10	Yes	
2. *Fraxinus pennsylvanica (Green Ash)*	5	Yes	
3. *Acer saccharinum (Sugar Maple)*	5	Yes	
4. *Rubus sp. (Raspberry/Blackberry Species)*	2	No	
5.			
6.			
7.			
	22	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Polystichum acrostichoides (Christmas Fern)*	40	Yes	
2. *Amphicarpaea bracteata (Hog peanut)*	20	Yes	
3. *(Maple Species)*	2	No	
4. *Thelypteris noveboracensis (New York Fern)*	15	No	
5. *Spahgnum sp. (Moss)*	10	No	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	87	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Upstream of Tree 105A, 106A, and 107A.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17
Applicant/Owner: GE/Arcadis State: NY Sampling Point: E
Investigator(s): JK, JM Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Flat, Floodplain Local relief (concave, convex, none): None Slope %: 0-5
Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984
Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ____ No ____	**Is the Sampled Area**	
Hydric Soil Present? Yes ____ No ____	**within a Wetland?**	**Yes** ____ **No** ____
Wetland Hydrology Present? Yes ____ No ____	If yes, optional Wetland Site ID:	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ Marl Deposits (B15)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Moss Trim Lines (B16)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____
Water Table Present? Yes ____ No ____ Depth (inches): ____
Saturation Present? Yes ____ No ____ Depth (inches): ____
(includes capillary fringe)

Wetland Hydrology Present? Yes ____ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: E

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fagus grandifolia (American Beech)*	25	Yes	
2. *Acer saccharum (Sugar Maple)*	40	Yes	
3. *Tsuga canadensis (Eastern Hemlock)*	20	Yes	
4.			
5.			
6.			
7.			
	85	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fagus grandifolia (American Beech)*	10	Yes	
2.			
3.			
4.			
5.			
6.			
7.			
	10	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Sphagnum sp. (Moss)*	20	Yes	
2. *Pilea pumila (Clearweed)*	10	No	
3. *Polygonum sagittatum (Arrowleaf Tearthumb)*	10	No	
4. *Carex sp. (Sedge species)*	20	Yes	
5. *Malva neglecta (Common Mallow)*	5	No	
6. *Solidago sp. (Goldenrod species)*	2	No	
7.			
8.			
9.			
10.			
11.			
12.			
	67	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Adjacent to Tree 128A

SOIL

Sampling Point: ____________

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features				Texture	Remarks
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]		
0-4	10YR 3/1	100					Mucky Loam/Clay	Organic

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
_X_ Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 4

Hydric Soil Present? **Yes** _X_ **No** ___

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: F

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are “Normal Circumstances” present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No ____	**Is the Sampled Area**	
Hydric Soil Present?	Yes ____ No ____	**within a Wetland?**	**Yes** ____ **No** ____
Wetland Hydrology Present?	Yes ____ No ____	If yes, optional Wetland Site ID:	____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ Marl Deposits (B15)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living Roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage Patterns (B10)
- ____ Moss Trim Lines (B16)
- ____ Dry-Season Water Table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ Shallow Aquitard (D3)
- ____ Microtopographic Relief (D4)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____

Water Table Present? Yes ____ No ____ Depth (inches): ____

Saturation Present? Yes ____ No ____ Depth (inches): ____
(includes capillary fringe)

Wetland Hydrology Present? Yes ____ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: F

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum (Sugar Maple)*	20	Yes	
2. *Tsuga canadensis (Eastern Hemlock)*	40	Yes	
3. *Fagus grandifolia (American Beech)*	5	No	
4. *Betula lenta (Black Birch)*	5	No	
5.			
6.			
7.			
	70	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fraxinus pennsylvanica (Green Ash)*	10	Yes	
2. *Fagus grandifolia (American Beech)*	5	Yes	
3. *Acer saccharinum (Sugar Maple)*	10	Yes	
4.			
5.			
6.			
7.			
	25	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Thelypteris noveboracensis (New York Fern)*	20	Yes	
2. *Polystichum acrostichoides (Christmas Fern)*	2	No	
3. *Sphagnum sp. (Moss)*	5	No	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	27	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Downstream of Tree 117B.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17
Applicant/Owner: GE/Arcadis State: NY Sampling Point: G
Investigator(s): JK, JM Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 0-5
Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984
Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ___ No ___	**Is the Sampled Area**
Hydric Soil Present?	Yes ___ No ___	**within a Wetland?** **Yes** ___ **No** ___
Wetland Hydrology Present?	Yes ___ No ___	If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___
Water Table Present? Yes ___ No ___ Depth (inches): ___
Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: G

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Betula alleghaniensis (Yellow Birch)*	5	No	
2. *Fagus grandifolia (American Beech)*	20	Yes	
3. *Tsuga canadensis (Eastern Hemlock)*	60	Yes	
4.			
5.			
6.			
7.			
	85	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fagus grandifolia (American Beech)*	5	Yes	
2. *Acer rubrum (Red Maple)*	20	Yes	
3.			
4.			
5.			
6.			
7.			
	25	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Thelypteris noveboracensis (New York Fern)*	25	Yes	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	0	x 1 =	0	
FACW species	0	x 2 =	0	
FAC species	0	x 3 =	0	
FACU species	0	x 4 =	0	
UPL species	0	x 5 =	0	
Column Totals:	0	(A)	0	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Downstream of Tree 92B.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: H

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes ___ No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis (Eastern Hemlock)*	65	Yes	
2. *Acer saccharum (Sugar Maple)*	50	Yes	
3.			
4.			
5.			
6.			
7.			
	115	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Fagus grandifolia (American Beech)*	20	Yes	
2. *Acer saccharum (Sugar Maple)*	30	Yes	
3.			
4.			
5.			
6.			
7.			
	50	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Thelypteris noveboracensis (New York Fern)*	35	Yes	
2. *Sphagnum sp. (Moss)*	10	Yes	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	45	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: I

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Slope, Ravine Local relief (concave, convex, none): None Slope %: 20-30

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravelly Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes ___ No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
___ Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: I

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Betula alleghaniensis (Yellow Birch)*	10	No	
2. *Hamamelis virginiana (Witch Hazel)*	25	Yes	
3. *Fagus grandifolia (American Beech)*	50	Yes	
4.			
5.			
6.			
7.			
	85	=Total Cover	
Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Betula alleghaniensis (Yellow Birch)*	10	Yes	
2. *Acer rubrum (Red Maple)*	10	Yes	
3.			
4.			
5.			
6.			
7.			
	20	=Total Cover	
Herb Stratum (Plot size: 1 Meter)			
1. *Thelypteris noveboracensis (New York Fern)*	30	Yes	
2. *Polystichum acrostichoides (Christmas Fern)*	25	Yes	
3. *Sphagnum sp. (Moss)*	5	No	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	60	=Total Cover	
Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0	(A)	0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 10 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: J

Investigator(s): JK, JM Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Flat, Floodplain Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No ____
Hydric Soil Present?	Yes ____	No ____
Wetland Hydrology Present?	Yes ____	No ____

Is the Sampled Area within a Wetland? **Yes** ____ **No** ____

If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ Marl Deposits (B15)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living Roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage Patterns (B10)
- ____ Moss Trim Lines (B16)
- ____ Dry-Season Water Table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ Shallow Aquitard (D3)
- ____ Microtopographic Relief (D4)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No ____	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: J

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra (Red Oak)*	50	Yes	
2. *Fagus grandifolia (American Beech)*	5	No	
3. *Acer saccharum (Sugar Maple)*	20	Yes	
4.			
5.			
6.			
7.			
	75	=Total Cover	

Sapling/Shrub Stratum (Plot size: 3 Meters)			
1. *Rosa multiflora (Multiflora Rose)*	15	Yes	
2. *Amelanchier canadensis (Serviceberry)*	10	Yes	
3. *Lonicera japonica (Honeysuckle)*	5	No	
4. *Hamamelis virginiana (Witch Hazel)*	10	Yes	
5. *Fagus grandifolia (American Beech)*	15	Yes	
6. *Quercus rubra (Red Oak)*	5	No	
7.			
	60	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Lycopus americana (Water Horehound)*	10	No	
2. *Pilea pumila (Clearweed)*	10	No	
3. *Thelypteris noveboracensis (New York Fern)*	15	Yes	
4. *Osmunda claytoniana (Interrupted Fern)*	5	No	
5. *Echinochloa crus-galli (Barnyardgrass)*	40	Yes	
6. *Carex sp. (Sedge Species)*	2	No	
7. *Rosa multiflora (Multiflora Rose)*	5	No	
8. *Galium palustris (Marsh Bedstraw)*	2	No	
9. *Lythrum salicaria (Purple Loosestrife)*	2	No	
10. *Polystichum acrostichoides (Christmas Fern)*	2	No	
11. *Sphagnum sp. (Moss)*	5	No	
12.			
	98	=Total Cover	

Woody Vine Stratum (Plot size: 3 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:		
OBL species	0	x 1 =	0	
FACW species	0	x 2 =	0	
FAC species	0	x 3 =	0	
FACU species	0	x 4 =	0	
UPL species	0	x 5 =	0	
Column Totals:	0	(A)	0	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Trib T11A Start, Down-Gradient of Access Path.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 30 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: K

Investigator(s): JK Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
X High Water Table (A2)
X Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)

X Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
X Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
X Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes X No ___ Depth (inches): 5

Saturation Present? Yes X No ___ Depth (inches): 0

(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Stream wetted width of 36 inches.Shallow buttressed root system

VEGETATION – Use scientific names of plants.

Sampling Point: K

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 Meters)			
1. *Fagus grandifolia (American Beech)*	15	Yes	FACU
2. *Betula lenta (Black Birch)*	20	Yes	FACU
3. *Betula papyrifera (Paper Birch)*	10	No	FACU
4. *Salix nigra (Black Willow)*	25	Yes	OBL
5.			
6.			
7.			
	70	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Juncus effusus (Soft Rush)*	30	Yes	OBL
2. *Plantago major (Common Plantain)*	10	No	FACU
3. *Fragaria vesca (Wild Strawberry)*	5	No	UPL
4. *Alliaria petiolata (Garlic Mustard)*	5	No	FACU
5. *Athyrium filix-femina (Northern Lady Fern)*	2	No	FAC
6. *Fallopia japonica (Japanese Knotweed)*	5	No	FACU
7. *Elymus repens (Quack Grass)*	15	Yes	FACU
8. *Onoclea sensiblis (Sensitive Fern)*	10	No	FACW
9.			
10.			
11.			
12.			
	82	=Total Cover	

Woody Vine Stratum (Plot size: 5 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:			Multiply by:	
OBL species	55	x 1 =	55	
FACW species	10	x 2 =	20	
FAC species	2	x 3 =	6	
FACU species	80	x 4 =	320	
UPL species	5	x 5 =	25	
Column Totals:	152	(A)	426	(B)

Prevalence Index = B/A = 2.80

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ####

Remarks: (Include photo numbers here or on a separate sheet.)
Trib T11A Start, Down-Gradient of Access Path.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 30 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: L

Investigator(s): JK Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___

Hydric Soil Present? Yes ___ No ___

Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): 0

Saturation Present? Yes X No ___ Depth (inches): 4

(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Stream wetted width of 50 inches.

VEGETATION – Use scientific names of plants.

Sampling Point: L

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 Meters)			
1. *Ulmus americana (American Elm)*	20	Yes	FACW
2. *Betula lenta (Black Birch)*	30	Yes	FACU
3. *Betula papyrifera (Paper Birch)*	15	Yes	FACU
4. *Salix nigra (Black Willow)*	5	No	OBL
5.			
6.			
7.			
	70	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Solidago gigantea (Giant Goldenrod)*	45	Yes	FACW
2. *Carex lurida (Lurid Sedge)*	20	No	OBL
3. *Galium palustre (Marsh Bedstraw)*	10	No	OBL
4. *Phragmites australis (Common Reed)*	20	No	FACW
5. *Fragaria fresca (Wild Strawberry)*	5	No	UPL
6. *Poa palustris (Fowl Bluegrass)*	30	Yes	FACW
7. *Symphyotrichum ericoides (White Aster)*	2	No	FAC
8. *Lythrum salicaria (Purple Loosestrife)*	5	No	OBL
9. *Euthamnia gramnifolia (Grass-Leaved Goldenrod)*	5	No	FAC
10.			
11.			
12.			
	142	=Total Cover	

Woody Vine Stratum (Plot size: 5 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	115	x 2 =	230
FAC species	7	x 3 =	21
FACU species	45	x 4 =	180
UPL species	5	x 5 =	25
Column Totals:	212 (A)		496 (B)

Prevalence Index = B/A = 2.34

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Trib T11A Start, Down-Gradient of Access Path.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 30 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: M

Investigator(s): JK Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): Concave Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes ___ No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? Yes ___ No ___
If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 1
Water Table Present? Yes X No ___ Depth (inches): 0
Saturation Present? Yes X No ___ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? Yes X No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Stream wetted width of 24 inches.

VEGETATION – Use scientific names of plants.

Sampling Point: M

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra (Black Willow)*	20	Yes	OBL
2. *Pinus strobus (White Pine)*	30	Yes	FACU
3. *Betula papyrifera (Paper Birch)*	15	Yes	FACU
4.			
5.			
6.			
7.			
	65 =Total Cover		

Herb Stratum (Plot size: 1 Meter)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Equisetum hyemale (Scouring Rush)*	50	Yes	FAC
2. *Lythrum salicaria (Purple Loosestrife)*	15	No	OBL
3. *Galium palustre (Marsh Bedstraw)*	15	No	OBL
4. *Panicum capillare (Witch Grass)*	2	No	FAC
5. *Salix nigra (Black Willow)*	10	No	OBL
6. *Carex lurida (Lurid Sedge)*	20	Yes	FACW
7. *Solidago gigantea (Giant Goldenrod)*	5	No	FACW
8.			
9.			
10.			
11.			
12.			
	117 =Total Cover		

Woody Vine Stratum (Plot size: 5 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	25	x 2 =	50
FAC species	52	x 3 =	156
FACU species	45	x 4 =	180
UPL species	0	x 5 =	0
Column Totals:	182 (A)		446 (B)

Prevalence Index = B/A = 2.45

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Trib T11A Start, Down-Gradient of Access Path.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 30 Oct. 17

Applicant/Owner: GE/Arcadis State: NY Sampling Point: N

Investigator(s): JK Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): None Slope %: 0-5

Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984

Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No ___	**Is the Sampled Area**
Hydric Soil Present?	Yes ___ No ___	**within a Wetland?** **Yes** ___ **No** ___
Wetland Hydrology Present?	Yes X No ___	If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 0.5

Water Table Present? Yes X No ___ Depth (inches): 0

Saturation Present? Yes X No ___ Depth (inches): 0

(includes capillary fringe)

Wetland Hydrology Present? Yes X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Stream wetted width of 66 inches.

VEGETATION – Use scientific names of plants.

Sampling Point: N

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Betula lenta (Black Birch)*	10	Yes	FACU
2. *Pinus strobus (White Pine)*	20	Yes	FACU
3. *Acer saccharinum (Silver Maple)*	10	Yes	FACW
4.			
5.			
6.			
7.			
	40	=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 Meters)			
1. *Salix nigra (Black Willow)*	30	Yes	OBL
2. *Acer saccharinum (Silver Maple)*	10	No	FACW
3. *Betula lenta (Black Birch)*	5	No	FACU
4. *Quercus rubra (Red Oak)*	15	Yes	FACU
5.			
6.			
7.			
	60	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Sparganium americanum (American Burr Reed)*	30	Yes	OBL
2. *Typha latifolia (Broad Leaf Cattail)*	35	Yes	OBL
3. *Solidago gigantea (Giant Goldenrod)*	10	No	FACW
4. *Equisetum arvense (Field Horsetail)*	2	No	FAC
5. *Echinochloa crus-galli (Barnyard Grass)*	5	No	FAC
6. *Poa palustris (Fowl Bluegrass)*	5	No	FACW
7. *Euthamnia gramnifolia (Grass-Leaved Goldenrod)*	5	No	FAC
8. *Lythrum salicaria (Purple Loosestrife)*	5	No	OBL
9.			
10.			
11.			
12.			
	97	=Total Cover	

Woody Vine Stratum (Plot size: 5 Meters)			
1. *Solanum dulcamara (Nightshade)*	10	Yes	FAC
2.			
3.			
4.			
	10	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	100	x 1 =	100
FACW species	35	x 2 =	70
FAC species	22	x 3 =	66
FACU species	50	x 4 =	200
UPL species	0	x 5 =	0
Column Totals:	207 (A)		436 (B)

Prevalence Index = B/A = 2.11

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Trib T11A Start, Down-Gradient of Access Path.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Loeffel Trib T11A City/County: Nassau, Rennselaer Sampling Date: 30 Oct. 17
Applicant/Owner: GE/Arcadis State: NY Sampling Point: O
Investigator(s): JK Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Stream Bank Local relief (concave, convex, none): None Slope %: 0-5
Subregion (LRR or MLRA): LRR R Lat: TBD Long: TBD Datum: WGS 1984
Soil Map Unit Name: HoC - Hoosick Sandy, Gravely Loam, NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes ___ No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** ___ **No** ___
If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- X Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes X No ___ Depth (inches): 14
Saturation Present? Yes X No ___ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Stream wetted width of 32 inches. Shallow buttressed roots.

VEGETATION – Use scientific names of plants.

Sampling Point: O

Tree Stratum (Plot size: 10 Meters)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Betula alleghaniensis (Yellow Birch)*	35	Yes	FAC
2. *Fraxinus pennsylvanica (Green Ash)*	5	No	FACW
3. *Betula lenta (Black Birch)*	10	Yes	FACU
4.			
5.			
6.			
7.			
	50	=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 Meters)			
1. *Quercus rubra (Red Oak)*	15	Yes	FACU
2. *Rubus allegheniensis (Wild Raspberry)*	10	No	FACU
3. *Betula alleghaniensis (Yellow Birch)*	25	Yes	FAC
4. *Betula lenta (Black Birch)*	10	No	FACU
5. *Salix nigra (Black Willow)*	5	No	OBL
6.			
7.			
	65	=Total Cover	

Herb Stratum (Plot size: 1 Meter)			
1. *Carex stricta (Tussock Sedge)*	25	Yes	OBL
2. *Solidago gigantea (Giant Goldenrod)*	10	Yes	FACW
3. *Rosa multiflora (Multiflora Rose)*	10	Yes	FACU
4. *Athyrium filix-femina (Northern Lady Fern)*	5	No	FAC
5. *Potentilla simplex (Cinquefoil)*	2	No	FACU
6. *Dichanthelium clandestinum (Deertongue)*	5	No	FACW
7. *Carex lurida (Lurid Sedge)*	10	Yes	OBL
8. *Salix nigra (Black Willow)*	5	No	OBL
9. *Rubus allegheniensis (Wild Raspberry)*	5	No	FACU
10.			
11.			
12.			
	77	=Total Cover	

Woody Vine Stratum (Plot size: 5 Meters)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	45	x 1 =	45	
FACW species	20	x 2 =	40	
FAC species	65	x 3 =	195	
FACU species	62	x 4 =	248	
UPL species	0	x 5 =	0	
Column Totals:	192	(A)	528	(B)

Prevalence Index = B/A = 2.75

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** #### **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: ____________

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 5/4	100					Sandy	
4-10	2.5Y 3/1	100					Sandy	Organic
10-16	2.5Y 2.5/1	100					Loamy/Clayey	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
X Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 16

Hydric Soil Present? **Yes** X **No** ___

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

April 2018 Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18
Applicant/Owner: General Electric Company State: NY Sampling Point: A-Up
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Forested Hillside/Ravine Local relief (concave, convex, none): None Slope %: 20-30%
Subregion (LRR or MLRA): LRR R Lat: ______ Long: ______ Datum: NAD 1983
Soil Map Unit Name: Hoosic Gravelly Sandy Loam NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No X
Hydric Soil Present? Yes ___ No X
Wetland Hydrology Present? Yes ___ No X

Is the Sampled Area within a Wetland? **Yes** ___ **No** X
If yes, optional Wetland Site ID: ______

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: A-Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis*	80	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	80	=Total Cover	
Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Fagus grandifolia*	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	10	=Total Cover	
Herb Stratum (Plot size: 1 m)			
1. *Polystichum acrostichoides*	10	Yes	FACU
2. *Thelypteris noveboracensis*	5	Yes	FAC
3. *Dryopteris marginalis*	5	Yes	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	20	=Total Cover	
Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	5	x 3 =	15
FACU species	105	x 4 =	420
UPL species	0	x 5 =	0
Column Totals:	110	(A)	435 (B)

Prevalence Index = B/A = 3.95

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Data from Veg Plot C (collected October 12, 2017).

SOIL

Sampling Point: A-Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 4/3	100					Sandy	w/ Silt and Loam, Organics, Pebbles

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______

Depth (inches): ______

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18
Applicant/Owner: General Electric Company State: NY Sampling Point: A-Wet
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Stream Floodplain Local relief (concave, convex, none): None Slope %: 0-5%
Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: NAD 1983
Soil Map Unit Name: Hoosic Gravelly Sandy Loam NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___
Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___
If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): 0
Water Table Present? Yes X No ___ Depth (inches): 6
Saturation Present? Yes X No ___ Depth (inches): 3
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: A-Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Betula alleghaniensis*			FAC
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Sphagnum sp.*			
2. *Lysimachia nummularia*			FACW
3. *Athyrium filix-femina*			FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

X Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: A-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	5YR 2.5/1	100					Sandy	Silty w/ Significant Organic
5-7	10YR 3/2	100					Sandy	w/ Pebbles
7-13	10YR 4/2	100					Sandy	w/ Pebbles

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
X Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
X Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 13

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18
Applicant/Owner: General Electric Company State: NY Sampling Point: B-Up
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Forested Hillside/Ravine Local relief (concave, convex, none): None Slope %: 20-30%
Subregion (LRR or MLRA): LRR R Lat: ____ Long: ____ Datum: NAD 1983
Soil Map Unit Name: Hoosic Gravelly Sandy Loam NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are “Normal Circumstances” present? Yes X No ____
Are Vegetation X, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ____ No X
Hydric Soil Present? Yes ____ No X
Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? **Yes** ____ **No** X
If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No X Depth (inches): ____
Water Table Present? Yes ____ No X Depth (inches): ____
Saturation Present? Yes ____ No X Depth (inches): ____
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B-Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis*			FACU
2. *Acer saccharum*			FACU
3. *Fagus grandifolia*			FACU
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Carpinus caroliniana*			FAC
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Thelypteris noveboracensis*			FAC
2. *Polystichum acrostichoides*			FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

X Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: B-Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	5YR 3/3						Sandy	Silty w/ Organics
5-18	10YR 5/4						Sandy	Trace Silt and Clay

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____________

Depth (inches): ____________

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18

Applicant/Owner: General Electric Company State: NY Sampling Point: B-Wet

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Stream Floodplain/Drainage Local relief (concave, convex, none): Convex Slope %: 0-5%

Subregion (LRR or MLRA): LRR R Lat: ____ Long: ____ Datum: NAD 1983

Soil Map Unit Name: Hoosic Gravelly Sandy Loam NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___

Hydric Soil Present? Yes X No ___

Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___

If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- X Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 0.5

Water Table Present? Yes X No ___ Depth (inches): 0

Saturation Present? Yes X No ___ Depth (inches): 0

(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: B-Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 1 m)			
1. *Sphagnum*	20	Yes	
2. *Pilea pumila*	10	No	FACW
3. *Polygonum sagittum*	10	No	OBL
4. *Carex*	20	Yes	
5. *Malva neglecta*	5	No	FACW
6. *Solidago*	2	No	
7.			
8.			
9.			
10.			
11.			
12.			
	67 =Total Cover		
Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	15	x 2 =	30
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	25	(A)	40 (B)

Prevalence Index = B/A = 1.60

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Data from Veg Plot E (collected October 12, 2017).

SOIL

Sampling Point: B-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	5Y 3/1	95	10YR 5/4	5	RM	M	Sandy	Organic

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
X Stripped Matrix (S6)
X Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock
Depth (inches): 6

Hydric Soil Present? **Yes** X **No** ____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18
Applicant/Owner: General Electric Company State: NY Sampling Point: C-Up
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Small Hilltop Near Stream Local relief (concave, convex, none): Concave Slope %: 5-10%
Subregion (LRR or MLRA): LRR R Lat: ______ Long: ______ Datum: WGS 1984
Soil Map Unit Name: Fredon Silt Loam NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___
Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No X
Hydric Soil Present? Yes ___ No X
Wetland Hydrology Present? Yes ___ No X

Is the Sampled Area within a Wetland? **Yes** ___ **No** X
If yes, optional Wetland Site ID: ______

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: C-Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*			FAC
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Pinus strobus*			FACU
2. *Carpinus caroliniana*			FAC
3. *Fagus grandifolia*			FACU
4. *Rosa multiflora*			FACU
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Mitchella repens*			FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: C-Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features				Texture	Remarks
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]		
0-18	10YR 5/2	100					Sandy	w/ Silt and Clay, Medium Pebbles

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______

Depth (inches): ______

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18

Applicant/Owner: General Electric Company State: NY Sampling Point: C-Wet

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Basin, Drainageway Local relief (concave, convex, none): Concave Slope %: 0-5%

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: NAD 1983

Soil Map Unit Name: Fredon Silt Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___

Hydric Soil Present? Yes X No ___

Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- X Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 2

Water Table Present? Yes X No ___ Depth (inches): 0

Saturation Present? Yes X No ___ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: C-Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Ulmus americana*	20	Yes	FACW
2. *Betula lenta*	30	Yes	FACU
3. *Betula papyrifera*	15	Yes	FACU
4. *Salix nigra*	5	No	OBL
5.			
6.			
7.			
	70	=Total Cover	

Herb Stratum (Plot size: 1 m)			
1. *Solidago gigantea*	45	Yes	FACW
2. *Carex lurida*	20	No	OBL
3. *Galium palustre*	10	No	OBL
4. *Phragmites australis*	20	No	FACW
5. *Fragaria fresca*	5	No	UPL
6. *Poa palustris*	30	Yes	FACW
7. *Symphyotrichum ericoides*	2	No	FACU
8. *Lythrum salicaria*	5	No	OBL
9. *Euthamia graminifolia*	5	No	FAC
10.			
11.			
12.			
	142	=Total Cover	

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	115	x 2 =	230
FAC species	5	x 3 =	15
FACU species	47	x 4 =	188
UPL species	5	x 5 =	25
Column Totals:	212	(A)	498 (B)

Prevalence Index = B/A = 2.35

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Data from Veg Plot L (collected October 31, 2017).

SOIL

Sampling Point: C-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-2	5Y 2.5/2	100					Mucky Sand	w/ Silt and Heavy Organics, Peaty
2-8	5Y 5/1	95	10YR 4/6	5	RM	M	Mucky Loam/Clay	Organics, Silt, Clay

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- X Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 8

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 29 March 18

Applicant/Owner: General Electric Company State: NY Sampling Point: H1 - Up

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Upslope of Pond Local relief (concave, convex, none): None Slope %: 0-5%

Subregion (LRR or MLRA): LRR R Lat: 42.5610733° N Long: 73.5633721° W Datum: NAD 1983

Soil Map Unit Name: Fredon Silt Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ___	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ___	No X	**within a Wetland?** **Yes** ___ **No** X
Wetland Hydrology Present?	Yes ___	No X	If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ? Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H1 - Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*			FACU
2. *Prunus serotina*			FACU
3. *Pinus strobus*			FACU
4. *Betula papyrifera*			FACU
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Rosa multiflora*			FACU
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Mitchella repens*			FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ____ (A)

Total Number of Dominant Species Across All Strata: ____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: H1 - Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	5YR 4/3	100					Sandy	Sandy Silt-Loam

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 6

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 29 March 18
Applicant/Owner: General Electric Company State: NY Sampling Point: H1 - Wet
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Adjacent to Shore of Pond Local relief (concave, convex, none): None Slope %: 0-5%
Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: NAD 1983
Soil Map Unit Name: Fredon Silt Loam NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___
If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
X High Water Table (A2)
X Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)

X Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
X Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
X Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes X No ___ Depth (inches): 4
Saturation Present? Yes X No ___ Depth (inches): 1
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H1 - Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus pennsylvanica*			FACW
2. *Ulmus americana*			FACW
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Carpinus caroliniana*			FAC
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Herb Stratum (Plot size: 1 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Onoclea sensibilis*			FACW
2. *Carex vulpinoidea*			OBL
3. *Sphagnum*			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		=Total Cover	

Woody Vine Stratum (Plot size: 5 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ____ (A)

Total Number of Dominant Species Across All Strata: ____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
_X_ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** _X_ **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: H1 - Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	2.5Y 2.5/1	80	7.5YR 6/6	20			Mucky Loam/Clay	Trace Silt and Sand
5-16	5YR 4/1	50	7.5YR 6/6	35	RM	M	Mucky Loam/Clay	Trace Silt and Sand
			N 2.5/	15	RM	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
X Depleted Below Dark Surface (A11)
X Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
X Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
X Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______

Depth (inches): ______

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 29 March 18

Applicant/Owner: General Electric Company State: NY Sampling Point: H2 - Up

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Upslope of Pond Local relief (concave, convex, none): None Slope %: 0-5%

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: WGS 1984

Soil Map Unit Name: Fredon Silt Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No X

Hydric Soil Present? Yes ___ No X

Wetland Hydrology Present? Yes ___ No X

Is the Sampled Area within a Wetland? **Yes** ___ **No** X

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H2 - Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Prunus serotina*			FACU
2. *Quercus rubra*			FACU
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Betula papyrifera*			FACU
2. *Rosa multiflora*			FACU
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ________ (A)

Total Number of Dominant Species Across All Strata: ________ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ________ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A = ________

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: H2 - Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 4/3	100					Sandy	Trace Silt and Clay
4-18	2.5Y 5/4	100					Sandy	Trace Silt and Clay

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______________________

Depth (inches): ______________________

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 29 March 18

Applicant/Owner: General Electric Company State: NY Sampling Point: H2 - Wet

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Wet Meadow/Emergent Local relief (concave, convex, none): Convex Slope %: 0-2

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: WGS 1984

Soil Map Unit Name: Fredon Silt Loam NWI classification: Palustrine Emergent

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___
If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- X Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 1
Water Table Present? Yes X No ___ Depth (inches): 0
Saturation Present? Yes X No ___ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H2 - Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus pennsylvanica*			FACW
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Salix discolor*			FACW
2.			
3.			
4.			
5.			
6.			
7.			
		=Total Cover	

Herb Stratum (Plot size: 1 m)			
1. *Phalaris arundinacea*			FACW
2. *Typha latifolia*			OBL
3. *Juncus effusus*			OBL
4. *Onoclea sensibilis*			FACW
5. *Sphagnum*			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		=Total Cover	

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: H2 - Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5YR 4/2	80	5YR 4/4	20	RM	M	Mucky Loam/Clay	Silty

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
X Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
X Stripped Matrix (S6)
___ Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 12

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18

Applicant/Owner: General Electric Company State: NY Sampling Point: H3 - Up

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Upslope of Drainage Channel Local relief (concave, convex, none): None Slope %: 0-2

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: WGS 1984

Soil Map Unit Name: Fredon Silt Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes ___ No X

Wetland Hydrology Present? Yes ___ No X

Is the Sampled Area within a Wetland? **Yes** ___ **No** X

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
___ Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H3 - Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Rosa multiflora*			FACU
2. *Betula papyrifera*			FACU
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Solidago canadensis*			FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ____ **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: H3 - Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	5YR 4/3	100					Sandy	Sandy Silt-Loam

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)
___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18

Applicant/Owner: General Electric Company State: NY Sampling Point: H3 - Wet

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Drainage Channel Local relief (concave, convex, none): None Slope %: 0-2

Subregion (LRR or MLRA): LRR R Lat: ____ Long: ____ Datum: WGS 1984

Soil Map Unit Name: Fredon Silt Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation X, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ____
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? **Yes** X **No** ____
If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- X Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ____ Depth (inches): 2
Water Table Present? Yes X No ____ Depth (inches): 0
Saturation Present? Yes X No ____ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: H3 - Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Alnus incana*			FACW
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 1 m)			
1. *Onoclea sensibilis*			FACW
2. *Phragmites australis*			FACW
3. *Carex vulpinoidea*			OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		
Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: H3 - Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-5	5Y 3/2	100					Sandy	w/ Silt and Clay, Organics and Pebbles
5-6	5Y 4/2	100					Sandy	w/ Organics
6-18	5Y 4/1	90	7.5YR 4/4	10	RM	M	Loamy/Clayey	Silt and Clay

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
X Depleted Below Dark Surface (A11)
X Thick Dark Surface (A12)
X Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
___ Stripped Matrix (S6)
___ Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______

Depth (inches): ______

Hydric Soil Present? **Yes** X **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18
Applicant/Owner: General Electric Company State: NY Sampling Point: J-Up
Investigator(s): JK Section, Township, Range: NA
Landform (hillside, terrace, etc.): Elevated Bench of Stream Local relief (concave, convex, none): None Slope %: 5-10%
Subregion (LRR or MLRA): LRR R Lat: ______ Long: ______ Datum: WGS 1984
Soil Map Unit Name: Hoosic Gravely Sandy Loam NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___
Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___
Hydric Soil Present? Yes ___ No X
Wetland Hydrology Present? Yes ___ No X

Is the Sampled Area within a Wetland? **Yes** ___ **No** X
If yes, optional Wetland Site ID: ______

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)

___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
___ Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? Yes ___ No X Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: J-Up

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tsuga canadensis*	50	Yes	FACU
2. *Betula alleghaniensis*	30	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	80	=Total Cover	
Sapling/Shrub Stratum (Plot size: 5 m)			
1. *Betula alleghaniensis*	10	Yes	FAC
2. *Fraxinus pennsylvanica*	5	Yes	FACW
3. *Acer saccharum*	5	Yes	FACU
4. *Rubus*	2	No	
5.			
6.			
7.			
	22	=Total Cover	
Herb Stratum (Plot size: 1 m)			
1. *Polystichum acrostichoides*	40	Yes	FACU
2. *Amphicarpaea bracteata*	20	Yes	FAC
3. *Acer*	2	No	
4. *Thelypteris noveboracensis*	15	No	FAC
5. *Sphagnum*	10	No	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	87	=Total Cover	
Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	75	x 3 =	225
FACU species	95	x 4 =	380
UPL species	0	x 5 =	0
Column Totals:	175	(A)	615 (B)

Prevalence Index = B/A = 3.51

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Data from Veg Plot D (collected October 12, 2017).

SOIL

Sampling Point: J-Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/3	100					Sandy	w/ Silt, Organics, and Small Cobbles
6-12	7.5YR 4/4	100					Sandy	w/ Silt, Clay, Org, Med. Cobbles
12-18	5Y 5/1	100					Loamy/Clayey	Silty Clay w/ Trace Sand

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (inches): ____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Dewey Loeffel Landfill Superfund Site City/County: Nassau, Rensselaer Sampling Date: 17 April 18

Applicant/Owner: General Electric Company State: NY Sampling Point: J-Wet

Investigator(s): JK Section, Township, Range: NA

Landform (hillside, terrace, etc.): Drainage Channel Local relief (concave, convex, none): Concave Slope %: 0-5%

Subregion (LRR or MLRA): LRR R Lat: ___ Long: ___ Datum: WGS 1984

Soil Map Unit Name: Fredon Silt Loam NWI classification: PEMA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are “Normal Circumstances” present? Yes X No ___

Are Vegetation X, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ___ No ___

Hydric Soil Present? Yes X No ___

Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? **Yes** X **No** ___

If yes, optional Wetland Site ID: ___

Remarks: (Explain alternative procedures here or in a separate report.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

X Surface Water (A1)
X High Water Table (A2)
X Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)

X Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ Marl Deposits (B15)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
X Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
X Drainage Patterns (B10)
___ Moss Trim Lines (B16)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ Shallow Aquitard (D3)
___ Microtopographic Relief (D4)
X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ___ Depth (inches): 0.5

Water Table Present? Yes X No ___ Depth (inches): 6

Saturation Present? Yes X No ___ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: J-Wet

Tree Stratum (Plot size: 10 m)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Sapling/Shrub Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		

Herb Stratum (Plot size: 1 m)			
1. *Lysimachia nummularia*			FACW
2. *Carex lurida*			OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	=Total Cover		

Woody Vine Stratum (Plot size: 5 m)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ______ (A)

Total Number of Dominant Species Across All Strata: ______ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ______ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:		(A)	(B)

Prevalence Index = B/A = ______

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Survey performed outside of growing season; therefore, presence of identifiable species recorded without cover.

SOIL

Sampling Point: J-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	5Y 5/1	75	10YR 3/6	25	RM	M	Loamy/Clayey	Clay and Silt

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2] Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
___ Stratified Layers (A5)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
X Stripped Matrix (S6)
___ Dark Surface (S7)

___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
___ High Chroma Sands (S11) (**LRR K, L)**
___ Loamy Mucky Mineral (F1) (**LRR K, L**)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)
___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
___ Coast Prairie Redox (A16) (**LRR K, L, R**)
___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
___ Polyvalue Below Surface (S8) (**LRR K, L**)
___ Thin Dark Surface (S9) (**LRR K, L**)
___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ______

Depth (inches): ______

Hydric Soil Present? **Yes** X **No** ___

Remarks:

D2 - SVAP Forms

Stream Visual Assessment Protocol 2 Summary Sheet

2. Field Assessment

A. Preliminary Field Data

Owner's name: GE/Arcadis

Evaluator's name: JK/JV

Reach #1

Stream name: Tributary T11A

Tributary to: Valatie Kill

Date of assessment 11/1/17 Weather conditions today Cloudy/Overcast - 40-50°F
(ambient temp.\ % cloud cover)

Weather conditions over past 2 to 5 days: Partly Cloudy - Three Days Since Rain 38 °F
(No. of days precip/average daytime temp.)

Reach location (UTM or Lat./Long.) *See Fig. 3 / ___

Channel type/classification scheme Type II/ B3 / Rosgen

Riparian Cover Type(s): Tree 40 % Shrub 20 % Herbaceous 10 % Bare 10 %

Bank Profile: Stratified ___ Homogeneous X Cohesive Soil X Noncohesive Soil ___

Gradient (√ one): Low (0-2%) ___ Moderate (>2<4%) X High (>4%) ___

Bankfull channel width ~10 ft Reach length *See Fig. 3 ft Flood plain width *See Fig. 3 ft

Average riparian zone width 8.3 ft; Method used (e.g., Range finder): Field Measure

Average height of woody shrubs N/A ft; Method used (e.g., Range finder): N/A

Flood plain wetlands, if present 0.005 acres/reach

Dominant substrate (%): boulder 20 (> 250 mm) cobble 29 (60-250mm) gravel 24 (2-60 mm) sand 17 (2-.06 mm) fine sediments 10 (< .06 mm)

Photo Point Locations and Descriptions:

Photo Pt. #	GPS Coordinates/Waypoints	Description
1	2548	Artificial green weir
2	2549	Bend looking upstream; steps and braided channel
3	2550	Flat/riffle area; upstream of bend
4	2551	Wooden structure; pool

SVAP Start Time/Water Temp: N/A SVAP End Time/Water Temp: N/A

Notes: N/A

Stream Visual Assessment Protocol 2 Summary Sheet

B. Element Scores

Element	Score	Element	Score
1. Channel Condition	6	14. Aquatic Invertebrate Community	8
2. Hydrologic Alteration	8	15. Riffle Embeddedness	6
3. Bank Condition	8	16. Salinity	N/A
4. Riparian Area Quantity	10	A. Sum of all elements scored	124
5. Riparian Area Quality	9	B. Number of elements scored	15
6. Canopy Cover	9		
7. Water Appearance	9	Overall score: A/B 8.3	
8. Nutrient Enrichment	10		
9. Manure or Human Waste	10	1 to 2.9 Severely Degraded	
10. Pools	9	3 to 4.9 Poor	
11. Barriers to Movement	6	5 to 6.9 Fair	
12. Fish Habitat Complexity	8	7 to 8.9 Good	
13. Aquatic Invertebrate Habitat	8	9 to 10 Excellent	

Suspected causes of SVAP scores less than 5 (does not meet quality criteria for stream species)
N/A

Recommendations for further assessment or actions:
N/A

Riparian wildlife habitat recommendations:
N/A

Stream Visual Assessment Protocol 2 Summary Sheet

2. Field Assessment

A. Preliminary Field Data

Owner's name: GE/Arcadis

Evaluator's name: JK/JV

Reach #2

Stream name: Tributary T11A

Tributary to: Valatie Kill

Date of assessment 11/1/17 Weather conditions today Cloudy/Overcast - 40-50°F

(ambient temp.\ % cloud cover)

Weather conditions over past 2 to 5 days: Partly Cloudy - Three Days Since Rain 38 °F

(No. of days precip/average daytime temp.)

Reach location (UTM or Lat./Long.) *See Fig. 3 / ____

Channel type/classification scheme Type II/ B3 / Rosgen

Riparian Cover Type(s): Tree 40 % Shrub 20 % Herbaceous 10 % Bare 10 %

Bank Profile: Stratified ___ Homogeneous X Cohesive Soil X Noncohesive Soil ____

Gradient (√ one): Low (0-2%) ___ Moderate (>2<4%) X High (>4%) ___

Bankfull channel width ~10 ft Reach length *See Fig. 3 ft Flood plain width *See Fig. 3 ft

Average riparian zone width 8.2 ft; Method used (e.g., Range finder): Field Measure

Average height of woody shrubs N/A ft; Method used (e.g., Range finder): N/A

Flood plain wetlands, if present 0.012 acres/reach

Dominant substrate (%): boulder 5 (> 250 mm) cobble 41 (60-250mm) gravel 24 (2-60 mm) sand 20 (2-.06 mm) fine sediments 10 (< .06 mm)

Photo Point Locations and Descriptions:

Photo Pt. #	GPS Coordinates/Waypoints	Description
1	2552	Sharp bends and erosion on left bank.
2	2553	Cut weir; sinuous around bend
3	2554	Braided channel; "side stream" near bend
4	2555	Downstream; small step-pools and riffles. End of reach.

SVAP Start Time/Water Temp: N/A SVAP End Time/Water Temp: N/A

Notes: N/A

Stream Visual Assessment Protocol 2 Summary Sheet

B. Element Scores

Element	Score	Element	Score
1. Channel Condition	7	14. Aquatic Invertebrate Community	4
2. Hydrologic Alteration	7	15. Riffle Embeddedness	4
3. Bank Condition	8	16. Salinity	N/A
4. Riparian Area Quantity	8	A. Sum of all elements scored	107
5. Riparian Area Quality	7	B. Number of elements scored	15
6. Canopy Cover	9		
7. Water Appearance	9	Overall score: A/B	7.1
8. Nutrient Enrichment	10		
9. Manure or Human Waste	10	1 to 2.9	Severely Degraded
10. Pools	6	3 to 4.9	Poor
11. Barriers to Movement	5	5 to 6.9	Fair
12. Fish Habitat Complexity	7	7 to 8.9	Good
13. Aquatic Invertebrate Habitat	6	9 to 10	Excellent

Suspected causes of SVAP scores less than 5 (does not meet quality criteria for stream species)

N/A

Recommendations for further assessment or actions:

N/A

Riparian wildlife habitat recommendations:

N/A

Stream Visual Assessment Protocol 2 Summary Sheet

2. Field Assessment

A. Preliminary Field Data

Owner's name: GE/Arcadis

Evaluator's name: JK/JV

Reach #3

Stream name: Tributary T11A

Tributary to: Valatie Kill

Date of assessment 11/1/17 Weather conditions today Cloudy/Overcast - 40-50°F
(ambient temp.\ % cloud cover)

Weather conditions over past 2 to 5 days: Partly Cloudy - Three Days Since Rain 38 °F
(No. of days precip/average daytime temp.)

Reach location (UTM or Lat./Long.) *See Fig. 3 / ____

Channel type/classification scheme Type II/ B3 / Rosgen

Riparian Cover Type(s): Tree 40 % Shrub 20 % Herbaceous 10 % Bare 10 %

Bank Profile: Stratified ___ Homogeneous X Cohesive Soil X Noncohesive Soil ____

Gradient (√ one): Low (0-2%) ___ Moderate (>2<4%) X High (>4%) ___

Bankfull channel width ~10 ft Reach length *See Fig. 3 ft Flood plain width *See Fig. 3 ft

Average riparian zone width 6.1 ft; Method used (e.g., Range finder): Field Measure

Average height of woody shrubs N/A ft; Method used (e.g., Range finder): N/A

Flood plain wetlands, if present 0 acres/reach

Dominant substrate (%): boulder 8 (> 250 mm) cobble 41 (60-250mm) gravel 18 (2-60 mm) sand 20 (2-.06 mm) fine sediments 13 (< .06 mm)

Photo Point Locations and Descriptions:

Photo Pt. #	GPS Coordinates/Waypoints	Description
1	2556	Upstream. Low sinuosity, straight.
2	2557	Upstream. Coarse woody debris dam blocking flow at bend
3	2558	Upstream. End of reach, log weir.
4	2559	Downstream. Log weir, bend.

SVAP Start Time/Water Temp: N/A SVAP End Time/Water Temp: N/A

Notes: N/A

Stream Visual Assessment Protocol 2 Summary Sheet

B. Element Scores

Element	Score	Element	Score
1. Channel Condition	6	14. Aquatic Invertebrate Community	6
2. Hydrologic Alteration	6	15. Riffle Embeddedness	4
3. Bank Condition	6	16. Salinity	N/A
4. Riparian Area Quantity	8	A. Sum of all elements scored	97
5. Riparian Area Quality	8	B. Number of elements scored	15
6. Canopy Cover	9		
7. Water Appearance	10	Overall score: A/B	6.5
8. Nutrient Enrichment	8		
9. Manure or Human Waste	10	1 to 2.9	Severely Degraded
10. Pools	4	3 to 4.9	Poor
11. Barriers to Movement	3	5 to 6.9	Fair
12. Fish Habitat Complexity	4	7 to 8.9	Good
13. Aquatic Invertebrate Habitat	5	9 to 10	Excellent

Suspected causes of SVAP scores less than 5 (does not meet quality criteria for stream species)
N/A

Recommendations for further assessment or actions:
N/A

Riparian wildlife habitat recommendations:
N/A

Stream Visual Assessment Protocol 2 Summary Sheet

2. Field Assessment

A. Preliminary Field Data

Owner's name: GE/Arcadis
Reach #4
Stream name: Tributary T11A

Evaluator's name: JK/JV
Tributary to: Valatie Kill

Date of assessment 11/1/17 Weather conditions today Cloudy/Overcast - 40-50°F
(ambient temp.\ % cloud cover)

Weather conditions over past 2 to 5 days: Partly Cloudy - Three Days Since Rain 38 °F
(No. of days precip/average daytime temp.)

Reach location (UTM or Lat./Long.) *See Fig. 3 / ________

Channel type/classification scheme Type II/ B3 / Rosgen

Riparian Cover Type(s): Tree 40 % Shrub 20 % Herbaceous 10 % Bare 10 %

Bank Profile: Stratified___ Homogeneous X Cohesive Soil X Noncohesive Soil ____

Gradient (√ one): Low (0-2%) ___ Moderate (>2<4%) X High (>4%) ___

Bankfull channel width ~10 ft Reach length *See Fig. 3 ft Flood plain width *See Fig. 3 ft

Average riparian zone width 7.5 ft; Method used (e.g., Range finder): Field Measure

Average height of woody shrubs N/A ft; Method used (e.g., Range finder): N/A

Flood plain wetlands, if present 0 acres/reach

Dominant substrate (%): boulder 10 (> 250 mm) cobble 36 (60-250mm) gravel 26 (2-60 mm) sand 19 (2-.06 mm) fine sediments 9 (< .06 mm)

Photo Point Locations and Descriptions:

Photo Pt. #	GPS Coordinates/Waypoints	Description
1	2560	Upstream. Beginning of reach, near bend.
2	2561	Upstream. Around first bend.
3	2562	Upstream. Around second bend.
4	2563	Downstream. Around second bend.

SVAP Start Time/Water Temp: N/A /________SVAP End Time/Water Temp: N/A /________

Notes: N/A

Stream Visual Assessment Protocol 2 Summary Sheet

B. Element Scores

Element	Score	Element	Score
1. Channel Condition	6	14. Aquatic Invertebrate Community	4
2. Hydrologic Alteration	8	15. Riffle Embeddedness	7
3. Bank Condition	6	16. Salinity	N/A
4. Riparian Area Quantity	6	A. Sum of all elements scored	104
5. Riparian Area Quality	8	B. Number of elements scored	15
6. Canopy Cover	7		
7. Water Appearance	8	Overall score: A/B	6.9
8. Nutrient Enrichment	9		
9. Manure or Human Waste	10	1 to 2.9	Severely Degraded
10. Pools	6	3 to 4.9	Poor
11. Barriers to Movement	5	5 to 6.9	Fair
12. Fish Habitat Complexity	6	7 to 8.9	Good
13. Aquatic Invertebrate Habitat	8	9 to 10	Excellent

Suspected causes of SVAP scores less than 5 (does not meet quality criteria for stream species)
N/A

Recommendations for further assessment or actions:
N/A

Riparian wildlife habitat recommendations:
N/A

Stream Visual Assessment Protocol 2 Summary Sheet

2. Field Assessment

Owner's name: GE/Arcadis

Reach #5 Transition Zone

Evaluator's name: JK/JV

A. Preliminary Field Data

Stream name: Tributary T11A

Tributary to: Valatie Kill

Date of assessment 11/2/17 Weather conditions today Cloudy/Overcast - 40-50°F

(ambient temp.\ % cloud cover)

Weather conditions over past 2 to 5 days: Partly Cloudy - Three Days Since Rain 38 °F

(No. of days precip/average daytime temp.)

Reach location (UTM or Lat./Long.) *See Fig. 3 / ____

Channel type/classification scheme Type II/ B3 / Rosgen

Riparian Cover Type(s): Tree 40 % Shrub 20 % Herbaceous 10 % Bare 10 %

Bank Profile: Stratified___ Homogeneous X Cohesive Soil X Noncohesive Soil ____

Gradient (√ one): Low (0-2%) X Moderate (>2<4%) X High (>4%) ___

Bankfull channel width ~10 ft Reach length *See Fig. 3 ft Flood plain width *See Fig. 3 ft

Average riparian zone width 5.1 ft; Method used (e.g., Range finder): Field Measure

Average height of woody shrubs N/A ft; Method used (e.g., Range finder): N/A

Flood plain wetlands, if present 0 acres/reach

Dominant substrate (%): boulder 20 (> 250 mm) cobble 29 (60-250mm) gravel 24 (2-60 mm) sand 17 (2-.06 mm) fine sediments 10 (< .06 mm)

Photo Point Locations and Descriptions:

Photo Pt. #	GPS Coordinates/Waypoints	Description
1	2624	Upstream. Start of reach.
2	2625	Upstream. Middle.
3	2626	Downstream. Middle.
4	25627	Downstream. End of reach.

SVAP Start Time/Water Temp: N/A SVAP End Time/Water Temp: N/A

Notes: N/A

Stream Visual Assessment Protocol 2 Summary Sheet

B. Element Scores

Element	Score	Element	Score
1. Channel Condition	7	14. Aquatic Invertebrate Community	2
2. Hydrologic Alteration	8	15. Riffle Embeddedness	6
3. Bank Condition	7	16. Salinity	N/A
4. Riparian Area Quantity	7	A. Sum of all elements scored	87
5. Riparian Area Quality	6	B. Number of elements scored	15
6. Canopy Cover	5		
7. Water Appearance	8	Overall score: A/B 5.8	
8. Nutrient Enrichment	9		
9. Manure or Human Waste	10	1 to 2.9 Severely Degraded	
10. Pools	4	3 to 4.9 Poor	
11. Barriers to Movement	4	5 to 6.9 Fair	
12. Fish Habitat Complexity	2	7 to 8.9 Good	
13. Aquatic Invertebrate Habitat	2	9 to 10 Excellent	

Suspected causes of SVAP scores less than 5 (does not meet quality criteria for stream species)
N/A

Recommendations for further assessment or actions:
N/A

Riparian wildlife habitat recommendations:
N/A

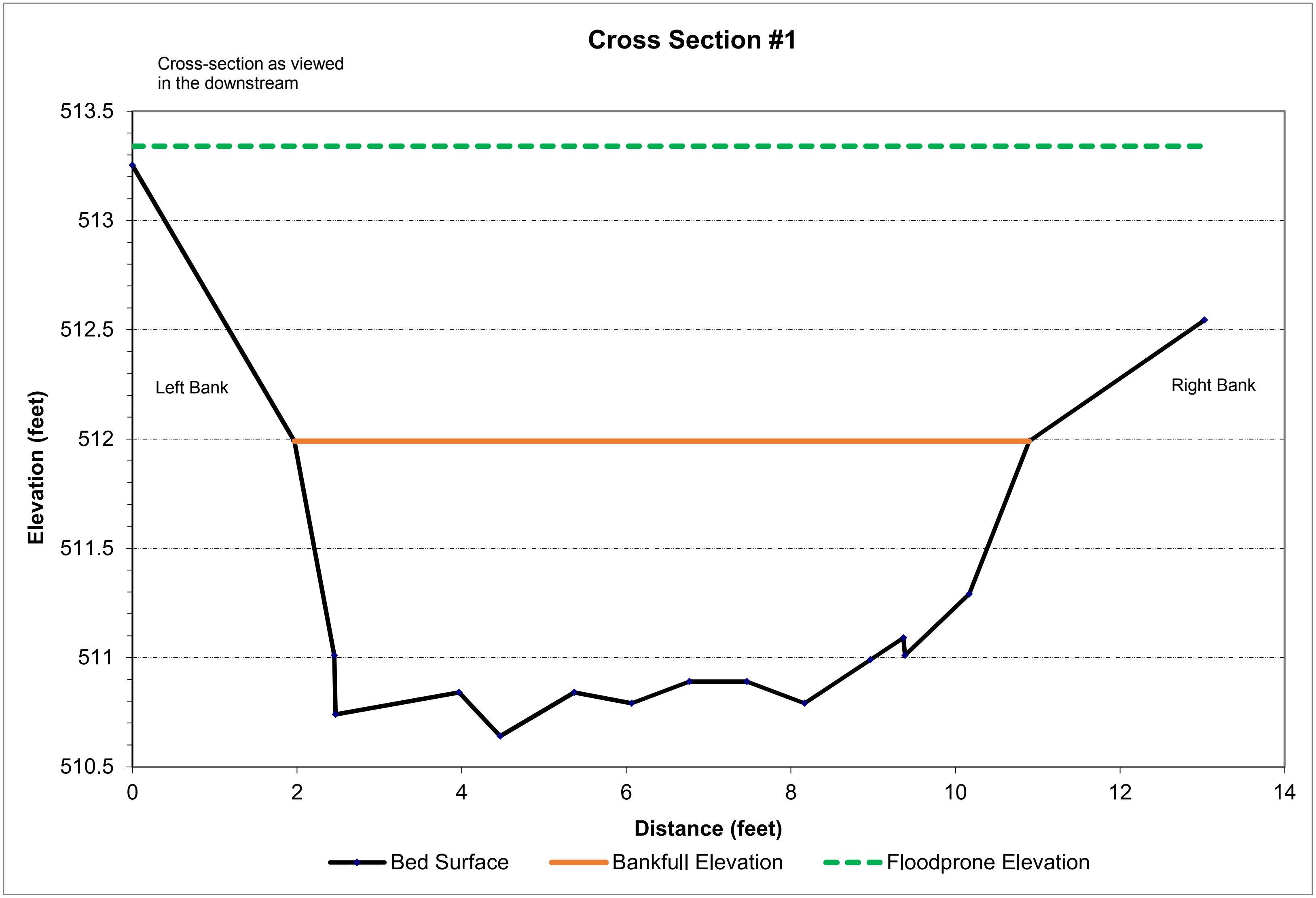
APPENDIX E

Stream Cross Sections

Appendix E1 – Habitat Assessment Stream Cross Sections

Appendix E2 – 2010 and 2017 Cross Section Comparison

E1 – Habitat Assessment Stream Cross Sections



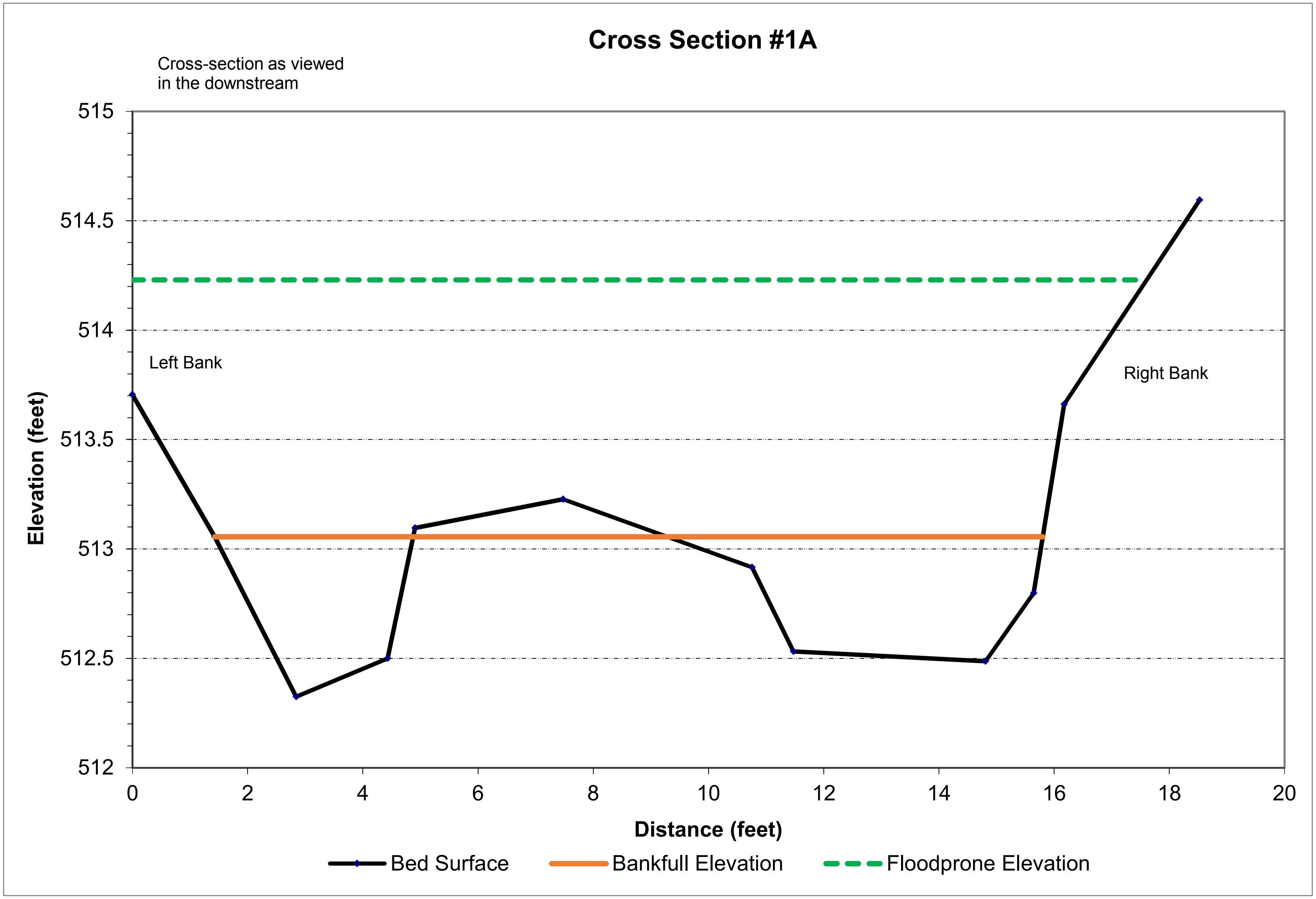
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

**TRIBUTARY T11A
CROSS SECTIONS**

ARCADIS

FIGURE
E-1

Cross Section Figures_04112018.xlsm - 4/11/2018

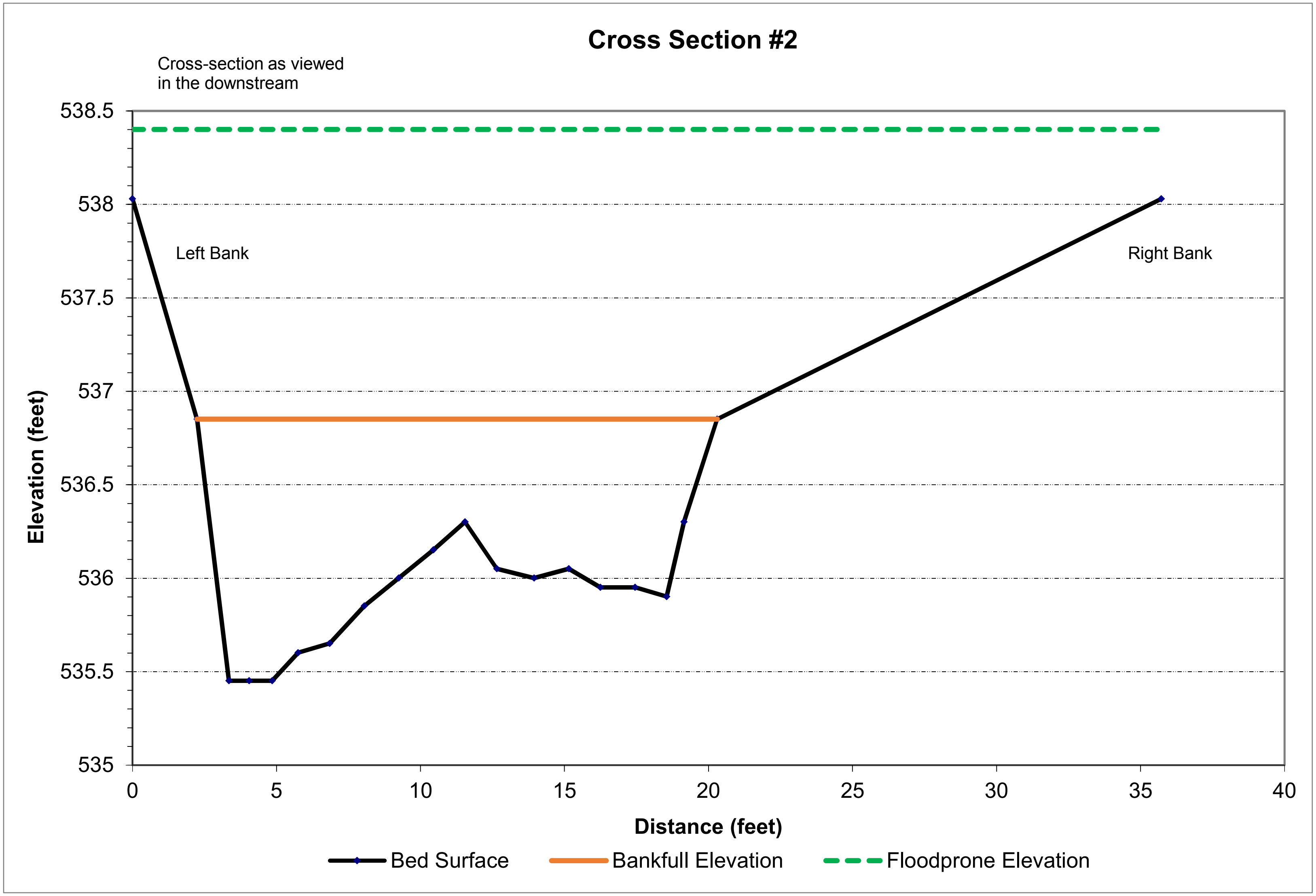


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

FIGURE
E-2

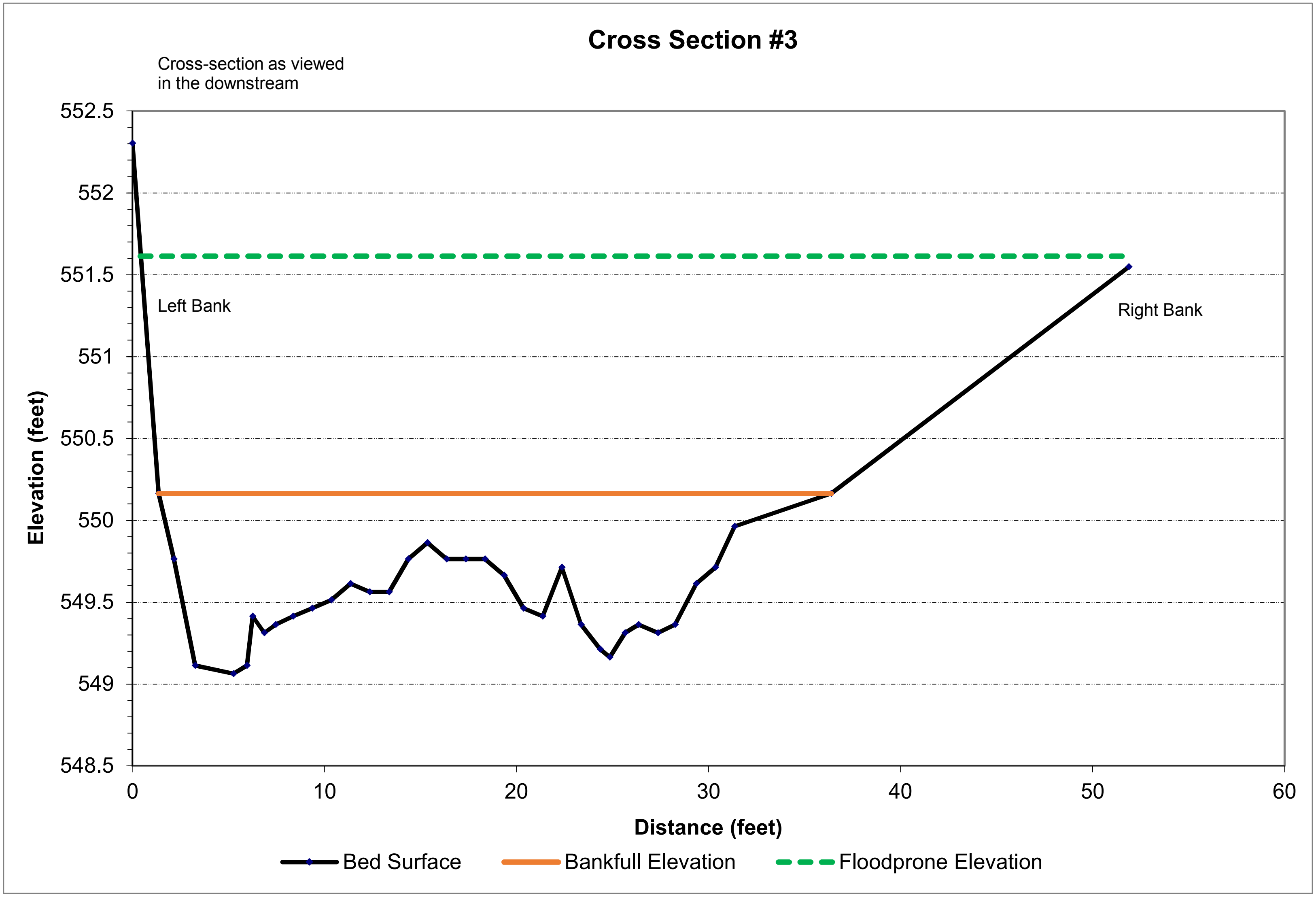


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

FIGURE
E-3

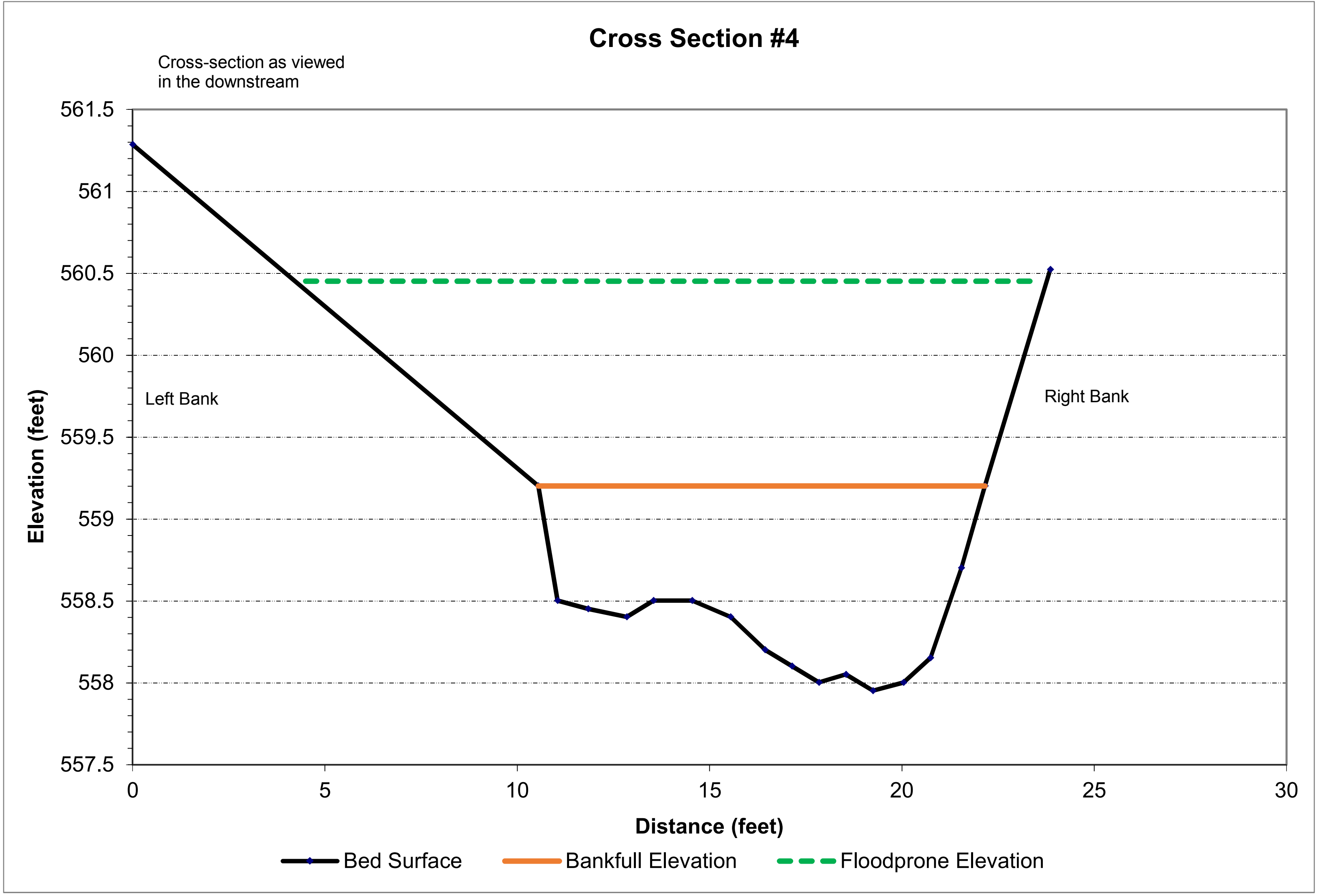


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
CROSS SECTIONS

ARCADIS

FIGURE
E-4

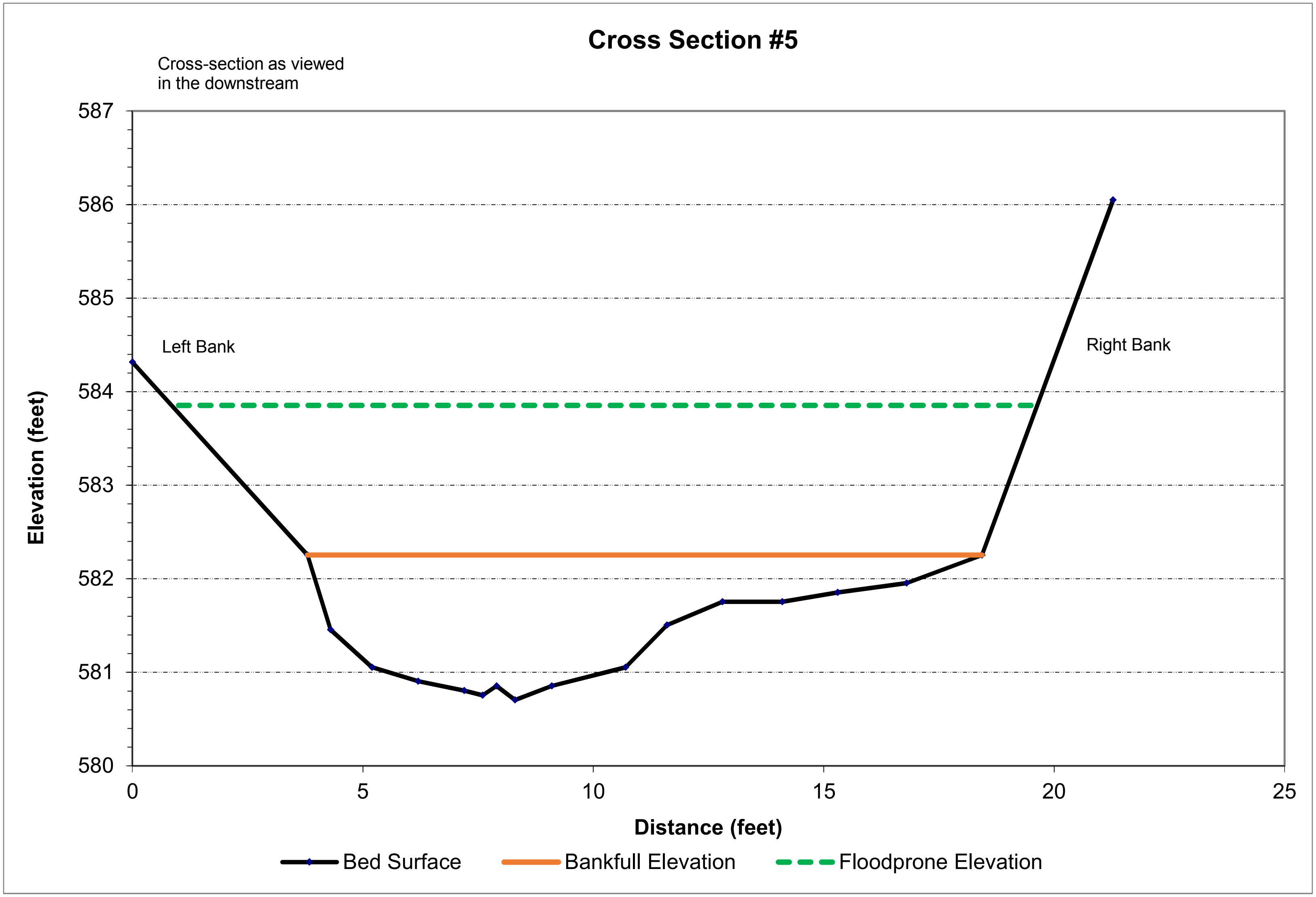


DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A
CROSS SECTIONS

ARCADIS

FIGURE
E-5



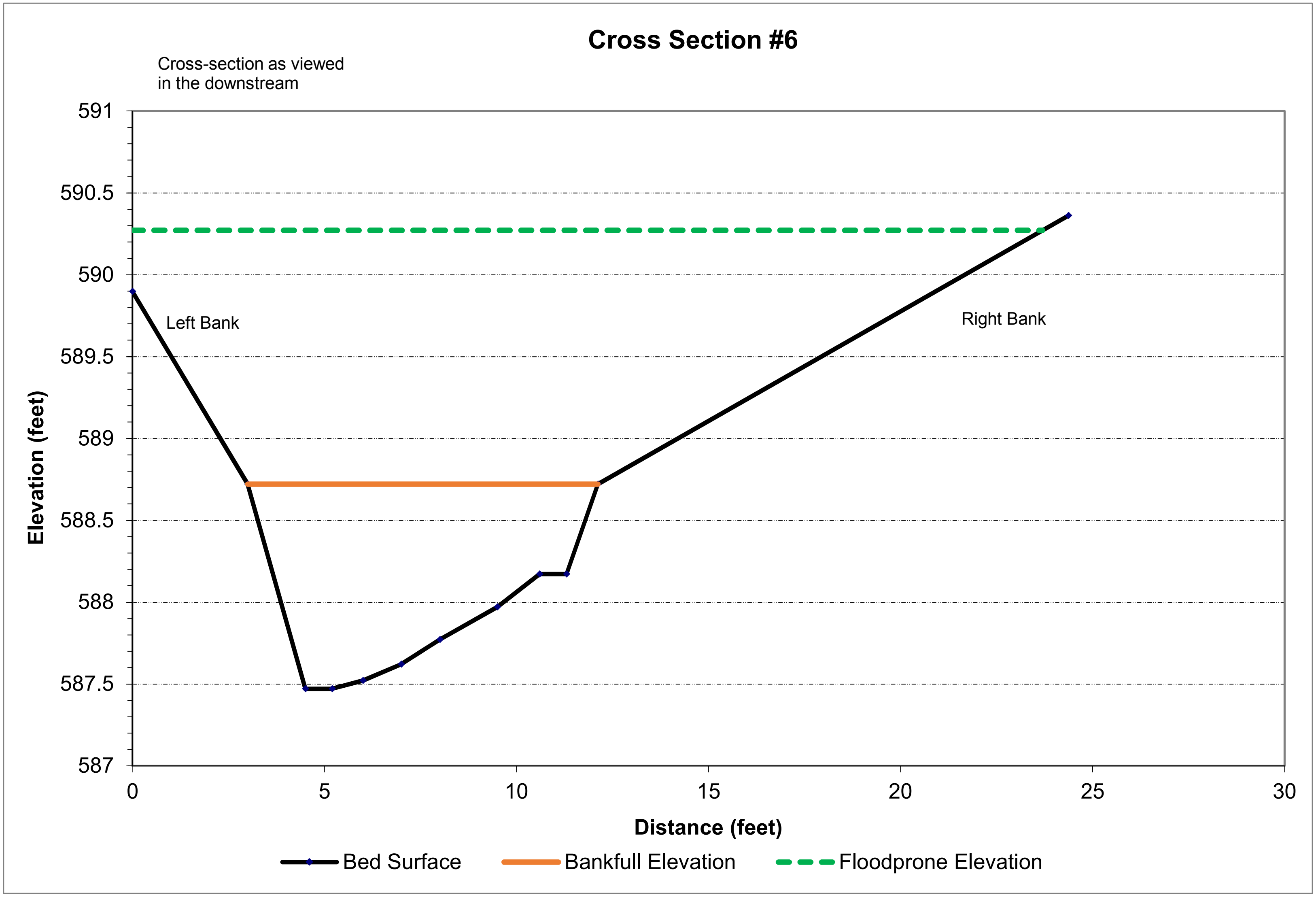
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

FIGURE
E-6

Cross Section Figures_04112018.xlsm - 4/11/2018



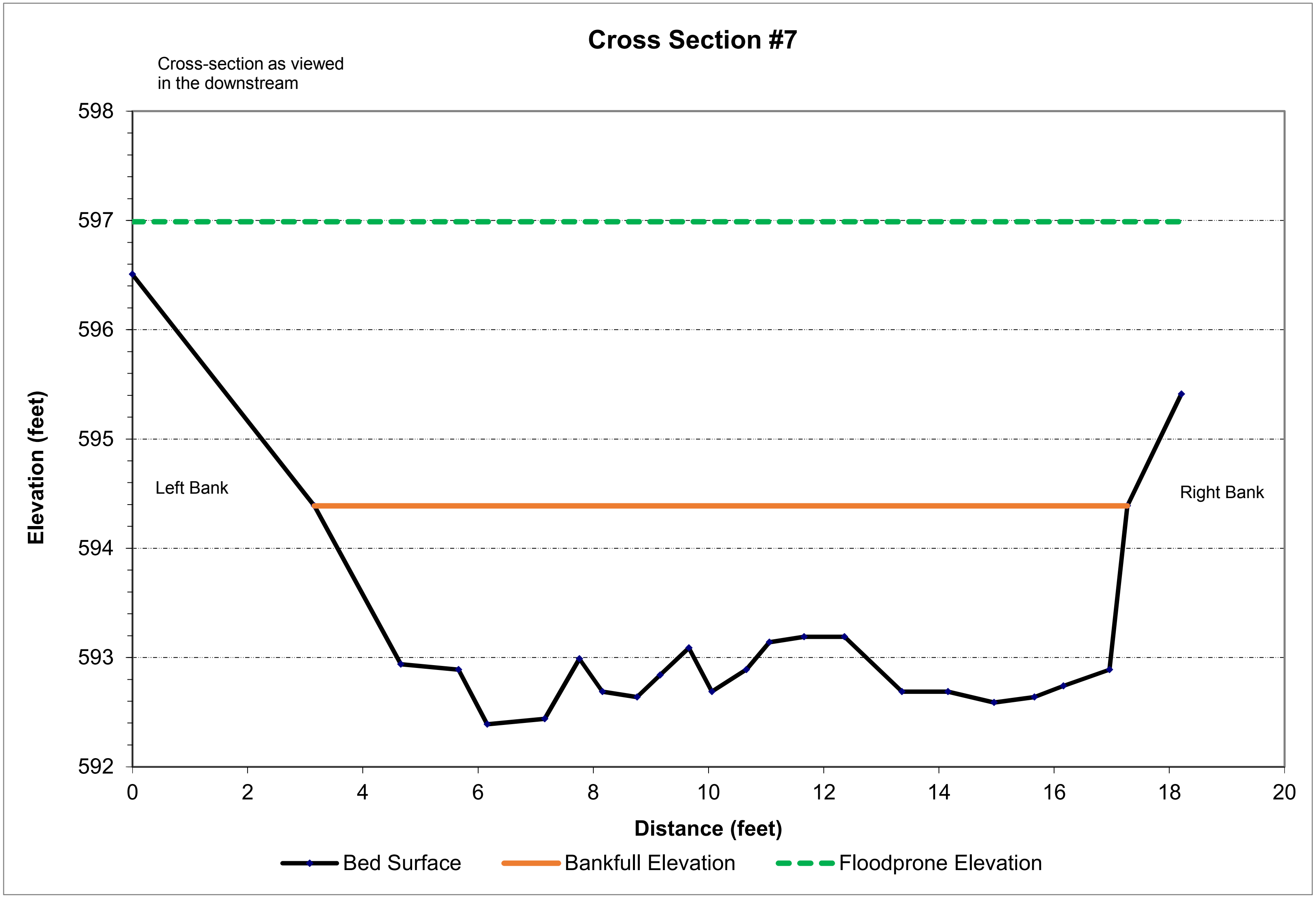
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

FIGURE
E-7

Cross Section Figures_04112018.xlsm - 4/11/2018



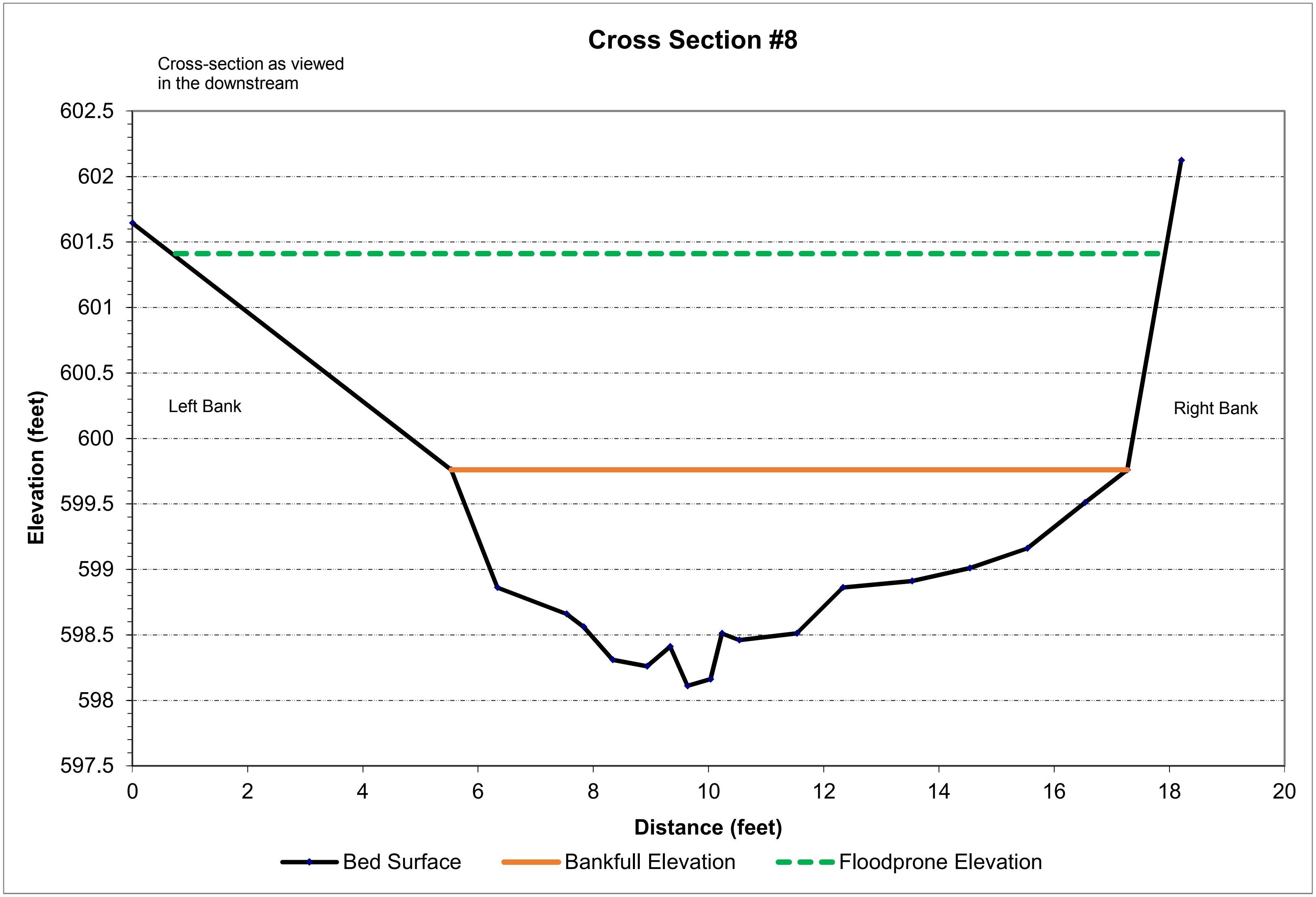
DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

FIGURE
E-8

Cross Section Figures_04112018.xlsm - 4/11/2018



DEWEY LOEFFEL LANDFILL SUPERFUND SITE
NASSAU, NEW YORK

TRIBUTARY T11A CROSS SECTIONS

ARCADIS

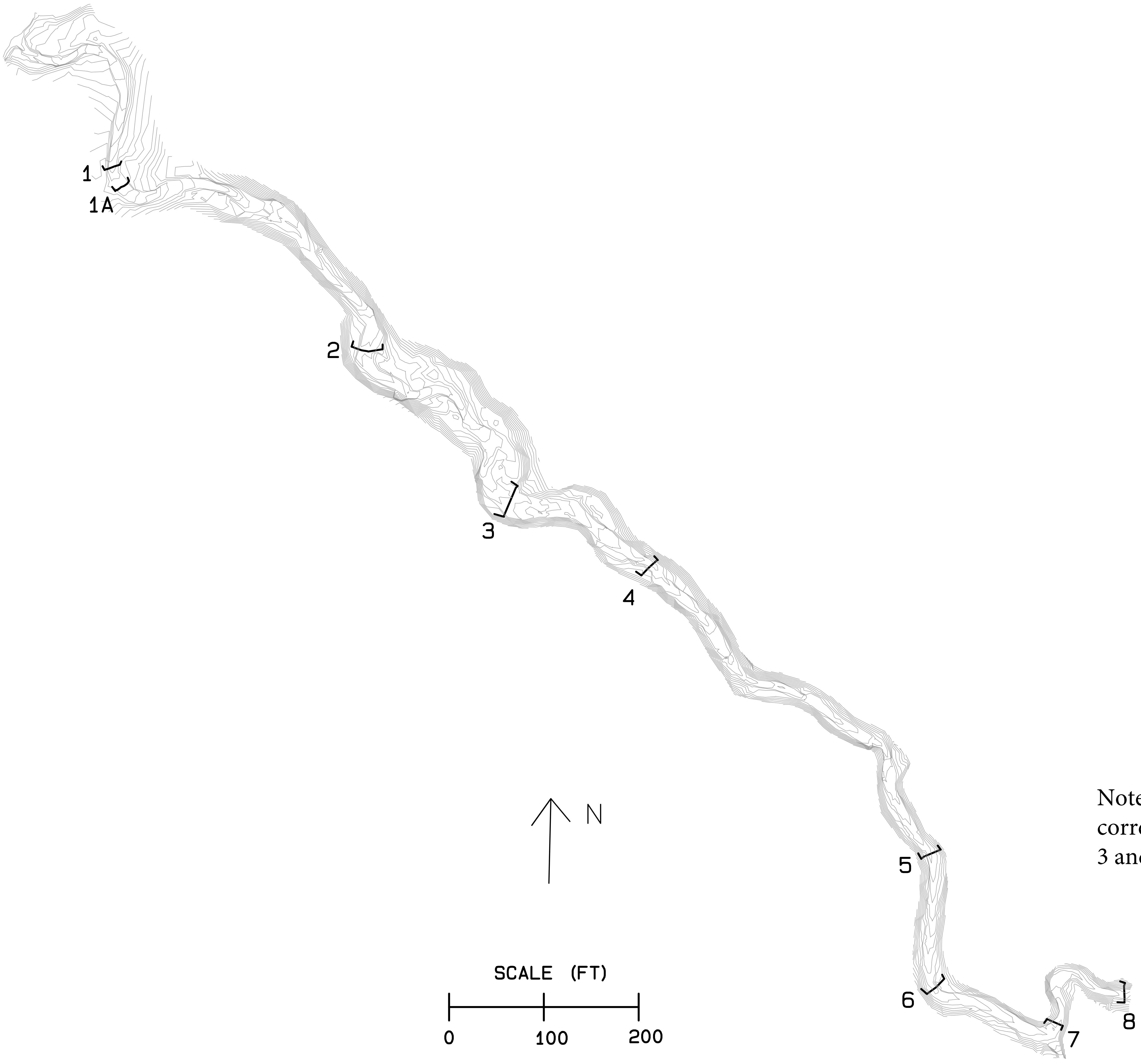
FIGURE

E-9

Cross Section Figures_04112018.xlsm - 4/11/2018

E2 – 2010 and 2017 Cross Section Comparison

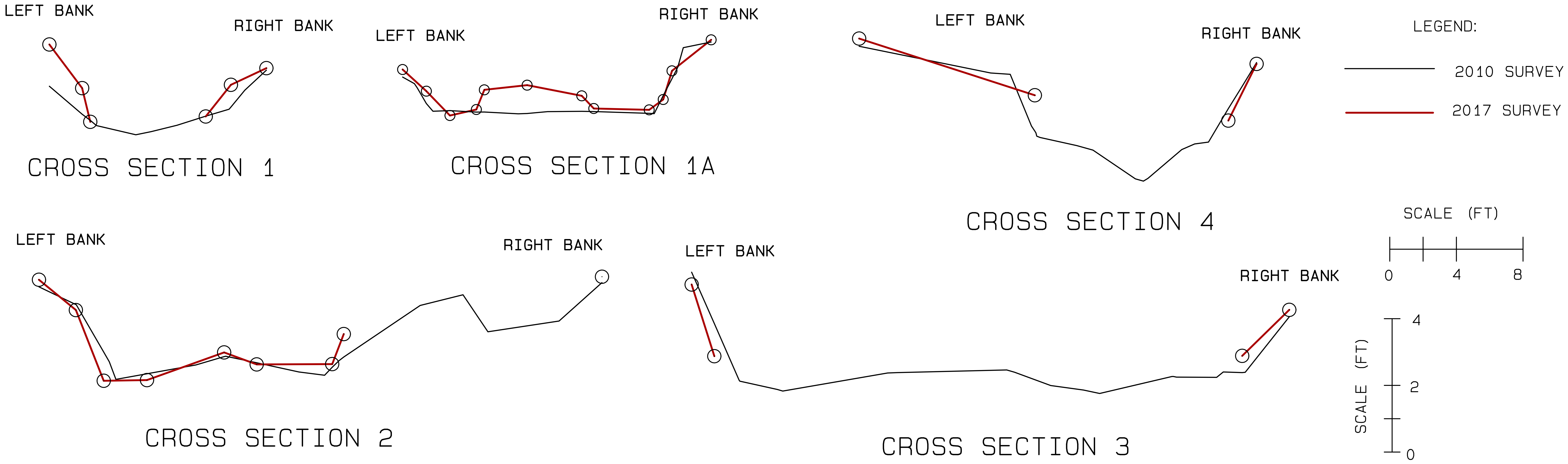
PLAN VIEW



Note: Tributary T11A cross section locations correspond to cross sections illustrated on Figures 3 and 4 of this Data Summary Report.

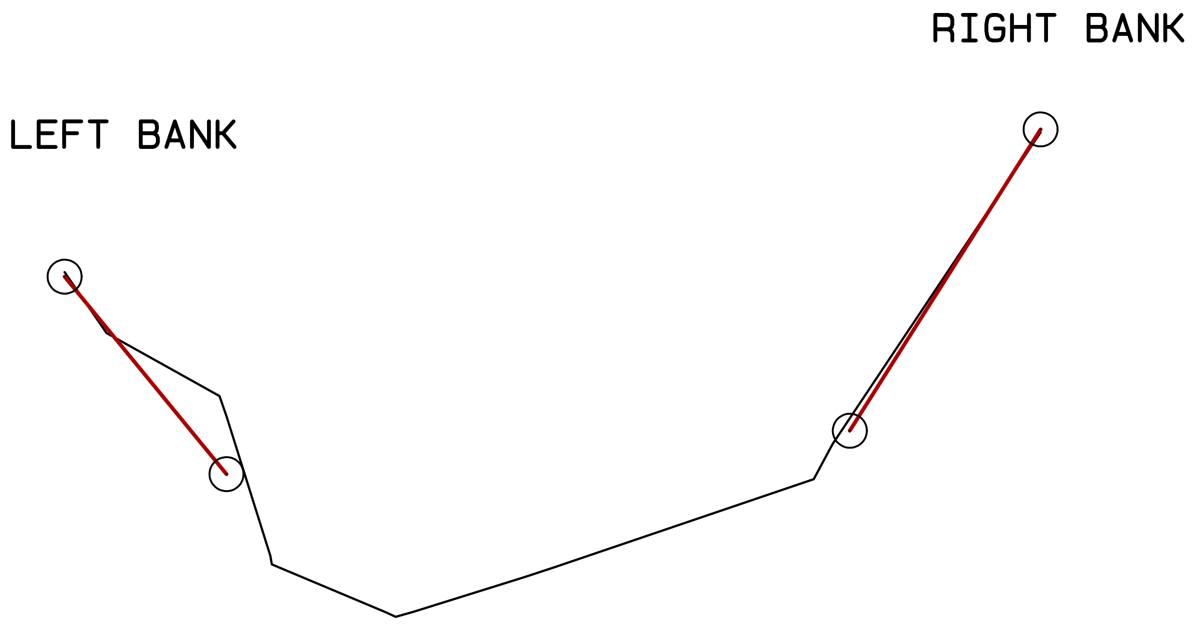
CROSS SECTIONS 1 THROUGH 4

Notes for Cross Sections:
1. **LEFT BANK** and **RIGHT BANK** are oriented looking in the direction of flow.
2. **2010 SURVEY** cross sections are based on smoothed contours illustrated in the Plan View.
3. **2017 SURVEY** is based on straight-line connection of survey points collected in 2017.

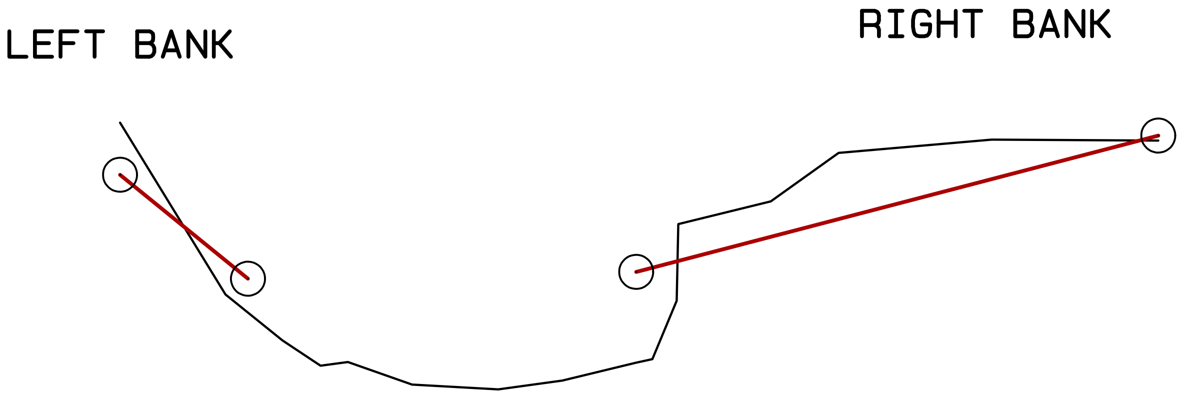


2X VERTICAL EXAGGERATION

CROSS SECTIONS 5 THROUGH 8



CROSS SECTION 5

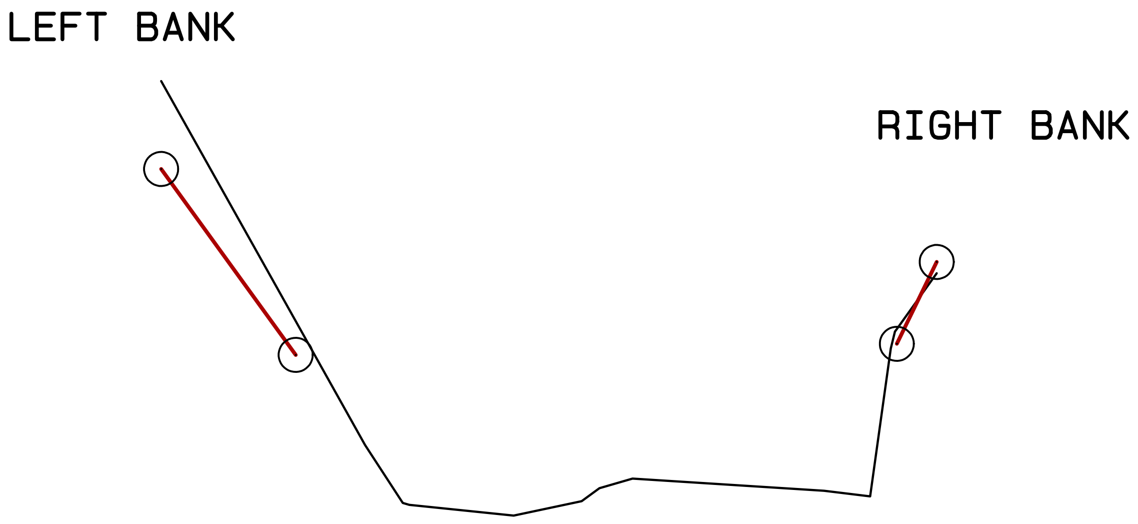


CROSS SECTION 6

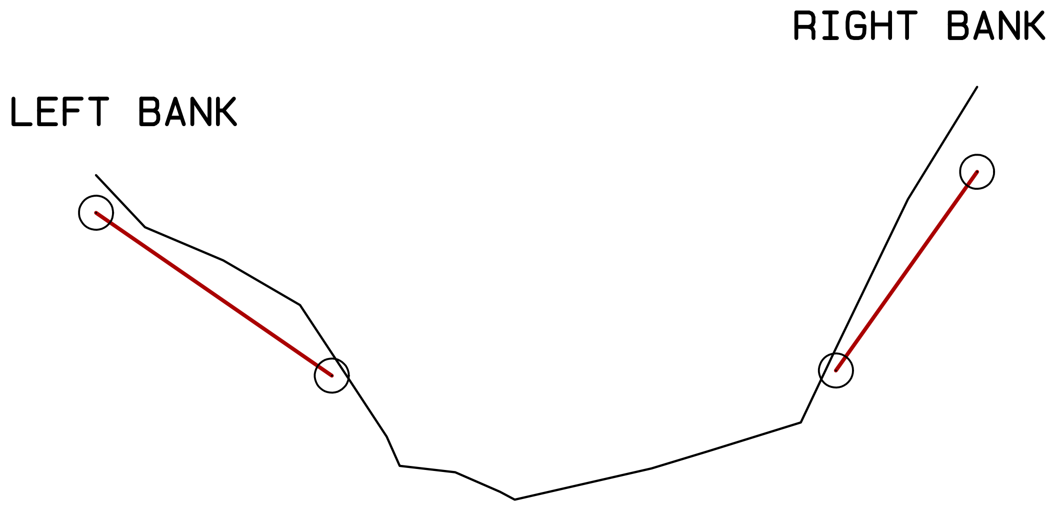
LEGEND:

— 2010 SURVEY

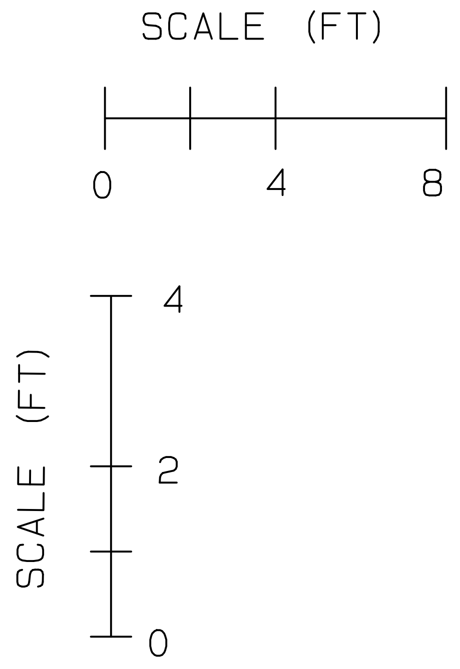
— 2017 SURVEY



CROSS SECTION 7



CROSS SECTION 8



2X VERTICAL EXAGGERATION

APPENDIX F

Tree Survey Results

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
A1	Ash	10
A2	Ash	13
A3	Ash	8
A4	American Elm	9
A5	American Elm	4
A6	American Elm	5
A7	American Elm	4
A8	Sugar Maple	4
A9	Basswood	25
A10	American Beech	10
A11	American Beech	4
A12	American Beech	4
A13	White Pine	24
A14	American Beech	12
A15	American Beech	4
A16	Red Maple	12
A17	White Pine	8
A18	American Elm	10
A19	Aspen	15
A20	Aspen	10
A21	Shagbark Hickory	6
A22-1	Black Birch	4
A22-2	Black Birch	4
A22-3	Black Birch	4
A23	White Pine	5
A24	Chestnut Oak	14
A25	Yellow Birch	9
A26	White Pine	11
A27-1	White Pine	6
A27-2	White Pine	6
A27-3	White Pine	6
A28	White Pine	8
A29	White Pine	4
A30	Black Birch	13
A31	American Beech	6
A32-1	Black Birch	7
A32-2	Black Birch	5
A33	White Pine	4
A34	White Pine	5
A35	White Pine	4
A36	Hemlock	7
A37	White Pine	7
A38-1	Black Birch	8
A38-2	Black Birch	8
A38-3	Black Birch	7
A38-4	Black Birch	8
A39	White Pine	8
A40-1	Black Birch	8
A40-2	Black Birch	11
A41	Black Birch	9

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
A42	Hemlock	9
A43	Hemlock	9
A44	Hemlock	5
A45-1	Black Birch	11
A45-2	Black Birch	5
A46	White Pine	18
A47	White Oak	16
A48	White Pine	5
A49	Black Birch	7
A50	Hemlock	6
A51-1	Black Birch	7
A51-2	Black Birch	7
A52	Sugar Maple	4
A53-1	Black Birch	8
A53-2	Black Birch	7
A54	Hemlock	7
A55	Black Birch	7
A56	Hemlock	8
A57	Hemlock	4
A58	Hemlock	7
A59	Black Birch	8
A60	Hemlock	4
A61	Hemlock	7
A62	Black Birch	4
A63	Hemlock	4
A64	Hemlock	4
A65	Black Birch	7
A66	Yellow Birch	9
A67	Yellow Birch	8
A68	Sugar Maple	3
A69	Hemlock	10
A70	Hemlock	8
A71	Hemlock	14
A72-1	Black Birch	8
A72-2	Black Birch	11
A73	Black Walnut	14
A74	White Pine	10
A75	Black Birch	11
A76	Red Maple	14
A77	White Pine	12
A78	White Pine	17
A79	Black Birch	17
A80	Black Birch	10
A81	Black Birch	10
A82	Hemlock	9
A83	Hemlock	9
A84	Red Maple	22
A85	Black Birch	4
A86	Black Birch	6
A87	Black Birch	6

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
A88	Hemlock	6
A89	Black Birch	6
A90	American Beech	6
A91	American Beech	3
A92	Black Birch	13
A93	Sugar Maple	10
A94	American Beech	18
A95	Hemlock	19
A96	Hemlock	7
A97	Hemlock	3
A98	Yellow Birch	4
A99	Yellow Birch	3
A100	Black Birch	5
A101	Yellow Birch	4
A102-1	Hemlock	5
A102-2	Hemlock	6
A103	Hemlock	25
A104-1	Yellow Birch	9
A104-2	Yellow Birch	7
A105	Yellow Birch	5
A106	Black Birch	5
A107	Yellow Birch	3
A108	Hemlock	25
A109	Hemlock	23
A110	Oak Sp.	18
A111	American Beech	9
A112	American Beech	7
A113	American Beech	11
A114	Red Maple	17
A115	Hemlock	8
A116	Hemlock	11
A117	Red Maple	13
A118	Red Maple	16
A119	Yellow Birch	4
A120	Red Maple	16
A121	Red Maple	17
A122	American Beech	4
A123	Hemlock	6
A124	American Beech	4
A125	Black Birch	4
A126	Red Maple	27
A127	Hemlock	15
A128	Red Maple	9
A129	American Beech	4
A130	American Beech	4
A131	American Beech	6
A132	American Beech	5
A133-1	Yellow Birch	4
A133-2	Yellow Birch	5
A134	Yellow Birch	7

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
A135	Yellow Birch	8
A136	Red Maple	25
A137-1	Yellow Birch	5
A137-2	Yellow Birch	12
A138	Black Birch	6
A139	Black Birch	6
A140	Hemlock	11
A141	Black Birch	4
A142	Yellow Birch	3
A143	Black Birch	3
A144	Hemlock	3
A145	Hemlock	4
A146-1	Red Maple	5
A146-2	Red Maple	17
A147	Hemlock	5
A148	Hemlock	8
A149	Sugar Maple	16
A150	Hemlock	17
A151	American Beech	5
A152	Hemlock	10
A153	Hemlock	9
A154	Sugar Maple	6
A155	Sugar Maple	4
A156	American Elm	4
A157	Sugar Maple	3
A158	Ash	5
A159	Hemlock	8
A160	Sugar Maple	12
A161	American Beech	9
A162	American Beech	4
A163	American Beech	3
A164	Sugar Maple	18
A165	Hemlock	13
A166	American Beech	19
A167	American Beech	5
A168	American Beech	8
A169	Black Cherry	12
A170	Black Birch	12
A171	Black Birch	13
A172	Hemlock	4
A173	Hemlock	8
A174	Hemlock	8
A175	Black Birch	12
A176	Yellow Birch	9
A177	American Beech	5
A178	Black Birch	16
A179	American Beech	4
A180	Ash	4
A181	American Beech	6
A182	American Beech	17

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
A183	Basswood	5
A184	Basswood	4
A185-1	Yellow Birch	5
A185-2	Yellow Birch	4
A186	Yellow Birch	4
A187-1	Red Maple	4
A187-2	Red Maple	6
A188	Yellow Birch	3
A189-1	American Beech	13
A189-2	American Beech	7
A190	Yellow Birch	4
A191	Yellow Birch	7
A192	Yellow Birch	4
A193	Yellow Birch	6
A194	Yellow Birch	4
A195	Yellow Birch	8
A196	Yellow Birch	4
A197	Yellow Birch	7
A198	Sugar Maple	6
A199	American Elm	7
A200	Yellow Birch	5
A201	Hemlock	4
A202	Yellow Birch	4
A203	Blue Beech	6
A204	Sugar Maple	6
A205	American Elm	7
A206	Yellow Birch	15
A207	Yellow Birch	5
A208	Sugar Maple	13
B1	Sugar Maple	13
B2	Sugar Maple	19
B3	Sugar Maple	9
B4	Yellow Birch	4
B5	Sugar Maple	7
B6	Sugar Maple	4
B7-1	Sugar Maple	11
B7-2	Sugar Maple	9
B7-3	Sugar Maple	10
B8	Black Walnut	25
B9-1	Sugar Maple	6
B9-2	Sugar Maple	17
B10	Sugar Maple	15
B11	Sugar Maple	13
B12	Sugar Maple	6
B13	Yellow Birch	14
B14	Yellow Birch	10
B15	Yellow Birch	8
B16	Musclewood	4
B17	Yellow Birch	4
B18	Ash	4

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
B19	Sugar Maple	8
B20	Black Birch	24
B21	Black Birch	11
B22	Black Birch	20
B23	Sugar Maple	4
B24	Hemlock	11
B25	Black Birch	32
B26	Yellow Birch	18
B27	Yellow Birch	8
B28	Sugar Maple	4
B29	Hemlock	8
B30	Hemlock	10
B31	Yellow Birch	12
B32	Yellow Birch	11
B33	Black Birch	12
B34	American Beech	7
B35	White Oak	14
B36	Yellow Birch	4
B37	Black Birch	10
B38	Yellow Birch	5
B39-1	Sugar Maple	18
B39-2	Sugar Maple	15
B40	Hemlock	5
B41	Hemlock	7
B42	Hemlock	11
B43	Hemlock	8
B44	Black Birch	4
B45	Black Birch	14
B46	Yellow Birch	3
B47	American Beech	4
B48-1	American Beech	8
B48-2	American Beech	3
B49	Sugar Maple	20
B50	American Beech	9
B51	American Beech	5
B52	Hemlock	6
B53	American Beech	7
B54	Black Birch	18
B55	Hemlock	8
B56	Hemlock	4
B57	Hemlock	6
B58	Hemlock	8
B59	Hemlock	7
B60	Yellow Birch	4
B61	Hemlock	12
B62	Hemlock	6
B63	Yellow Birch	4
B64	Hemlock	4
B65	Hemlock	4
B66	Hemlock	9

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
B67	Hemlock	8
B68	Hemlock	8
B69	Hemlock	8
B70	Hemlock	8
B71	Hemlock	9
B72	Hemlock	7
B73	Black Birch	12
B74	Hemlock	5
B75	Hemlock	11
B76	Hemlock	5
B77	Sugar Maple	6
B78	Hemlock	4
B79	Black Birch	14
B80	Sugar Maple	13
B81	Hemlock	11
B82-1	Hemlock	4
B82-2	Hemlock	10
B83	Sugar Maple	9
B84	Hemlock	9
B85	Hemlock	4
B86	Hemlock	5
B87	Hemlock	4
B88	Hemlock	4
B89	Hemlock	10
B90	Hemlock	4
B91	Hemlock	4
B92	Yellow Birch	3
B93	Hemlock	6
B94	Hemlock	17
B95	Hemlock	22
B96	Sugar Maple	19
B97	Sugar Maple	17
B98	Yellow Birch	4
B99	Ash	6
B100	Ash	3
B101	Hemlock	14
B102	Hemlock	4
B103	American Beech	4
B104	Sugar Maple	18
B105	Hemlock	4
B106	Black Birch	17
B107	Hemlock	22
B108	Hemlock	4
B109	Sugar Maple	21
B110	Hemlock	4
B111	Black Birch	4
B112	Black Birch	4
B113	Yellow Birch	5
B114	Yellow Birch	4
B115	Hemlock	4

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
B116	Sugar Maple	17
B117	Hemlock	10
B118	Hemlock	9
B119	Hemlock	11
B120	Sugar Maple	18
B121	Red Maple	4
B122	Ash	4
B123	Hemlock	7
B124	Sugar Maple	23
B125	Hemlock	32
B126	Black Birch	4
B127	Yellow Birch	4
B128-1	Red Maple	4
B128-2	Red Maple	4
B129	Sugar Maple	33
B130	Hemlock	27
B131	Sugar Maple	4
B132	Red Maple	5
B133	Red Maple	6
B134	Red Maple	4
B135	Red Maple	4
B136	Black Birch	5
B137	Black Birch	18
B138	Hemlock	8
B139	Hemlock	3
B140	Hemlock	4
B141	American Beech	8
B142	American Beech	8
B143	Hemlock	9
B144	Red Maple	4
B145	Hemlock	8
B146	Black Birch	18
B147-1	Hemlock	10
B147-2	Hemlock	4
B148	Yellow Birch	4
B149	Hemlock	6
B150	Hemlock	3
B151	Hemlock	8
B152	Yellow Birch	11
B153	Hemlock	11
B154	Yellow Birch	4
B155	Black Birch	3
B156	Hemlock	7
B157	Hemlock	3
B158	Hemlock	4
B159	Hemlock	3
B160	Hemlock	6
B161	Black Birch	14
B162	Hemlock	4
B163	Hemlock	3

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
B164	Hemlock	4
B165	Hemlock	6
B166	Hemlock	4
B167	Hemlock	5
B168	Black Birch	7
B169	Hemlock	4
B170	Hemlock	4
B171	Ash	4
B172	Hemlock	5
B173	Yellow Birch	6
B174	Hemlock	16
B175	Black Cherry	21
B176	Hemlock	4
B177	Hemlock	5
B178	Hemlock	5
B179	Hemlock	4
B180	Hemlock	5
B181	Hemlock	18
B182	Hemlock	5
B183	Yellow Birch	5
B184	Yellow Birch	4
B185	Hemlock	5
B186	Black Birch	13
B187	Hemlock	4
B188	Black Birch	6
B189	Black Birch	7
B190	Hemlock	5
B191	Yellow Birch	3
B192	Yellow Birch	3
B193	Yellow Birch	13
B194	Hemlock	7
B195	Hemlock	4
B196	Hemlock	13
B197	Hemlock	15
B198	Hemlock	4
B199	Yellow Birch	4
B200	Hemlock	6
B201	Black Birch	6
B202	Yellow Birch	4
B203	Black Birch	3
B204	Hemlock	3
B205	Hemlock	4
B206	Yellow Birch	6
B207	Hemlock	5
B208	Hemlock	4
B209	Hemlock	4
B210	Black Birch	3
B211	Yellow Birch	6
B212	Hemlock	6
B213	Hemlock	5

ID	Species	DBH (inches)
B214	Hemlock	13
B215	Hemlock	17
B216	Hemlock	5
B217	Hemlock	6
B218	Yellow Birch	9
B219	Sugar Maple	11
B220	Hemlock	6
B221	Sugar Maple	7
B222	Sugar Maple	21
B223	Yellow Birch	13
B224	Hemlock	5
B225	Black Birch	11
B226	Hemlock	6
B227	Hemlock	5
B228	Black Birch	13
B229	Ash	4
B230	Black Birch	9
B231	Hemlock	23
B232	Hemlock	12
B233	Black Birch	9
B234	Hemlock	5
B235	Hemlock	5
B236	Black Birch	13
B237	Hemlock	10
B238	Black Birch	6
B239	Hemlock	22
B240	Black Birch	8
B241-1	Black Birch	6
B241-2	Black Birch	11
B241-3	Black Birch	9
B241-4	Black Birch	9
B242	Hemlock	12
B243	Hemlock	4
B244	Sugar Maple	13
B245	Hemlock	4
B246	Paper Birch	9
B247	Red Maple	8
B248	Black Birch	3
B249	Serviceberry	4
B250	Red Maple	6
B251	Red Oak	19
B252	American Elm	7
B253	Sugar Maple	13
B254	Red Maple	15
B255	White Pine	4
B256	Black Birch	3
B257	Black Birch	9
B258	Hemlock	7
B259-1	White Pine	6
B259-2	White Pine	13

Table F-1
Tree Survey Summary
Dewey Loeffel Landfill Superfund Site - Nassau, New York

ID	Species	DBH (inches)
B259-3	White Pine	9
B259-4	White Pine	6
B260-1	Black Birch	11
B260-2	Black Birch	10
B260-3	Black Birch	9
B261	Black Birch	6
B262	Serviceberry	6
B263	White Pine	20
B264	Unknown Sp.	8
B265-1	White Pine	8
B265-2	White Pine	9
B265-3	White Pine	25
B265-4	White Pine	9
B266	White Pine	17
B267-1	White Pine	11
B267-2	White Pine	12
B267-3	White Pine	14
B268	Unknown Sp.	9
B269	White Pine	25
B270	American Elm	6
B271-1	White Pine	14
B271-2	White Pine	19
B271-3	White Pine	10
B272	American Elm	3
B273	Black Birch	10
B274	Musclewood	4
B275-1	White Pine	11
B275-2	White Pine	16
B276-1	White Pine	14
B276-2	White Pine	4
B277-1	Black Birch	12
B277-2	Black Birch	8
B278	White Pine	15
B279	Black Birch	13
B280	Sugar Maple	13
B281	Hemlock	5
B282	Red Maple	14
B283	Black Birch	10
B284	Ash	4
B285	White Pine	3

Abbreviations, Notes, and Definitions:

1. DBH = diameter at breast height. DBH >18 inches is shaded grey.
2. ID = identification. Trees and trunks identified by a letter designation indicating stream orientation (A for right bank and B for left bank, looking in the direction of flow) and numbered consecutively with the highest A and lowest B at the upstream end of Tributary T11A.
3. Trees speciated for all trunks greater than 3-inch DBH; only trees greater than 18-inch DBH were surveyed.
4. Unknown Sp. indicates species not identified.

APPENDIX G

Vegetative Assessment Species List

Table G-1
Vegetative Assessment Species List
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Scientific Name (Common)	Wetland Indicator Status[1]
Acer sp. (Maple Species)	NI
Acer rubrum (Red Maple)	FAC
Acer saccharinum (Silver Maple)	FACW
Acer saccharum (Sugar Maple)	FACU
Alliaria petiolata (Garlic Mustard)	FACU
Amelanchier canadensis (Serviceberry)	FAC
Amphicarpaea bracteata (Hog peanut)	FAC
Athyrium filix-femina (Northern Lady Fern)	FAC
Betula alleghaniensis (Yellow Birch)	FAC
Betula lenta (Black Birch)	FACU
Betula papyrifera (Paper Birch)	FACU
Carex lurida (Lurid Sedge)	OBL
Carex plantaginea (Plantain Sedge)	FACW
Carex sp. (Carex Species)	NI
Carex stricta (Tussock Sedge)	OBL
Carpinus caroliniana (Blue Beech)	FAC
Carya ovata (Shagbark Hickory)	FACU
Crataegus monogyna (Hawthorn)	FACU
Dichanthelium clandestinum (Deertongue)	FACW
Dryopteris marginalis (Marginal Woodfern)	FACU
Echinochloa crus-galli (Barnyardgrass)	FAC
Elymus repens (Quack Grass)	FACU
Equisetum arvense (Field Horsetail)	FAC
Equisetum hyemale (Scouring Rush)	FAC
Euthamnia gramnifolia (Grass-Leaved Goldenrod)	FAC
Fagus grandifolia (American Beech)	FACU
Fallopia japonica (Japanese Knotweed)	FACU
Fragaria vesca (Wild Strawberry)	UPL
Fraxinus pennsylvanica (Green Ash)	FACW
Galium palustris (Marsh Bedstraw)	OBL
Hamamelis virginiana (Witch Hazel)	FACU
Juglans nigra (Black Walnut)	FACU
Juncus effusus (Soft Rush)	OBL
Lonicera japonica (Honeysuckle)	FACU
Lycopus americana (Water Horehound)	OBL
Lythrum salicaria (Purple Loosestrife)	OBL
Malva neglecta (Common Mallow)	UPL
Mitchella repens (Partridgeberry)	FACU
Quercus sp. (Oak Species)	NI
Onoclea sensiblis (Sensitive Fern)	FACW
Osmunda claytoniana (Interrupted Fern)	FAC
Panicum capillare (Witch Grass)	FAC
Phragmites australis (Common Reed)	FACW
Pilea pumila (Clearweed)	FACW
Pinus strobus (White Pine)	FACU
Plantago major (Common Plantain)	FACU
Poa palustris (Fowl Bluegrass)	FACW
Polygonum sagittatum (Arrowleaf Tearthumb)	OBL

Table G-1
Vegetative Assessment Species List
Dewey Loeffel Landfill Superfund Site - Nassau, New York

Scientific Name (Common)	Wetland Indicator Status[1]
Polystichum acrostichoides (Christmas Fern)	FACU
Potentilla simplex (Cinquefoil)	FACU
Quercus rubra (Red Oak)	FACU
Rosa multiflora (Multiflora Rose)	FACU
Rubus allegheniensis (Wild Raspberry)	FACU
Rubus sp. (Raspberry/Blackberry Species)	NI
Salix nigra (Black Willow)	OBL
Solanum dulcamara (Nightshade)	FAC
Solidago gigantea (Giant Goldenrod)	FACW
Solidago sp. (Goldenrod species)	NI
Spahgnum sp. (Moss)	NI
Sparganium americanum (American Bur-Reed)	OBL
Symphyotrichum ericoides (White Aster)	FACU
Thelypteris noveboracensis (New York Fern)	FAC
Tsuga canadensis (Eastern Hemlock)	FACU
Typha latifolia (Broad Leaf Cattail)	OBL
Ulmus americana (American Elm)	FACW
Vaccinium sp. (Blueberry Species)	NI

Abbreviations, Notes, and Definitions:

1. Wetland indicator status is based on northeast regional listings found within the New York State Freshwater Wetlands Delineation Manual and supplemented by United States Department of Agricultural Plants database listings.

2. Status definitions:

OBL - Obligate Wetland Plants; plants that occur almost always in wetlands under natural conditions, but may also occur rarely in non-wetlands.

FACW - Facultative Wetland Plants; plants that occur usually in wetlands, but also occur in non-wetlands.

FAC - Facultative Plants; plants with a similar likelihood of occurring in both wetlands and non-wetlands.

FACU - Facultative Upland Plants; plants that occur sometimes in wetlands, but occur more often in non-wetlands.

UPL - Obligate Upland Plants; plants that occur rarely in wetlands, but occur almost always in non-wetlands under natural conditions.

NI - No Indicator available.