

PERIODIC REVIEW REPORT SEPTEMBER 2020 – MARCH 2022

DEPEW VILLAGE LANDFILL SITE DEPEW, NEW YORK 14043

NYSDEC Site No. 915105 Work Assignment No. D009812-04



Prepared for:



NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12th Floor Albany, New York 12233

Prepared by:



TRC Engineers, Inc.

1430 Broadway, 10th Floor New York, New York 10018



TABLE OF CONTENTS

SECTION	<u>N</u>	PAGE
Executi	ive Summary	i
1.0	1.0 Introduction	1
1.1	Site Location, Ownership, and Description	2
1.2	Investigation/Remedial History	3
1.3	Remaining Contamination	6
1.4	Regulatory Requirements/Remedial Controls	6
2.0	2.0 Institutional and Engineering Control Plan Compliance	8
2.1	Introduction	8
2.2	Institutional Controls	8
2.3	Engineering Controls	9
2.3	3.1 Engineering Control Systems	9
2.3	3.2 Criteria for Completion of Remediation/Termination of Engineering Cont	rols10
3.0	Monitoring and Sampling Plan Compliance	11
3.1	Site Inspection	12
3.2	Groundwater Monitoring Summary	13
3.2	2.1 Groundwater Gauging	13
3.2	2.2 Groundwater Gauging	14
3.2	2.3 Groundwater Sample Results	15
3.2	2.4 Sediment Sample Results	16
3.2	2.5 Surface Water Sample Results	16
4.0	Cost Summary	17
5.0	Conclusions and Recommendations	18
5.1	Conclusions	18
5.2	Recommendations	
6.0	Certification of Engineering and Institutional Controls	20
7.0	Future Site Activities	21



LIST OF FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Layout Map
- Figure 3 Groundwater Monitoring Locations and Results
- Figure 4 Sediment Monitoring Locations and Results
- Figure 5 Surface Water Monitoring Locations and Results

LIST OF TABLES

- Table 1 Summary of VOCs and Metals in Groundwater January 2022
- Table 2 Summary of Metals in Sediment December 2021
- Table 3 Summary of Metals in Surface Water December 2021

LIST OF APPENDICES

- Appendix A Site History, Custodial Record and Well Summary
- Appendix B Semi-annual Site Inspection December 2021
- Appendix C Groundwater Sampling Logs
- Appendix D Data Usability Summary Reports Groundwater, Surface Water, Sediment



Executive Summary

Category	Summary/Results			
Engineering Control (ECs)	 Cover System consisting of landfill cap Site fencing to mitigate potential for human contact with contaminants Sediment and erosion control Groundwater/Surface Water/Sediment/Biota/Air Quality Monitoring 			
Institutional Control (ICs)	 Site Management Plan (SMP) – OU-01 and OU-02 (August 2020) Environmental Easement (EE) – current status is draft, final EE to be incorporated once completed. Groundwater Use Restriction Land Use Restriction 			
Site Classification	Class 2 – to be reclassified as a Class 4 upon finalization of EE submission			
Site Management Plan	SMP – August 2020			
Certification/Reporting Period	The SMP requires semiannual inspections and monitoring, followed by a Periodic Review Report (PRR) which is to be prepared and submitted on an annual basis.			
Inspection	Frequency			
Site Inspections	Semi-annual (see Recommendations) and post-sever weather conditions			
Monitoring	Frequency			
 Groundwater Surface Water Sediments/Biota On-Site/Import Soils Air/Soil Vapor 	 Semi-annual (see Recommendations) Semi-annual (see Recommendations) Semi-annual (see Recommendations) As-needed During groundwater monitoring or intrusive work 			
Prior PRR Recommendations	No prior PRR Recommendations.			
Site Management Activities	 A Site inspection was performed, one round of sediment, surface water, and groundwater samples was collected, and head space monitoring was conducted during this reporting period (September 2020 – March 2022). 12/21/2021 – Semi-annual Site inspection and Site visit to mark-out/verify sample locations. 12/30/2022 – Collected sediment/surface water samples from seven locations along the Cayuga Creek embankment on Site. All samples collected were submitted to Pace Analytical Services (Pace) for lab analysis. 1/3/2022 & 1/4/2022 – Collected groundwater samples from the five monitoring wells on Site. All samples collected were submitted to Pace for analysis. During the groundwater sampling event, head space monitoring was performed using a photoionization detector (PID) and no measurable organic vapors were detected. 			



Significant Findings or Concerns	 Seepage and staining was observed in sediment along the creek bank in the immediate vicinity of sediment sampling location SD-02 (downgradient of MW-01). Monitoring well MW-06 had been broken off at the ground surface (potentially hit by a lawn mower). Concentrations of VOCs, including 1,4-dichlorobenzene, benzene, and chlorobenzene; exceeded their corresponding class GA values in MW-06 (located in close proximity to the closed landfill). Concentrations of metals, primarily lead and mercury, exceeded the corresponding class GA values in MW-01 and MW-04, respectively. Concentrations of metals, primarily copper, lead, nickel, silver, and zinc, exceeded the corresponding Class A freshwater sediment guidance values in locations SD-01, SD-02, and SD-04. All concentration were below the Class C Values, however.
Recommendations	 Schedule repairs on monitoring well MW-06. Schedule land surveyor to establish horizontal and vertical control at the Site. Decrease inspection and groundwater/surface water/sediment monitoring frequencies to annually (15 months), and prepare PRRs following each event. Collect samples of sediment and surface water at the seep location in the vicinity of MW-01/SD-02 to evaluate the need for corrective actions (at the next monitoring event). Collect groundwater samples from MW-04, MW-05, and MW-06 for PFAS constituents (at the next monitoring event). Develop updated groundwater flow potential maps based on the next round of hydraulic monitoring measurements. Develop an SMP addendum/revision to reflect the recommended changes.
Cost Evaluation	The total cost of the Site management activities during this reporting period was \$23,400. This cost includes engineering and equipment costs (laboratory services were provided by call-out). It should be noted that this total does not include call-out costs or any additional costs incurred by the NYSDEC in support of the project.



1.0 Introduction

This Periodic Review Report (PRR) has been prepared for the Depew Village Landfill Site, located at Rutherford Place, Depew, Erie County, New York (the Site). This PRR covers the period between September 2020 through March 2022. This PRR was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation (DER) Work Assignment (WA) No. D009812-04 Notice to Proceed dated February 27, 2020, the NYSDEC-approved amended Scope of Work dated July 20, 2020 (WA No. D009812-04.29) and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC DER-10). This PRR discusses the Site management activities performed by TRC Engineers, Inc., and others during the referenced reporting period. A Site summary and applicable remedial program information are summarized below.



Site Information						
Site Name:	Depew Village Landfill Site	NYSDEC Site No:	915105			
Site Location:	Rutherford Place, Depew, Erie County, New York	Remedial Program:	State Superfund Program			
Site Type:	Landfill	Classification:	02			
Parcel Identification(s):	103.20-1-13.11, 114.08-8-10.1 and 114.08-8-10.2, Erie County Tax Map	Parcel Acreage / EE Acreage:	Parcels combined 27.8 acres (9.5, 12.5, 5.8); OU 1 occupies approx. 20 acres; OU 2 occupies approx. 2 acres.			
Selected Remedy:	Excavation and cover system; Groundwater, Surface Water, and Sediment Monitoring; Community Protection/Air Monitoring Plan	Site COC(s):	VOCsMetalsSoil Vapor (Head Space)			
Current Remedial Program Phase:	Post-Remedial Action Site Monitoring; Site Management	Institutional Controls:	 Land and groundwater use restrictions Monitoring and maintenance of ECs Periodic certification of ICs/ECs 			
Post-Remediation Monitoring and Sampling Frequency:	 Site Inspection: Semi-annual Groundwater, Surface Water, and Sediment/Biota Monitoring: Semi-annual Air/Soil Vapor Monitoring: During groundwater monitoring or intrusive work 	Engineering Controls:	 Landfill Cap Erosion and Sediment Controls Groundwater Monitoring Surface Water Monitoring Sediment Monitoring Air Quality Monitoring Fencing 			
Monitoring Locations:	 5 Overburden Monitoring Wells 7 Embankment Sediment Sample Locations 7 Creek Surface Water Sample Locations 	Required Reporting:	Data Submittal: follow each event. PRR: Annual			

1.1 Site Location, Ownership, and Description

The Depew Village Landfill Site is situated in a suburban setting in the Village of Depew, New York. The Site is situated adjacent to the Village of Depew Department of Public Works (DPW) facility off Rutherford Place. The Site sits on an oxbow peninsula of Cayuga Creek, a Class C navigable stream that empties into Lake Erie via the Buffalo River. The approximately 22-acre Site all or portions of lots 103.20-1-13.11, 114.08-8-10.1 and 114.08-8-10.2 (section-block-lot), based on examination of the Erie County Tax Map. The Site is currently owned by the Village of Depew. The predominant Site features include: Cayuga Creek, which forms the southern, eastern and western boundaries of the Site; Zurbrick Road across the creek to the south; the Erie County Sewer District #4-





Overflow Retention Facility (ORF) in the middle of the peninsula; and the Village of Depew DPW operations to the north. Along the perimeter creek bank there are unmanaged trees and brush. The Site is currently inactive with access controlled through the DPW and Erie County ORF via chain-link fencing. The surrounding properties across the creek to the south, east, and west are residential and are not access-limited. The property to the north is opened mowed fields, village or county buildings, and residential properties. The landfill portion of the Site is zoned commercial/industrial. A Site Location Map and a Site Layout Map are included as **Figure 1** and **Figure 2**, respectively.

1.2 Investigation/Remedial History

In 1983, NYSDEC listed the Site as a Class 2a site in the registry of inactive hazardous waste disposal sites. Class 2a was a temporary classification assigned to sites that had inadequate and/or insufficient data for inclusion in the other classifications. Also, in 1983, Erie County acquired 14.5 acres of the peninsula for the ORF project. During ORF construction, approximately 60,000 cubic yards of fill material was removed from the site and disposed of in the BFI Landfill in Tonawanda, New York; however, no chemical analysis of the material was performed. Following ORF construction, the County reconvened the remaining 9.5 acres to the Village of Depew.

The Erie County Department of Environment and Planning prepared a "Hazardous Waste Site Profile Report" in 1985 that concluded no hazardous waste was disposed of at the Site. In 1988, NYSDEC conducted a Phase I Investigation at the Site and recommended conducting a Phase II Investigation. In 1990, NYSDEC delisted the Site from the Registry based on the determination that no hazardous wastes were present.

In 2001, the Village of Depew entered into a Section 14 (1946 Flood Control Act) Project Cooperation Agreement (PCA) with the U.S. Army Corps of Engineers (USACE) to perform an Emergency Streambank Protection Project. The project focused on a section of Cayuga Creek north of Zurbrick Road and south of the Site on the left descending bank. As part of the project, the design called for excavating a section of the stream bank. During the excavation, the USACE contractor noticed the presence of fill materials and conducted sampling and analysis. The analysis indicated total lead concentrations as high as 86,000 parts per million (ppm) in the soils. In addition, the samples failed the U.S. Environmental Protection Agency's (EPA's) Toxicity Characteristics Leaching Procedure (TCLP) for leachable lead. Based on the determination that hazardous waste was present and in accordance with the PCA, the USACE ceased operations on the stream bank stabilization project.

In 2002, the Village of Depew entered NYSDEC's Voluntary Cleanup Program (VCP) and the Site was designated as V00609-9. In 2003, a Site investigation was conducted by the Village's consultant that focused on the 1.3-acre Area 2 at the tip of the peninsula. In 2004, a Site Investigation/Remedial Report (SI/RR) was prepared by Pan American Environmental Inc. and URS Corporation, Inc. This report confirmed the presence of hazardous waste and also indicated that the lead contamination most likely extends to the north, beyond the registry area on the peninsula tip. Due to the estimated volumes of hazardous material thought to be present, the Village of Depew opted out of the VCP. The Voluntary Cleanup Agreement was subsequently terminated, and NYSDEC relisted the Site as a Class 2 site.

In early 2007, NYSDEC finalized a Site Boundary Modification Package, which increased the Site size in the Registry from 1.3 to 20 acres. The Site boundary modification was based on the extent of the lead contamination as determined from the SI/RR results. The modified Site boundary included the majority of the footprint of the original landfill. In addition, the Site was divided into two operable units (OUs). The landfill and surrounding





impacted area was designated OU-01. OU-02 was created based on the fact that the sediments in the stream around the landfill were determined to be contaminated above NYSDEC guidance values for lead. Additionally, since the downstream extent of impacts in OU-02 had not yet been delineated, investigations continued in this operable unit.

An RI/FS for OU-01 was completed in 2006, and a ROD was issued in March of 2008. The ROD selected stream bank soil removal, stream bank stabilization, a soil cover, passive landfill gas venting, monitoring, and ICs as the remedy for OU-01. An RI/FS for OU-02 was completed in June 2009, and a ROD was issued in December 2009. The ROD selected sediment excavation from Cayuga Creek, soil removal from the floodplain and Zurbrick Road slopes, and stream bank remediation and stabilization. Contaminated soils and sediments removed in the process would be excavated and disposed of off-Site.

The Site remediation was undertaken in phases beginning in October 2011. Work Areas, assigned during preparation of the remedial designs, were used to identify varying work scopes in different sections of the creek. The location and approximate extent of each Work Area are illustrated in **Figure 2**. The table below outlines the work scopes applied to each of the areas.

Summary of Work Areas and Associated Remedial Activity Descriptions				
Location	Description			
	Zurbrick Road Stream Bank Remediation and Reconstruction:			
Area 1	Excavation of lead-contaminated soil			
(OU-02)	Backfill of excavation and installation of riprap, drainage features, and bend-way weirs			
	Restoration and hydroseeding			
	Landfill Tip Remediation and Reconstruction:			
Area 2	Excavation of lead-contaminated soils			
(OU-01)	Japanese knotweed removal, backfill, and installation of riprap			
	Restoration and hydroseeding			
Area 3	Cayuga Creek Sediment Removal (east and south sides of the landfill):			
	Sediment removal			
(OU-01)	Restoration and hydroseeding			
A 1	Landfill Stream Bank Restoration (2 phases):			
Area 4	Vegetative stabilization of shoreline			
(OU-01)	Restoration and hydroseeding			
	Landfill Stream Bank Restoration:			
Area 5	Japanese knotweed removal and vegetative stabilization			
(OU-01)	Restoration and hydroseeding			
	Landfill Excavation and Stream Bank Restoration:			
Area 6 (OU-01)	Excavation and backfill			
	Restoration and hydroseeding			
Area 7	Cayuga Creek Stream Bank Restoration:			
(OU-01)	Vegetative stabilization of shoreline			
, ,	Restoration and hydroseeding			





Summary of Work Areas and Associated Remedial Activity Descriptions						
Location Description						
Area 8	Landfill Soil Cap (2 phases):					
(OU-01)	Soil and stone cappingRestoration and hydroseeding					

Beginning in October 2011, the following actions were completed:

- Contaminated soils were excavated from two lead-contaminated stream bank locations in Area 4;
- Large stones and rock keys were installed along the toe of the stream bank as an erosion prevention measure;
- Excavated areas were backfilled with clean material;
- Coir logs, filter fabric, topsoil, and erosion control blankets (ECBs) were installed to stabilize stream banks;
- Container plants, trees, and hydroseed was planted to restore the site and stabilize the stream bank; and
- Live stakes were installed along the stream bank to stabilize and control erosion and reduce Japanese knotweed propagation on the stream bank.

The following actions were completed during Phase 2 of the Site remediation work:

- Contaminated soil was excavated from the Zurbrick Road slope in Area 1 and placed in Area 8, which was designated for use as a landfill for the remediation-generated wastes. The slope of the embankment was modified to a 1V:3H ratio during reconstruction using clean structural fill and compacted bank run soil. The lower half of the finished slope was armored with heavy riprap to provide protection from seasonal creek flooding and erosion. Live stakes were planted between the riprap into the underlying creek bed to provide additional stability and an emergent buffer for wildlife at the waterline. Above the flood line, clean topsoil, grass seed, and fertilizer were installed under a biodegradable ECB to protect the slope from erosion until a vegetation layer is established.
- Contaminated soil was excavated from Area 2 at the tip of the peninsula and placed in the landfill in Area 8. Invasive species covering Area 2 were eradicated both mechanically and with herbicidal chemical agents. The tip of the peninsula and creek channel were relocated 50 feet to the north to make room for the reconstructed Zurbrick Road slope. The lower portion of the finished streambank was armored with medium-sized riprap to provide protection from seasonal creek flooding. Clean soil, ECB, and topsoil were installed on the reconfigured streambank, and the bank was hydro-seeded. Live stakes were planted between the riprap into the underlying creek bed to provide additional stability and an emergent buffer for wildlife at the waterline. Container plantings were installed on the terrace at the top of the stream bank in Area 2 to provide additional slope stability and a visual buffer.
- The creek bed in Area 3 on the eastern side of the Site was dewatered and cleaned of contaminated sediments. Clean bank run material was installed in the creek bed and large stones moved during remediation were replaced in their original locations.



- Live stakes and container plantings were installed in Area 5 to help stabilize the stream bank and prevent erosion. The stream bank had previously been impacted by invasive species, which had been removed.
- Contaminated soils were excavated in Area 6 and moved to Area 8. Clean soil, ECB, and topsoil were
 installed on the reconfigured streambank in Area 6, and the bank was hydroseeded. Container plantings
 and stone armored drains from the adjacent DPW parking area were added to provide additional slope
 stability.
- Area 7 was cleared of invasive species and planted with live stakes and container plantings to stabilize the streambank and prevent erosion;
- A clean soil landfill cap was installed and hydroseeded on the non-wooded areas in Area 8 in compliance with the ROD. A geotextile segregation barrier with 6-inch-thick proof-rolled stone cap was installed in the DPW parking and material storage areas.

The following actions were completed during Phase 3, the final phase of the Site remediation work:

- Sediments of ½-inch size and smaller were removed from the creek bed to a depth of 1 foot, bank to bank, in Area 3 along the western side of the Site, under the Borden Road Bridge. Sediments ½-inch size and smaller were removed from depositional areas in the creek bed to the west of the Borden Road Bridge. Large stones moved during remediation were replaced in their original locations;
- The western shoreline of the Site was cleared of invasive species and planted with live stakes to stabilize the stream bank and prevent erosion.

A Site history, including the dates and descriptions of significant events and a Custodial Record detailing known and available Site reports, are included in **Appendix A**. Additional details are presented in the OU-01 and OU-02 SMP as well as historic Site documents.

1.3 Remaining Contamination

After completion of the Site remedial work in 2017, some contamination was left in place in the subsurface at the Site ("remaining contamination"). The primary contaminants of concern are metals including lead, mercury, and arsenic in the sediment and soil, methane in soil vapor, and volatile organic compounds (VOCs) including benzene, and metals including mercury and lead in the groundwater. This remaining contamination in the capped landfill, as well as residual contamination in the sediment, soil, soil vapor, and groundwater is being managed under the Site Management Plan.

1.4 Regulatory Requirements/Remedial Controls

The five main remedial goals selected for the Site, as identified in the RODs for OU-01 and OU-02, are to eliminate, to the extent practicable, the following:

 Human exposure to contaminants in the surface, subsurface soils, and creek sediment at or around the Site;





- Exposure of flora or fauna to contaminants in surface and subsurface soils;
- Soil gas migration and potential vapor intrusion/buildup of gases in surrounding buildings, structures, and utilities, which could cause a health and safety concern;
- Impacts on biota from ingestion/direct contact with soil causing toxicity, or impacts from bioaccumulation through the terrestrial and aquatic food chains; and
- Release of contaminants from the Site into the surface water and sediments of Cayuga Creek through erosion.

In addition, the remedy includes monitoring of the designated on- and off-Site locations with respect to the remaining contamination. These monitoring elements include the following:

- Long-term monitoring of the groundwater well network to determine trends in groundwater quality and to determine whether an upgradient source of groundwater contamination exists;
- Long-term monitoring of surface water and sediment to determine whether contaminants are migrating off-Site;
- Long-term biota monitoring to report on wildlife resources, and verify the establishment of vegetation along the stream bank in areas where invasive species were removed and live stakes were installed; and

Long-term monitoring of reconstructed areas of the Site to verify and report integrity of the soil cover system, and stability of the Zurbrick Road slope.





2.0 Institutional and Engineering Control Plan Compliance

2.1 Introduction

ICs and ECs are needed to protect human health and the environment from the residual contamination present in soil and groundwater beneath the Site. This section describes the procedures for managing the ICs and ECs at the Site. The ICs and ECs are components of the SMP, and revisions to the SMP are subject to approval by NYSDEC.

NYSDEC's DER-10: *Technical Guidance for Site Investigation and Remediation* outlines the requirements for the phases of the remediation process. Among these requirements are the ICs and ECs that must be followed upon completion of the remedy and completed under the SMP. **Figures 2 through 5** identify locations of ECs for the Site. The environmental easements which will be filed by the Village of Depew and Erie County provide the ICs at the Site. The environmental easements are included in Appendix B of the SMP.

2.2 Institutional Controls

The ICs at the Site are necessary so that residual contaminated material remains undisturbed. Current and future Site owners will be required to perform soil characterization and disposal/reuse in accordance with NYSDEC regulations if residual contaminated soil is disturbed and/or excavated.

The ICs required by the environmental easements refer to non-physical mechanisms designed to:

- Identify the allowable use or development of the Site;
- Limit human exposure to Site contaminants;
- Prevent actions that would threaten the effectiveness of a remedy at or pertaining to this Site; and
- Implement, maintain, and monitor ECs.

In addition to the ICs identified above, the environmental easement also stipulates the following:

- Compliance with the SMP;
- Restrictions on the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by the NYSDOH;
- Periodic certification of ICs by the property owner; and
- Restriction on future property use that is no less restrictive than "commercial or industrial use" as defined by 6 NYCRR Part 375.

Institutional controls may not be discontinued without approval of NYSDEC.





2.3 Engineering Controls

2.3.1 Engineering Control Systems

The ECs established at the Site are designed to mitigate the migration of contaminants by reducing the amount of precipitation infiltrating into the contaminant mass. Groundwater, surface water, and sediment monitoring are conducted to track contaminant trends identify if contaminant migration is occurring. The analytical results for samples collected from the monitoring locations will be used to evaluate the control of contaminants at the site. Media-specific monitoring plans are provided in the SMP.

2.3.1.1 OU-01 (Depew Village Landfill and Creek Sediments) and OU-02 (Zurbrick Road Slope)

During the three phases of remedial activities at the Site, several ECs were installed to limit contaminant migration and prevent contamination from entering Cayuga Creek. The ECs installed during Site remediation and the procedures for inspection and maintenance are summarized below. Refer to **Figure 2** for the location of each area.

- Area 1 (OU-02): The stream bank along the north side of Zurbrick Road was remediated, reconstructed, and stabilized to prevent migration of contaminated soil and collapse of the roadway embankment into Cayuga Creek as a result of erosion. This is intended to be a permanent control, and the stream bank slope and surrounding areas will be inspected during each semi-annual monitoring event. Inspection of this area will focus on the presence of erosion around the edges of riprap and live stakes as well as the detection of significant slope movement. Live stakes are anticipated to grow and further stabilize the stream bank over time. A guiderail that was installed at the northern edge of Zurbrick Road will also be inspected for damage and for the presence of erosion, settlement, or undermining.
- Area 2 (OU-01): The stream bank along the southwestern tip of the peninsula was remediated, reconstructed, and stabilized to prevent erosion of potentially contaminated soil into Cayuga Creek. Semi-annual inspections will focus on the presence of erosion and the growth of live stakes over time.
- Area 3 (OU-01): Contaminated sediment from Cayuga Creek was removed to prevent further migration downstream. Semi-annual monitoring and inspections, as well as sampling of the creek bed sediment and surface water will be conducted to monitor sediment contamination trends.
- Area 4 (OU-01): The stream bank along the eastern edge of the peninsula was remediated and then stabilized with a row of heavy riprap, a rock key, coir logs, filter fabric, topsoil, ECBs, and live stakes. These permanent ECs will be inspected semi-annually. Inspections will focus on the presence of erosion, and displacement of any of the features listed above. Live stakes are anticipated to grow and further stabilize the area over time. Additionally, inspections will focus on the potential presence of ash/fill material from the landfill exposed at the surface due to elevated creek flow.
- Area 5 (OU-01): The stream bank along the western edge of the peninsula was stabilized with
 container plantings and live stakes as an erosion control measure. Semi-annual inspections will
 focus on the presence of erosion and the growth of live stakes over time.





- Area 6 (OU-01): The stream bank along the northwestern edge of the peninsula was remediated, reconstructed, and then stabilized with ECB, grass, container plantings, and large trees. These permanent ECs will be inspected semi-annually, focusing on identification of any evidence of erosion and the growth of the trees and containers over time.
- Area 7 (OU-01): The stream bank along the left descending bank of Cayuga Creek, west of Borden Road, was stabilized with live stakes and container plantings as an erosion control measure. Semiannual inspections will focus on the presence of erosion and the growth of live stakes over time.
- Area 8 (OU-01): The landfill in Area 8 was capped, graded, and seeded to prevent human and/or wildlife exposure contaminants and to mitigate migration of contaminants via wind or soil erosion into Cayuga Creek. This permanent EC will be inspected during each semi-annual monitoring event. Inspections will focus on evidence of erosion along the graded surfaces of the cap, exposure of ash/fill materials from the original and newly landfilled areas at the surface or stream banks, and settlement or ponding of water that may be observed on the cap. Additionally, semi-annual inspections will document areas of the cap that may need filling or reseeding. Inspection procedures and forms are provided in the SMP.

2.3.1.2 Monitored Contaminant Confinement

Groundwater, surface water, sediment, and biota monitoring activities will be performed so that the contamination is not mobilized to the Cayuga Creek environment due to dissolution in the groundwater and/or by direct erosion of the soils.

Semi-annual groundwater sampling shall continue until NYSDEC has determined that residual levels of contaminants in groundwater are consistently within SCGs or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC. If groundwater contaminant levels become asymptotic at levels that are not acceptable to NYSDEC, additional source removal, treatment, and/or control measures may be required and will be evaluated.

2.3.2 Criteria for Completion of Remediation/Termination of Engineering Controls

Generally, remedial processes are considered completed when the effectiveness of the monitoring program indicates that the remedy has achieved the remedial action objectives identified by the ROD or other post-remedial decision documents. The framework for determining when remedial processes are complete is provided in Section 6.5 of NYSDEC's DER-10: *Technical Guidance for Site Investigation and Remediation*.





3.0 Monitoring and Sampling Plan Compliance

The SMP was prepared to manage remaining on-Site contamination and to ensure that the remedy remains effective by restricting Site use, Site development, and soil movement on the property. The table below shows the SMP-specified monitoring and sampling activities for the Site and indicates the dates those activities were completed for this PRR:

Summary of SMP Site Monitoring and Sampling Plan							
Site Management Activity	Frequency ¹	Location(s)		Analytical Method ^{2,3}	Completion Date(s)		
Groundwater	Semi- annually	MW-01 MW-02 MW-04 MW-06		 SW-846 Methods 6010, 7470A for Inorganic Contaminants (Metals, incl. Lead/Mercury). SW-846 Method 8260B for VOCs. Results evaluated against TOGS 1.1.1 Class GA Groundwater Values. 	1/3/2022 and 1/4/2022		
Surface Water	Semi- annually	SW-01 SW-02 SW-03	SW-04 SW-05 SW-06 SW-07	 SW-846 Method 200.7/245.1 for 13 priority pollutant metals. Results evaluated against TOGS 1.1.1 Class A H(WS) Surface Water Values. 	12/30/2021		
Sediments	Semi- annually	SD-01 SD-02 SD-03 SD-06 SD-07		 SW-846 Methods 6010, 7470A for Inorganic Contaminants (Metals, incl. Lead/Mercury). Compared to NYSDEC Sediment Guidance Values, Table 5 – Freshwater Sediment Values for Class A. 	12/30/2021		
On-Site Soils and Imported Soils	As needed ⁴	Not Ap	plicable	• SW-846 EPA Methods 6010, 7470A.	N/A		

Notes:

(US)EPA - United States Environmental Protection Agency

VOCs - Volatile organic compounds



¹ The sampling frequency will be as indicated unless otherwise specified by NYSDEC.

² Additional analytical parameters may be required under DER-10 for compliance with the Site cleanup objectives.

³ Lead is analyzed through SW-846 Method 6010. Mercury is analyzed through SW-846 Method 7470A. VOCs are analyzed through SW-846 Method 8260B.

⁴ When intrusive work is required on Site; also requires Community Air Monitoring.



3.1 Site Inspection

TRC conducted Site inspections during December 2021 and January 2022 in accordance with the SMP. The Site inspections were conducted to document the overall Site conditions, status of the groundwater monitoring system components via the condition of monitoring wells, the condition of the creek embankments, and the condition of the landfill cap.

A summary of the Site inspections is presented below:

Summary of Site Activities and Site Monitoring and Sampling September 2020 to March 2022								
Site Management Activity	Summary of Results	Maintenance/ Corrective Measure						
Sitewide Inspection	During the inspections it was noted that the well riser and protective casing for MW-06 appeared to have been broken off at the ground surface and was being protected only using a traffic cone. In addition, an area of groundwater seepage was identified in the vicinity of location SD-02. All other inspection items appeared in good condition, and there was no evidence of unusual erosion along the creek bank, or settlement or erosion of the landfill cap.	Recommend repair of the riser at MW-06 for continued use as a monitoring point. Also recommend installation of signage to signify the well location. The location of the seepage was selected for collection of the surface water and sediment sample for location SW-02/SD-02, as well as downstream SW-01/SD-01. Based on the results of these samples which slightly exceeded the Class A Sediment Values, continued monitoring of this area is recommended.						
Surface Water Sampling	Surface water grab samples were collected from each of the seven locations along the Cayuga Creek. Surface water samples were analyzed for 13 priority pollutant metals; No exceedances above the respective Class A surface water standards or guidance values were noted.	Recommend continued monitoring of all surface water locations as well as the groundwater seepage in the vicinity of SW-02.						



Summary of Site Activities and Site Monitoring and Sampling September 2020 to March 2022							
Site Management Activity	Summary of Results	Maintenance/ Corrective Measure					
Sediment Sampling	 SED-01: concentrations of three metals (Copper: 33.4 mg/kg; Lead: 118 mg/kg; Nickel: 27 mg/kg) exceeded the respective Class A sediment guidance values. SED-06: concentrations of three metals (Copper: 34.4 mg/kg; Nickel: 34.6 mg/kg; Silver: 1.1 mg/kg) exceeded the respective Class A sediment guidance values. SED-02: concentrations of five metals (Copper: 43.6 mg/kg; Lead: 39.3 mg/kg; Nickel: 30.9 mg/kg; Silver: 1.1 mg/kg; Zinc: 156 mg/kg) exceeded the respective Class A sediment guidance values. 	Recommend continued sampling and monitoring at all sediment locations as well as the sediment in the vicinity of the seepage identified above (near SD-02).					
Groundwater Gauging and Sampling	 GW-01: concentration of Lead (37.4 ug/L) exceeded the respective Class GA groundwater standard or guidance value. GW-04: concentration of Mercury (1.1 ug/L) exceeded the respective Class GA groundwater standard or guidance value. GW-02: concentrations of three VOCs (1,4-Dichlorobenzene: 5.0 ug/L; Benzene: 3.1 ug/L; Chlorobenzene: 38.2 ug/L) exceeded the respective Class GA groundwater standards or guidance values. 	Continued monitoring of all groundwater monitoring points is recommended. Additionally, based upon previous PFAS results in groundwater, these analytes will be added during future monitoring events.					

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Gauging

On January 3 and 4, 2022, all wells, were gauged for depth to groundwater to evaluate potential groundwater flow directions. Additionally, survey data is not available for any of the monitoring wells. The Site monitoring wells are all screened in the overburden hydrogeologic unit. Head space monitoring was also performed using a PID upon opening each monitoring well in coordination with the groundwater sampling event. The groundwater gauging and elevation measurements can be found on **Appendix C**. A summary of the hydrogeologic information is presented below:



January 2022 Hydrogeologic Summary									
Number of Gauged Wells Hydrogeologic Units Hydrogeologic Strata Monitoring Wells									
5	1	Overburden	MW-01, MW-02 MW-04, MW-05 MW-06						
Overburden Groundwater Elevation Range									
Lowest groundwater elevation ¹ : 11.35 feet bgs (MW-01)									
Highest groundwater elevation ¹ : 3.25 feet bgs (MW-05)									

Inferred Overburden Groundwater Flow Direction

Southwest by West²

Notes:

ft. bgs - Feet below ground surface.

- ¹ Measured from top of casings
- ² To be confirmed following recommended land survey activity

3.2.2 Groundwater Gauging

TRC conducted one semi-annual groundwater sampling events during the reporting period. TRC collected groundwater samples from five on-Site monitoring wells utilizing standard low-flow sampling techniques on January 3 and 4, 2022. Low-flow groundwater sampling was performed in accordance with TRC's June 2020 Generic Field Activities Plan (FAP), and documentation logs can be found in **Appendix C**. All groundwater samples, in addition to QA/QC samples collected at the frequencies specified in TRC's July 2020 Generic Quality Assurance Project Plan (QAPP), were submitted to Pace Labs for analysis of target compound list (TCL) VOCs via SW-846 method 8260B, and inorganics/metals via SW-846 Methods 6010 and 7470A.

A complete table with well construction details is in included in **Appendix A**. A summary of the groundwater sampling information and pertinent well details for each well is presented below:

Summary of Groundwater Monitoring and Sampling Activities January 2022							
Monitoring Well Details Groundwater S						roundwater Samplin	g Event
Well ID	Northing	Easting	Screen Zone ¹ (ft. bgs)	Unit Screened	DTW (ft. below TOC)	Analytes	Notes
MW-01	NM	NM	4.0 – 14.0	Overburden	9.3 (2006)	NS	DTB ¹ : 14.0 ft. bgs
MW-01	INIVI	INIVI	4.0 – 14.0	Overburden	11.35 (2022)	VOCs & inorganics/metals	DTB ² : 14.5 ft. bgs
MW-02	NM	NM	7.0 – 17.0	Overburden	NM (2006)	NS	DTB ¹ : 17.0 ft. bgs
IVI VV -UZ	INIVI	INIVI	7.0 – 17.0	Overburden	8.85 (2022)	VOCs & inorganics/metals	DTB ² : 16.6 ft. bgs



Summary of Groundwater Monitoring and Sampling Activities January 2022

	Monitoring Well Details				Groundwater Sampling Event						
Well ID	Northing	Easting	Screen Zone ¹ (ft. bgs)	Unit Screened	DTW (ft. below TOC)	Analytes	Notes				
MW 04	NIM	NIM	0.0 12.0	0	3.3 (2006)	NS	DTB ¹ : 13.0 ft. bgs				
MW-04	NM	NM	8.0 – 13.0	Overburden	7.00 (2022)	VOCs & inorganics/metals	DTB ² : 12.5 ft. bgs				
MW-05	NM	NM	25 05	Overburden	1.6 (2006)	NS	DTB ¹ : 8.5 ft. bgs				
M W -05	INIVI	TVIVI	3.5 – 8.5	3.3 – 8.3	3.3 – 8.3	3.3 – 8.3	3.3 – 6.3	Overburden	3.25 (2022)	VOCs & inorganics/metals	DTB ² : 7.9 ft. bgs
MW	NIM	NIM	10.0 20.0	011	6.5 (2006)	NS	DTB ¹ : 20.0 ft. bgs				
MW-06	NM NM	10.0 – 20.0	Overburden	10.0 (2022)	VOCs & inorganics/metals	DTB ² : 11.0 ft. bgs					

Notes:

DTW - Depth to water.

DTB – Depth to bottom.

ft. bgs - Feet below ground surface.

TOC - Top of casing.

NM - Not measured.

NS - Not sampled.

3.2.3 Groundwater Sample Results

Groundwater analytical data for VOCs and metals can be found in **Table 1**. The Data Usability Summary Reports (DUSR) can be found in **Appendix D**. A summary of the January 2022 groundwater analytical results is presented below:

Exceedances Summary of Laboratory Analytical Results in Groundwater												
Constituent	SCGs*	Concentration Range (µg/L)	Location with Highest Detection	Frequency Exceeding SCG								
VOCs												
1,4-Dichlorobenzene	3	ND - 5.0	MW-06	1 / 5								
Benzene	1	ND – 3.1	MW-06	1 / 5								
Chlorobenzene	5	ND – 38.2	MW-06	1/5								
Metals, Total												
Lead	25	ND – 37.4	MW-01	1 / 5								
Mercury	0.7	ND – 1.1	MW-04	1 / 5								

Notes:

ND - Not detected.

^{* -} NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.



¹ – Base upon well construction logs.

² – Base upon Jan. 2022 field measurements to TOC; suspected obstruction in well.



In January 2022, 1,4-dichlorobenzene, benzene, and chlorobenzene (VOCs) were detected at concentrations above the applicable SCG for these compounds in groundwater samples collected from one monitoring well (MW-06). Lead was detected at a concentrations above the applicable SCG in MW-01, and mercury was detected at a concentration above the applicable SCG in MW-04. Detected compounds exceeding their respective SCGs for each well are illustrated on **Figure 3**.

3.2.4 Sediment Sample Results

Sediment sample analytical data for metals can be found in **Table 2**. The laboratory data packages can be found in **Appendix D**.

Exceedances Summary of Laboratory Analytical Results in Sediment												
Constituent	SCGs*	Concentration Range (mg/kg)	Location with Highest Detection	Frequency Exceeding SCG								
Metals, Total												
Copper	< 32	11.3 – 43.6	SD-02	3 / 7								
Lead	< 36	18.1 – 118	SD-01	2/7								
Nickle	< 23	10.9 – 34.6	SD-04	3 / 7								
Silver	< 1	0.53 - 1.1	SD-04	2/7								
Zinc	< 120	66.3 – 156	SD-02	1 / 7								

Notes:

ND - Not detected.

In December 2021, Copper was detected at concentrations above the applicable SCG in sediment samples collected from three creek bank locations (SD-01, SD-02, SD-04). Lead was detected at concentrations above the applicable SCG in sediment samples collected from two locations (SD-01, SD-02), both downgradient of the Site. Nickel was detected at concentrations above the applicable SCG in sediment samples collected from three locations (SD-01, SD-02, SD-04). Silver was detected at concentrations above the applicable SCG in sediment samples collected from two locations (SD-02, SD-04). Zinc was detected at a concentration above the applicable SCG in one sediment sample (SD-02). The sample locations with metals concentrations above the respective SCGs are illustrated on **Figure 4.**

3.2.5 Surface Water Sample Results

Surface water analytical data for the for 13 priority pollutant metals can be found in **Table 3**. The laboratory data packages can be found in **Appendix D**. Although metals were detected in each sample collected in December 2021, none of the concentrations exceeded the respective Class A surface water SCGs.

^{* -} New York State Department of Environmental Conservation (NYSDEC), Class A of Freshwater Sediment Guidance Values, Screening and Assessment of Contaminated Sediment, June 24, 2014.



4.0 Cost Summary

The total estimated cost of TRC's management activities for 2020 and 2022 (September 2020 through March 2022) is approximately \$23,400. Site management activities during the reporting period included one semi-annual Site inspection; one sampling event of seven sediment and surface water monitoring locations, with analysis for metals; one sampling event of five monitoring wells with analyses for VOCs and metals; and preparation of this PRR. The total includes engineering costs, as well as expenses associated with the project. Laboratory services were provided under a Department call-out contract with Pace. It should be noted that the total does not include the laboratory costs or other costs incurred by NYSDEC for project support. A summary of the 2020 through 2022 Site's management costs are presented below:

Summary of Site Management Costs September 2020 through March 2022										
Cost Item	Amount Expended	Percent of Total Cost								
Engineering Support										
TRC	\$22,800	97%								
Expenses										
TRC	\$600	3%								
Total Cost	\$23,400									

The following provides a review of each cost item:

- Engineering support includes labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.), Site inspections, groundwater, sediment, and surface water sampling, data validation, electronic data deliverable preparation, and reporting (i.e., PRR preparation and DUSR).
- Expense costs include travel, equipment, investigation-derived waste disposal, and supplies in support of the Site monitoring and inspection event and routine Site maintenance activities.





5.0 Conclusions and Recommendations

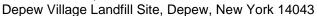
5.1 Conclusions

- Based on groundwater elevations measured in January 2022, groundwater flow in overburden hydrogeologic unit appears to be to the west-southwest. Since vertical control has not been established for the groundwater monitoring wells, this flow direction is estimated. Although this observation is consistent with historical observations, it will need to be confirmed following surveying.
- Lead was detected at concentrations exceeding the applicable SCG in 2 of 7 sediment samples collected in December 2021 (SD-01 and SD-02, both downgradient of the Site) and 1 of 5 groundwater samples collected in January 2022 (MW-01, slightly above the Class GA SCG, also downgradient of the Site, and in close proximity to SD-02).
- Mercury was detected slightly above the respective SCG in 1 of 7 groundwater samples (MW-04) collected in January 2022.
- Site and groundwater use are consistent with the restrictions set forth in the RODs and the SMP. One semi-annual Site inspections and Site inspection report was also completed. The ICs operated as intended during this reporting period.
- The remedy continued to be protective of human health and the environment through this reporting period.

5.2 Recommendations

- Monitoring well MW-06 should be repaired in accordance with NYSDEC protocols. The scope of work should include probing the well to determine if a blockage exists based on the variance between the TRC measurement and the well construction log. If unobstructed, the well riser should be replaced and a new protective well casing should be installed. In addition, a sign post and sign should be installed to prevent future damage by mowers.
- Vertical (and horizontal) control should be established using a land surveyor. The scope of work should
 include measurements of the location and elevations associated with each groundwater monitoring well
 (ground surface, top of casing, and top of protective outer casing). Elevations should also be measured
 at the approximate location of each sediment sampling point (to be marked in the field by TRC). A site
 benchmark should also be established for future reference.
- Inspection frequency should be decreased to annually (15 months), as well as following severe weather events, to coincide with site monitoring. Inspections shall include completion of inspection reports and verification that the ICs and ECs are in-place and effective at the Site.
- The groundwater, sediment, and surface water monitoring frequency, and the PRR frequency, should be decreased to annually (15 months). The next PRR covering the reporting period beginning April 1, 2022, and ending June 30, 2023, would be due in July/August 2023.
- Samples of sediment and surface water should be collected from the seep location in the vicinity of MW-01 and SD-02 to evaluate the need for corrective actions (at the next monitoring event).

PERIODIC REVIEW REPORT, SEPTEMBER 2020 - MARCH 2022





- Groundwater monitoring should include PFAS constituents to evaluate the need for corrective actions relative to PFAS. The recommended sampling locations include MW-04 (downgradient), MW-05 (upgradient), and MW-06 (landfill area).
- Groundwater hydraulic monitoring should continue during subsequent groundwater monitoring events, and groundwater contour maps should be prepared once vertical control is established for the wells.
- An SMP addendum/revision should be prepared to reflect the above changes/modifications if the changes are acceptable to the Department. In addition, the SMP addendum should include details for tracking of climate resiliency metrics going forward.



6.0 Certification of Engineering and Institutional Controls

For each institutional or engineering control identified for the Site, I certify that all the following statements are true:

- The inspections of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program were performed under my direction;
- The institutional and/or engineering controls employed at this Site are unchanged from the date the controls were put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of such control to protect public health and the
 environment;
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for these controls.
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access
 to evaluate the continued maintenance of the controls;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practice; and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Kevin D. Sullivan, P.E., of TRC Engineers, Inc., am certifying as Owner's/Remedial Party's Designated Site Representative for the Site.

Signature

39/28/2022

Date

073712

NYS Professional Engineer No.



Depew Village Landfill Site, Depew, New York 14043

7.0 Future Site Activities

Based on the recommendations in Section 5, the following Site management activities will be completed during the next PRR reporting period (April 2022 to June 2023):

- Surveying and well repairs (targeting Q2 2023)
- Site Inspections Annual/15 months (next scheduled: Q2 2023)
- Groundwater/Surface Water/ Sediment/Biota Annual/15-months (next scheduled: Q2 2023)
- PRR Annual Report (next scheduled: July/August 2023)

Figures

TRC ENGINEERS, INC.

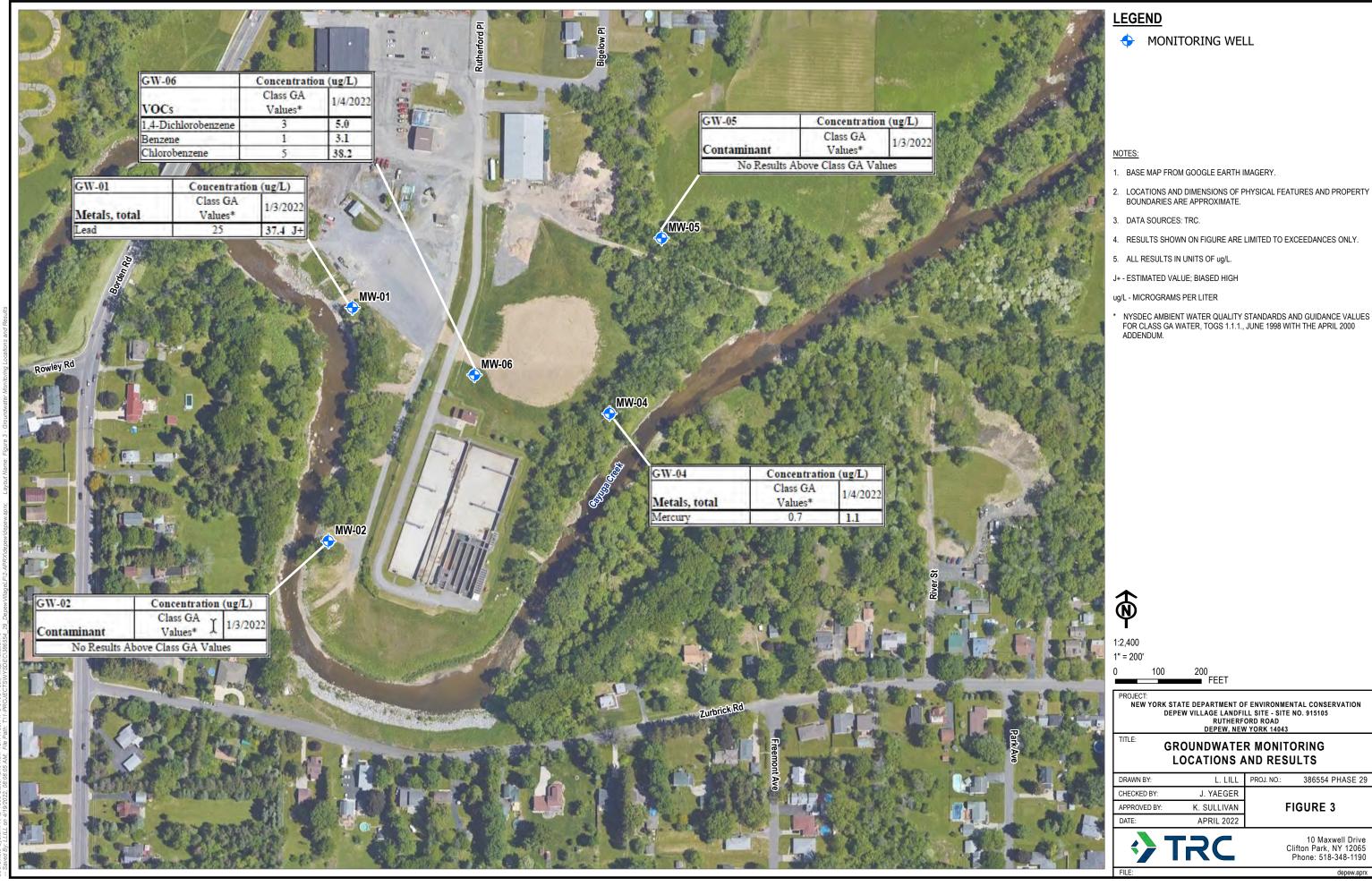
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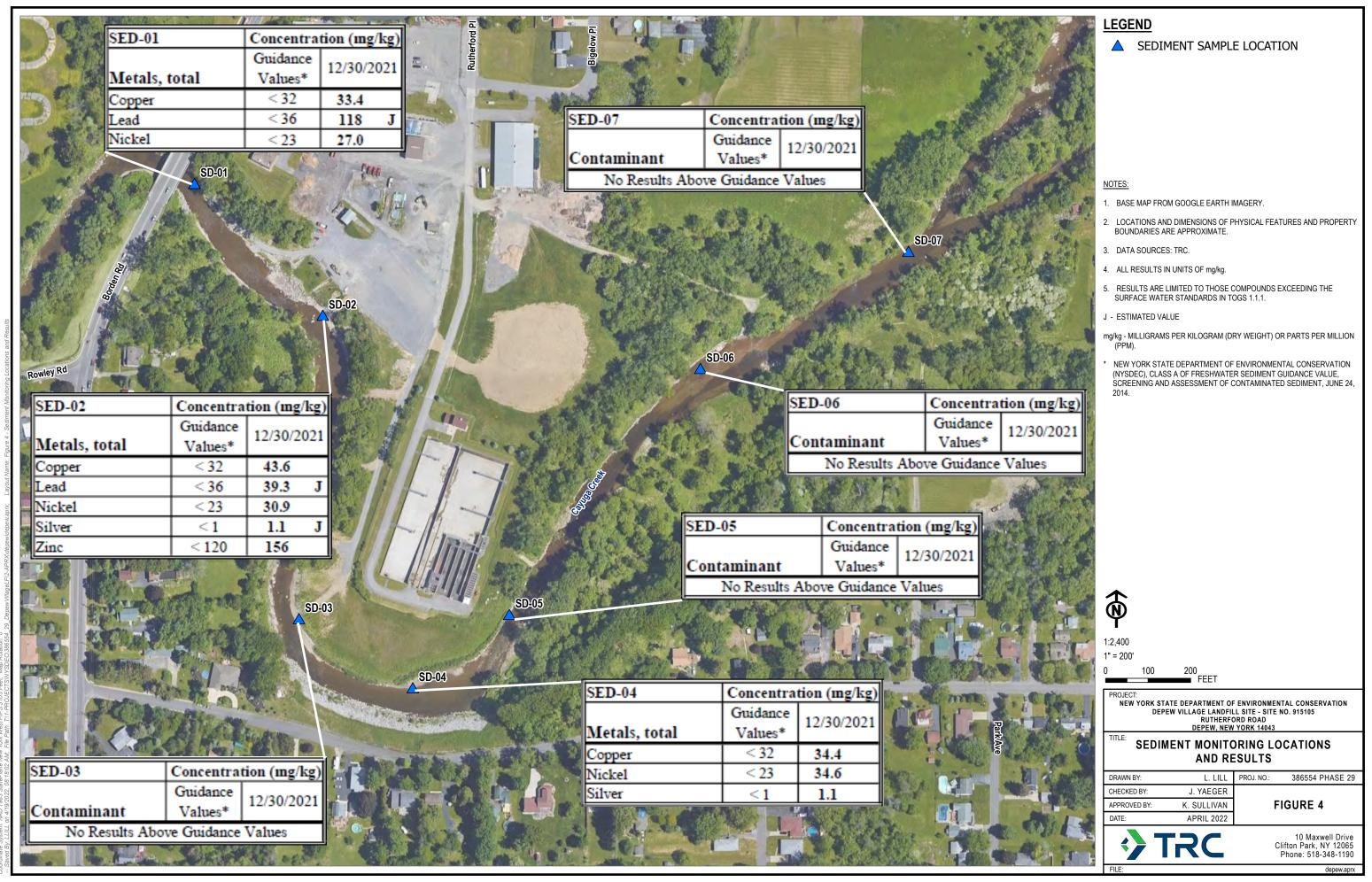




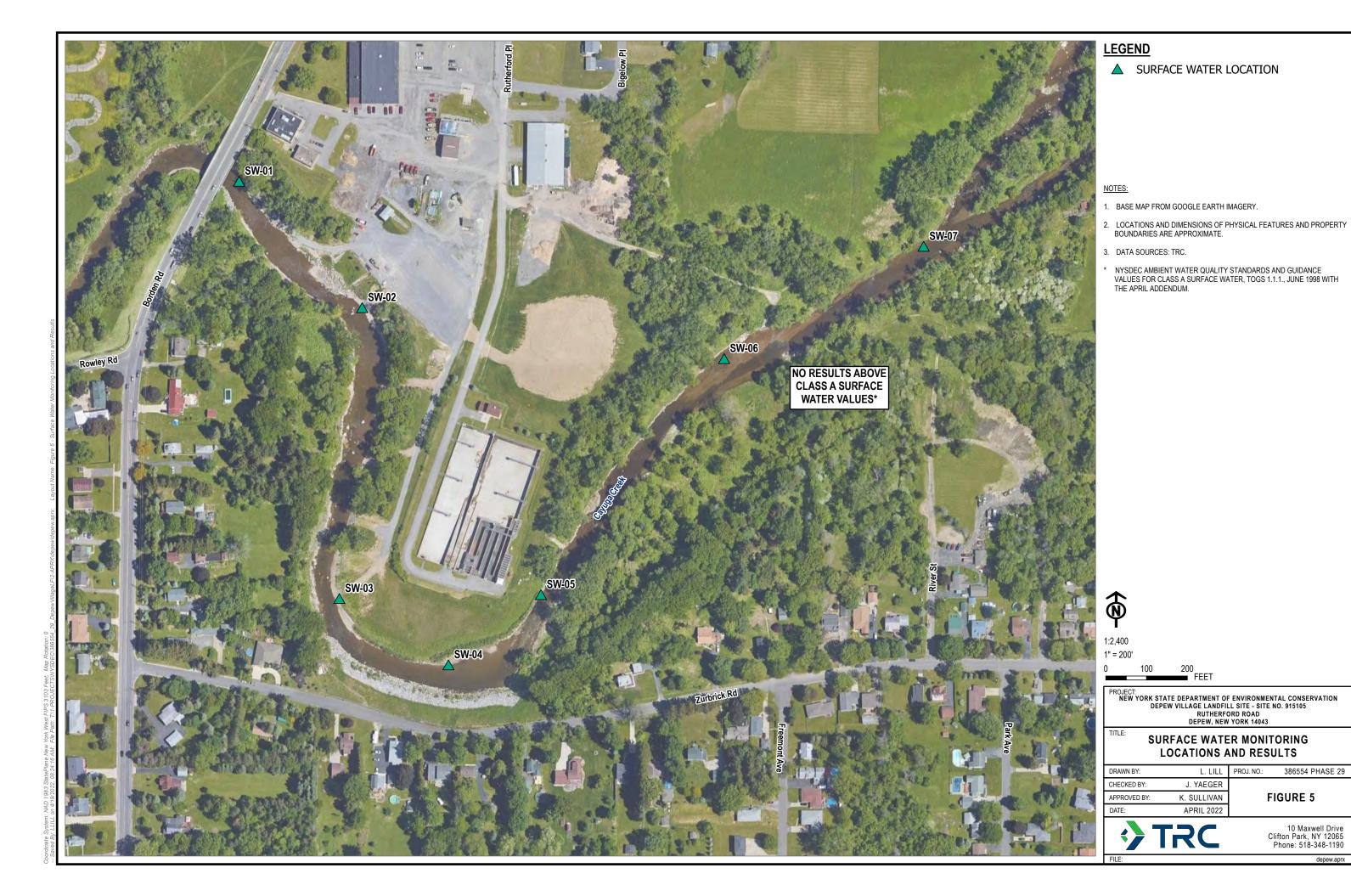
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Tables

TRC ENGINEERS, INC.

SEPTEMBER 2022



TABLE 1

New York State Department of Environmental Conservation SMP B - Depew Village Landfill Depew, New York Summary of VOCs and Metals in Groundwater - January 2022

		San	nple Location:	GW-01	GW-02	GW-04	GW-05	G'	W-06			
		5	Sample Name:	DPW-GW-01			DPW-GW-05	DPW-GW-06	DPW-GW-DUP			
		L	ab Sample ID:	70199831001	70199831002		70199831004	70199831005	70199831006			
			Sample Date: Class GA	1/3/2022	1/3/2022	1/4/2022	1/3/2022	1/4/2022	1/3/2022			
Analysis	Analyte	Unit	Values*						Field Dup			
VOCs	rimiye	Oint	values						Ficia Dup			
vocs	1,1,1-Trichloroethane	ug/L	5	1.0 U								
	1,1,2,2-Tetrachloroethane	ug/L ug/L	5	1.0 U								
	1,1,2-Trichloroethane	ug/L	1	1.0 UJ								
	1,1,2-Trichloro- 1,2,2-trifluoroethane	ug/L	5	1.0 U								
	1,1-Dichloroethane	ug/L	5	1.0 U								
	1,1-Dichloroethene	ug/L	5	1.0 U								
	1,2,3-Trichlorobenzene	ug/L	5	1.0 U								
	1,2,4-Trichlorobenzene	ug/L	5	1.0 U								
	1,2-Dibromo-3-chloropropane	ug/L	0.04	1.0 UJ 1.0 U	1.0 UJ 1.0 U	1.0 UJ 1.0 U	1.0 UJ 1.0 U	1.0 UJ 1.3	1.0 UJ			
	1,2-Dichlorobenzene 1,2-Dichloroethane	ug/L ug/L	0.6	1.0 U 1.0 U	1.0 U 1.0 U	1.0 U	1.0 U	1.0 U	1.2 1.0 U			
	1,2-Dichloropropane	ug/L ug/L	1	1.0 U								
	1,3-Dichlorobenzene	ug/L	3	1.0 U								
	1,4-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	4.5	5.0			
	2-Butanone (MEK)	ug/L	50	5.0 U								
	2-Hexanone	ug/L	50	5.0 U								
	4-Methyl-2-pentanone	ug/L	NC	5.0 U								
<u> </u>	Acetone	ug/L	50	5.0 UJ								
	Benzene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	3.1	2.9			
<u> </u>	Bromochloromethane Bromodichloromethane	ug/L	5 50	1.0 U 1.0 U								
—	Bromodicniorometnane Bromoform	ug/L ug/L	50	1.0 U								
	Bromomethane	ug/L ug/L	5	1.0 UJ								
	Carbon disulfide	ug/L	60	1.0 U								
	Carbon tetrachloride	ug/L	5	1.0 U								
	Chlorobenzene	ug/L	5	1.0 U	1.3	1.0 U	1.0 U	37.3	38.2			
	Chloroethane	ug/L	5	1.0 U								
	Chloroform	ug/L	7	1.0 U								
	Chloromethane	ug/L	5	1.0 UJ								
	Cyclohexane	ug/L	NC 50	1.0 U 1.0 U								
	Dibromochloromethane Dichlorodifluoromethane	ug/L ug/L	50	1.0 U 1.0 U	1.0 U	1.0 U 1.0 U	1.0 U	1.0 U 1.0 U	1.0 U 1.0 U			
	Ethylbenzene	ug/L ug/L	5	1.0 U								
	1,2-Dibromoethane	ug/L ug/L	0.0006	1.0 U								
	Isopropylbenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.8			
	Methyl acetate	ug/L	NC	1.0 U								
	Methyl tert-butyl ether	ug/L	10	1.0 U								
	Methylcyclohexane	ug/L	NC	1.0 U								
	Methylene chloride	ug/L	5	1.0 U								
	Styrene	ug/L	5	1.0 U								
	Tetrachloroethene Toluene	ug/L	5	1.0 UJ 1.0 U								
	Trichloroethene	ug/L ug/L	5	1.0 U								
	Trichlorofluoromethane	ug/L ug/L	5	1.0 UJ								
	Vinyl chloride	ug/L	2	1.0 U								
	Xylenes, total	ug/L	5	3.0 U								
	cis-1,2-Dichloroethene	ug/L	5	1.0 U								
	cis-1,3-Dichloropropene	ug/L	0.4(b)	1.0 UJ								
	m,p-Xylene	ug/L	5(a)	2.0 U								
	o-Xylene	ug/L	5(a)	1.0 U								
-	trans-1,2-Dichloroethene	ug/L	5 0.4(b)	1.0 U 1.0 UJ	1.0 U 1.0 UJ	1.0 U 1.0 UJ	1.0 U	1.0 U 1.0 UJ	1.0 U 1.0 UJ			
Mot-1-	trans-1,3-Dichloropropene	ug/L	0.4(b)	1.0 UJ								
Metals,		nc/r	3	60.0 U								
—	Antimony Arsenic	ug/L ug/L	25	7.4 J	13.7	7.0 J	10.0 U	10.0 U	10.0 U			
	Beryllium	ug/L ug/L	3	5.0 U								
	Cadmium	ug/L ug/L	5	0.38 J	2.5 U							
	Chromium	ug/L	50	5.4 J	10.0 U	2.0 J	1.2 J	1.3 J	1.4 J			
	Copper	ug/L	200	16.2 J	25.0 U							
	Lead	ug/L	25	37.4 J+	5.0 UJ							
	Mercury	ug/L	0.7	0.20 U	0.20 U	1.1	0.20 U	0.20 U	0.20 U			
	Nickel	ug/L	100	21.8 J	11.5 J	22.1 J	11.9 J	32.5 J	32.9 J			
-	Selenium	ug/L	10	10.0 U								
	Silver Thallium	ug/L ug/L	0.5	10.0 UJ 10.0 U								
1												

Notes:

ug/L - micrograms per liter. J - Estimated value.

- J+ Estimated value; biased high.
 NC No standard exists for this analyte.
- U Analyte was not detected at specified quantitation limit.

UJ - Estimated non-detect. Values in bold indicate the analyte was detected. Values shown in bold and shaded type exceed the listed Guideline Value.

- VOCs Volatile Organic Compounds.
- * NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.
- (a) criteria applicable to xylene (total), the sum of the xylene isomers.
 (b) criteria applicable to the sum of the cis and trans isomers.

TABLE 2

New York State Department of Environmental Conservation SMP B - Depew Village Landfill Depew, New York

Summary of Metals in Sediment - December 2021

_		Sample Location:	SED-0	1	SED-0	2	SED-0	3		SEI	D-04		SED-0)5	SED-0	6	SED-0	7	
			Sample Name:	DPW-SED-01		DPW-SE	DPW-SED-02		DPW-SED-03		DPW-SED-04 DPW-SED-0A)- 0A	DPW-SED-05		DPW-SED-06		5 DPW-SED-07	
	Lab Sample ID:		70199829	70199829002		9004	70199829	70199829006		70199829008 701998		012	70199830	0002	70199830004		70199829010		
			Sample Depth:	0-2 in	1	0-2 in	1	0-2 in	l	0-2 in	1	0-2 in		0-2 ir	ı	0-2 in		0-2 in	
			Sample Date:	12/30/20)21	12/30/20)21	12/30/20)21	12/30/20)21	12/30/20	21	12/30/20)21	12/30/20	21	12/30/20)21
Analysis	Analyte	Unit	Guidance Values*										ıp						
Metals,	total																		
	Antimony	mg/kg	NC		R		R		R		R		R		R		R		R
	Arsenic	mg/kg	< 10	5.8		7.6		3.2		7.2		6.5		4.2		3.8		3.7	
	Beryllium	mg/kg	NC	0.46	J	0.51	J	0.16	J	0.62		0.57		0.30	J	0.27	J	0.26	J
	Cadmium	mg/kg	< 1	0.35		0.51		0.053	J	0.39		0.38		0.16	J	0.10	J	0.22	
	Chromium	mg/kg	< 43	16.5	J	20.0	J	6.6	J	19.9	J	18.4	J	12.8	J	11.3	J	11.1	J
	Copper	mg/kg	< 32	33.4		43.6		11.3		34.4		33.5		26.5		17.8		18.9	
	Lead	mg/kg	< 36	118	J	39.3	\mathbf{J}	25.1	J	22.2	J	21.6	J	18.1	J	15.2	J	19.0	J
	Mercury	mg/kg	< 0.2	0.059		0.054	J	0.045	U	0.058	J	0.051		0.066		0.033	J	0.036	J
	Nickel	mg/kg	< 23	27.0		30.9		10.9		34.6		32.6		19.5		16.0		16.2	
	Selenium	mg/kg	NC	1.0	U	1.3	U	0.68	U	1.4	J+	0.89	U	0.91	U	0.67	U	0.75	U
	Silver	mg/kg	< 1	0.97	J	1.1	\mathbf{J}	0.42	J	1.1		1.1		0.69	J	0.60	J	0.53	J
	Thallium	mg/kg	NC	1.0	U	1.3	U	0.68	U	0.97		1.0		0.91	U	0.67	U	0.75	U
	Zinc	mg/kg	< 120	117		156		66.3		120		117		89.0		72.1		80.8	

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

- J Estimated value.
- J+ Estimated value; biased high.
- NC No standard exists for this analyte.
- R Rejected data point.
- U Analyte was not detected at specified quantitation limit.

Values in **bold** indicate the analyte was detected.

Values shown in **bold** and shaded type exceed the listed Guideline Value.

* - New York State Department of Environmental Conservation (NYSDEC), Class A of Freshwater Sediment Guidance Values, Screening and Assessment of Contaminated Sediment, June 24, 2014.

TABLE 3 New York State Department of Environmental Conservation SMP B - Depew Village Landfill Depew, New York Summary of Metals in Surface Water - December 2021

		Sample Location:	SW-01	L	SW-02		SW-03		SW-04				SW-05	SW-00	6	SW-07	٦	
		Sample Name:	DPW-SW-01		DPW-SW-02		DPW-SW-03		DPW-SW-04		DPW-SW-	DPW-SW-0A I		DPW-SW-06		DPW-SW-0)7	
			Lab Sample ID:	70199829	001	70199829	0199829003		70199829005		70199829007)11	70199830001	70199830003		7019982900	
			Sample Date:	12/30/20	21	12/30/20	21	12/30/20)21	12/30/20)21	12/30/202	21	12/30/2021	12/30/20	21	12/30/202	
Analysis	Analyte							Field Du	р									
Metals,	total																	
	Antimony	ug/L	3	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U	60.0 U	60.0	U	60.0	U
	Arsenic	ug/L	50	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0 U	10.0	U	10.0	U
	Beryllium	ug/L	3	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0 U	5.0	U	5.0	U
	Cadmium	ug/L	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5 U	2.5	U	2.5	U
	Chromium	ug/L	50	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0 U	10.0	U	10.0	U
	Copper	ug/L	200	25.0	U	5.2	J	25.0	U	25.0	U	4.6	J	25.0 U	25.0	U	25.0	J
	Lead	ug/L	50	5.0	U	3.3	J	5.0	U	5.0	U	5.0	U	5.0 U	5.0	U	5.0	U
	Mercury	ug/L	0.7	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20 U	0.20	U	0.20	Ū
	Nickel	ug/L	100	5.0	J	10	J	40.0	U	4.6	J	4.9	J	40.0 U	4.6	J	40.0	U
	Selenium	ug/L	10	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0 U	10.0	U	10.0	Ū
	Silver	ug/L	50	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0 U	10.0	U	10.0	U
	Thallium	ug/L	0.5	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0 U	10.0	U	10.0	U
	Zinc	ug/L	2,000	20.0	U	11.3	J	20.0	U	20.0	U	20.0	U	20.0 U	20.0	U	20.0	U

Notes:

ug/L - micrograms per liter.

J - Estimated value.

U - Analyte was not detected at specified quantitation limit.

Values in **bold** indicate the analyte was detected.

* - New York State Department of Environmental Conservation, TOGS 1.1.1. Class A and Type H(WS) Surface Water.

Appendix A





SITE HISTORY

DEPEW VILLAGE LANDFILL SITE (NYSDEC SITE NO. 915105)

<u>Date</u>	<u>Description</u>
1940 to 1961	The landfill/incinerator was opened and operated by the Village of Depew; waste disposal by the Village and possibly local industries included paper, dust, wood, foundry sand, general refuse, and incinerator ash.
1983	A portion of the main landfill area was purchased by Erie County for the construction of a storm water Overflow Retention Facility.
	During the ORF construction, 60,000 cubic yards of fill material was excavated from the landfill and disposed of off-Site in a permitted landfill.
1984	The Village DPW utilizes portions of the Site for materials storage and stockpiling, and in the northern section of the site there are access roads, utility corridors and parking areas associated with both the Village and County facilities.
2002 - 2003	The Village of Depew entered NYSDEC's Voluntary Cleanup Program (VCP) and the site is designated as V00609-9. A site investigation is conducted which focuses on the 1.3 acre area at the tip of the peninsula.
2004	The Village of Depew issues a Site Investigation/Remedial Report confirming the presence of hazardous wastes and identified extended lead contamination to the north, beyond the registry boundary. Based on the expected volume of hazardous waste, the Village of Depew opts out of the VCP and NYSDEC listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York.
August 2007	Remedial investigation and feasibility study of Operable Unit No. 2 at the Depew Village Landfill Site, conducted by Ecology and Environment Engineering, P.C. (EEE).
January 2008	NYSDEC propose remedial action plan for Depew Village Landfill Operable Unit No. 01.
March 2008	NYSDEC issues a record of decision (ROD) for Operable Unit No. 01.
June 2009	EEE conducts a follow up remedial investigation and feasibility study for Operable Unit 2 of the Depew Village Landfill Site.
October 2009	NYSDEC propose remedial action plan for Depew Village Landfill Operable Unit No. 02.
November 2009	NYSDEC has a public meeting covering proposed remedial action plan for Depew Village Landfill Operable Unit No. 02.
December 2009	NYSDEC issues a ROD for Operable Unit No. 02.

1



January 2011 Pre-design investigation plan developed for Zurbrick Road slope soils, Cayuga Creek sediments and the Depew Village Landfill tip.

August 2020 Site management plan (SMP) developed for the Depew Village Landfill Site



CUSTODIAL RECORD/PERTINENT SITE DOCUMENTS DEPEW VILLAGE LANDFILL SITE (NYSDEC SITE NO. 915105)

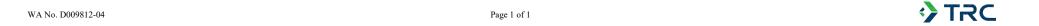
- Ecology and Environment Engineering, P.C. (EEE), Technical Work Plan for the Remedial Investigation and Feasibility Study of Operable Unit 2 at the Depew Village Landfill Site, Depew Village Landfill Site, August 2007
- NYSDEC, Proposed Remedial Action Plan Depew Village Landfill Operable Unit No. 01, Depew Village Landfill Site, January 2008
- NYSDEC, Record of Decision (ROD) Operable Unit No. 01, Depew Village Landfill Site, March 2008
- EEE, Remedial Investigation and Feasibility Study for Operable Unit 2 of the Depew Village Landfill Site, Depew Village Landfill Site, June 2009
- NYSDEC, Proposed Remedial Action Plan Depew Village Landfill Site Operable Unit No. 02, Depew Village Landfill Site, October 2009
- NYSDEC, Proposed Remedial Action Plan Depew Village Landfill Site Operable Unit No. 02; Public Meeting Presentation, Depew Village Landfill Site, November 2009
- NYSDEC, Record of Decision (ROD) Operable Unit No. 02, Depew Village Landfill Site, December 2009
- EEE, Pre-design Investigation Plan for Zurbrick Road Slope Soils, Cayuga Creek Sediments and the Depew Village Landfill Tip, Depew Village Landfill Site, January 2011
- EEE, Final Site Management Plan (SMP) for the Depew Village Landfill Site, Depew Village Landfill Site, August 2020
- EEE, Final Engineering Report (FER) for the Depew Village Landfill Site, Depew Village Landfill Site, August 2020

New York State Department of Environmental Conservation Depew Village Landfill Site - Site No. 915105 Depew, New York Monitoring Well Construction Summary

				Total			Screen Elevation (feet AMSL)			Loca	ation			
	Installation	Well Dia.	Well	Depth		Top	Bottom	Length	Casing	Ground	Scr	een	Northing	
Well ID	Date	(inches)	Material	(feet bgs)	Screened Formation	(feet bgs)	(feet bgs)	(feet)	Top	Surface	Top	Bottom	(feet)	Easting (feet)
MW-01	2/20/2006	2	PVC	14.0	Overburden	4.0	14.0	10.0						
MW-02	2/24/2006	2	PVC	17.0	Overburden	7.0	17.0	10.0						
MW-04	2/21/2006	2	PVC	13.0	Overburden	8.0	13.0	5.0						
MW-05	2/21/2006	2	PVC	8.5	Overburden	3.5	8.5	5.0						
MW-06	2/20/2006	2	PVC	20.0	Overburden	10.0	20.0	10.0						

Notes

AMSL : above mean sea level feet bgs : feet below ground surface PVC : polyvinyl chloride



Appendix B



Inspection Form-Landfills

New York State Department of Environmental Conservation Inactive Hazardous Waste Site

Site Name: Depew Village Landfill				NYSDEC	Site Numbe	r: 915105	NYSDEC PM: King
Site Location: Village of Depew Town of Cheektowaga, NY		7.76%	VANGE BY	Site Class	ification # (circle):	Primary Site Contact:
				1 (3) 2a	3 4	
Site Inspection Date: 12-30-2021		Purpo	se of Insperience	ection:	o marko	of & loca	te SW/SD/GW
Name of Inspector: Josh Vaeger		Title:		Agency/C			Address: 1090 Union Ro #280 West
Phone Number; 716-359-9592		/	na.I	TK	26	oupanite	seneca, NY 14224
	Landfill	Cover	System	AND BEET			
Cover System Onsite?	Yes	>	No	(Proceed to	next Section)		em Observations:
Vegetative Cover Condition	Good		Pa	oor	NA	Pr 20	nt orange/
Evidence of Vegetative Stress	Yes			Vo	NA	Sheer	n liquid seen
Mowing Required	Yes			Vo)	NA NA		101
Presence of Debris	Yes			Vo'	NA NA	alon	ig west side
Evidence of Ponded Water	Yes			Vg)	NA NA	1	Janes La F
Exposed Geotextile	Yes			Vo Vo	NA NA	emble	ann ment co
Evidence of Erosion Settlement Engineered Drainage Swale Condition	Yes	7	-	oor	NA NA	Land	1 JUl peninsula
Engineered Drainage Swale Condition	Good			Vo	NA NA	1 and	
Evidence of Leachate Seepage Evidence of Erosion	Yes	2		vo)	NA NA		
Presence of Woody Growth	Yes			Vo	NA NA	1437 Eur	
Animal Burrows	Yes			VB)	NA	1-1-34	Y- No the Land of
	rmwater Co	llection		/			
Drainage Channel Condition - Cayuga Creek	Good			oor	NA	Observation	ns:
Sedimentation		7-17-3	Λ	Vo	NA	C 1	
Sediment Samples Collected			Λ	Vo	NA	SH	H
Debris			8	(F)	NA	1	
Erosion/Slope Loss	Yes			Võ	NA	1-50,00	
Evidence of Leachate Seepage	(Yes)		N	Vo	NA	17121	
Rip-Rap Condition	Good			oor	NA	10 TE	
Condition of Synthetic Liner	Good	$\overline{}$		oor	NA	603337	
Culvert Condition	Good			oor	(VA)	4-13 30	
Other Drainage Structures/Pipes	Good			oor	NA	101812146	
Condition of Drainage Grates	Good			oor		19212	
Retention Ponds	Good	The second second	A STATE OF THE PARTY OF THE PAR	oor	(NA)		
	Buildir	ig Stru	uctures		The state of the s	Ipuilding Co	ndition Observations:
Are there any building structures at the site?	(Yes)		No	(Proceed to	next section)		
Overall Exterior Condition '	Seod			oor	NA	Dio V	ng interiors
Overall Interior Condition	Good			oor		1 1/25	na interior
Interior Floor	Good			oor		60100	2
Vaulted Areas	Good	The Park Street of the Park Stre		oor	(NA)	The second secon	
	Leachate C	ollecti	ion System	Design Property	The case of the same	Icallection S	System Observations:
Is there a leachate collection system at the site?	Yes		(No)		next section)	Conection	bystem Observations.
Collection Trench Condition	Good			oor	CA CA		
Transfer Flow Pipes	Good			oor			
Condition of Valves	Good			oor	(VA)		
Leachate Pump Condition	Good			oor	(50)		
Holding Tank(s) Condition	Good			oor	6(4)		
Leachate Transfer/Loading Area	Good		Fo	oor	(NA)		
List other applicable components and their overall condition							
Env	vironmental	Monito	oring Locat	ions		ALLE BERTH	PER
Is there a monitoring network at the site?	(Yes)		No	(Proceed to	next section)	Monitoring	Network Observations:
Monitoring Wells/Piezometers	Good		Pe	oor	NA	INVIU	1-06 could
Soil Gas Monitoring Probes	Good			oor	(NA)		221
Landfill Gas Vents	Good			oor	(NA)	119er	viser repairs
List other applicable location types and their overall condition		700	TO STATE OF THE PARTY OF THE PA	1307300			

Inspection Form-Landfills

New York State Department of Environmental Conservation Inactive Hazardous Waste Site

Phone:

Company/Entity

Contact Information

Interviews/Additional Contacts

Name/Title

While the orange/sheen seepage was seen along the While the orange/sheen seepage was seen along the western shore live of the landfull peninsula, no oclor was noticed in the wichty.	
Photograph Log: See attached Photo log Photograph 1	
Photograph 2 Photograph 3	
Photograph 4	
Photograph 5	
Photograph 6	
Photograph 7	
Photograph 8	
Photograph 9	
Photograph 10	
Performance Monitoring Were check samples collected during this visit? Yes No 12/30/2021	
Sample type collected (circle or write in other): Groundwater Sediment Soil Leachate Air Surface Water	
List Parameters/Methods Collected Per Media: GW GW GSW-846 6010 GSwnples FOIl Jan Friends Sed GSamples SW-846 6010 GSamples FOIl Jan Friends FMS/Msd FMS/	
Analytical Laboratory/Location Pace Analytical Cong Island NY/575 Broad Hollow Rd Melville,	NY 1174:
Sample Observations: Typical conditions, visually of factory, as per average operation (and fill area	

NYSDEC Depew Village Landfill Site Photograph Log

Date: January 03-04, 2021



Photo 1: View of the well riser to MW-02.



Photo 2: View of the well riser to MW-05.



Photo 3: View of the well riser to MW-04.



Photo 4: View of the well riser to MW-01.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
386554.0000	Josh Yaeger	1 of 3	NYSDEC	Depew Village Landfill Site Depew, NY
.0000				Depew, NT



NYSDEC Depew Village Landfill Site Photograph Log Date: January 03-04, 2021



Photo 5: View of MW-01 well riser



Photo 6: View of MW-02 well riser.



Photo 7: View of MW-05 well riser.



Photo 8: View of MW-04 well riser

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
386554.0000 .0000	Josh Yaeger	2 of 3	NYSDEC	Depew Village Landfill Site Depew, NY



NYSDEC Depew Village Landfill Site Photograph Log Date: January 03-04, 2021



Photo 9: View of MW-04 and vicinity during sampling setup.



Photo 10: View of MW-04 during sample collection

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
386554.0000 .0000	Josh Yaeger	3 of 3	NYSDEC	Depew Village Landfill Site Depew, NY



DAILY INSPECTION REPORT

Page **1** of **4** Date: 01/03/2022

Report No. 20220103 Depew Village Landfill - NYSDEC Site No. 915105

NEW YORK NYSDEC Contract No. NYSDEC Department of STATE OF OPPORTUNITY Environmental Division of Environmental Remediation Superintendent: N/A Conservation NYSDEC PM: Brianna Scharf Site Location: Depew Village Landfill Site Consultant PM: Kevin Sullivan Weather Conditions Consultant Site Inspectors: PM **General Description Snow Shower** AM Partly Cloudy **Temperature** 37 deg F AM 16 deg F PM Josh Yaeger Wind 3 mph from NNW AM 5 mph from NE PM **Health & Safety** If any box below is checked "Yes", provide explanation under "Health & Safety Comments". Were there any changes to the Health & Safety Plan? *Yes NA No Were there any exceedances of the perimeter air monitoring reported on this date? *Yes No NA *Yes Were there any nuisance issues reported/observed on this date? No NA **Health & Safety Comments** Tripping/falling near the vicinity of moving water and active heavy/large-scale vehicles from the DPW; Tripping/cuts/injury from vicinity brush/vegetation. **Summary of Work Performed** Arrived at site: 1015 Departed Site: 1815 During this Site visit the inspector set out to develop, pump, and sample five monitoring wells. Arrived on-Site at 1015 and set up the pump equipment using a battery pack for MW-01. The groundwater samples were collected at MW-01, and work proceeded to MW-02, MW-05, and MW-04. With the mobile battery pack, MW-04 was pumped until dusk where it quickly ran dry. An attempt to finish the remaining wells will be conducted the following morning. **Equipment/Material Tracking** If any box below is checked "Yes", provide explanation under "Material Tracking Comments". Were there any vehicles which did not display proper D.O.T numbers and placards? *Yes No NA Were there any vehicles which were not tarped? * Yes No NA Were there any vehicles which were not decontaminated prior to exiting the work site? * Yes No NA Personnel and Equipment Individual Company Trade **Total Hours** TRC Companies 8 Josh Yaeger **Environmental Engineer** Contractor/Vendor Used **Equipment Description** Quantity Yes, 2 days Peri-Pump Pine Environmental 12V Rechargeable Battery Pine Environmental Yes, 2 days 1 Yes, 2 days WLM- 100'- Solinst Model 101 P2/M2 Pine Environmental 1 YSI ProDSS Kit Pine Environmental 1 Yes, 2 days Imported/ Daily Exported **Waste Profile** Source or Disposal Daily **Material Description Delivered** Weight off Site Facility (If Applicable) Loads (If Applicable) to Site (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

_						
Equipment/Material Tracking Comm	nents:					
None Not applicable						
None – Not applicable						
Visitors to Site			1			
Name	Re	presenting		usion/CRZ Zone		
			Yes	No		
			Yes	No		
			Yes	No		
			Yes	No		
Site Representatives		T				
Name		Representing				
Brianna Scharf		NYSDEC				
Kevin Sullivan		TRC				
		<u> </u>				
		ļ				
Project Schedule Comments						
Project is on schedule. No significant	schedule issues					
Issues Pending						
MW-04 ran dry quickly; sampled groun	ndwater directly t	the next day.				
,, quien, , ,	10110101					
Interaction with Public, Property Ov						
Sign in at Highway Department office.	No other interaction	ctions noted.		_		

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes □	No ⊠
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes ⊠	No □
If Yes	to <u>any</u> of 1-4 above: If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes □	No 🗆
Comm	<u>ents:</u>		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□



DAILY INSPECTION REPORT

Page 4 of 4

Report No. 20220103 Depew Village Landfill - NYSDEC Site No. 915105 Date: 01/03/2022

Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No ⊠	N/A□
Was turbidity checked at the outfall(s)?	AM □	РМ□	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No ⊠	N/A□
Was the temporary fabric structure closed at the end of the day?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No □	N/A⊠
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
RESILIENCE/GREEN REMEDIATION CHECKLIST			
Is the site supplied with green power and is it properly installed and/or maintained?	Yes □	No □	N/A⊠
Is the site employing 2007 or newer or retrofitted diesel trucks?	Yes □	No □	N/A⊠
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ⊠	No □	N/A□
Is equipment properly maintained and operated by trained personnel?	Yes ⊠	No □	N/A□
Is work being sequenced to avoid double handling?	Yes ⊠	No □	N/A□
Is there an onsite recycling program for CONTRACTOR generated wastes and is it complied with?	Yes □	No □	N/A⊠
Are office trailer heating and cooling systems maintained at efficient set points?	AM □	PM □	N/A⊠
Are products and materials appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes □	No □	N/A⊠
Are resiliency features included in the design or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes □	No □	N/A⊠
Are green remediation elements included in the design or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes □	No □	N/A⊠
Are appropriate metrics documented for inclusion on Form A, Summary of Green Remediation Metrics, by the CONTRACTOR?	Yes □	No □	N/A⊠
Has Contractor been notified of any deficiencies?	Yes □	No □	N/A⊠
<u>Comments:</u>			

Appendix C

TRC ENGINEERS, INC.

SEPTEMBER 2022



			LOW	FLOW GF	ROUNDV	VATER S	AMP	LING RE	CORD		
	PROJECT NAME		Depew Village Landfill			LOCATION			DATE	1/2022	1
	PROJECT NUMB	ER	386554.0000.0000			START TIM			END TIME	3/2022	-
	SAMPLE ID		SAMI	PLE TIME		SITE NAME		R	PAGE	300	-
	<u></u>	DPW-GW-01		1245			915105		1 (OF I	WELL INTEGRITY
WELL DIAN	METER (INCHES)	1	2 4	6	8	OTHER				CAP	YES NO N/A X
TUBING ID	(INCHES)	1/8	1/4 3/8	1/2	5/8	OTHER				CASING LOCKED	X
MEASUREM	MENT POINT (MP)	TOP OF	F RISER (TOR)	TOP OF CAS	SING (TOC)	OTHER				COLLAR	<u> </u>
INITIAL (BMP)	DTW 11	1.35 FT	FINAL DTW (BMP)		FT	PROT. CASI STICKUP (A			IN	TOC/TOR DIFFERENCE	E IN
WELL DO	EPTH 17	7.00 FT	SCREEN LENGTH		FT	PID AMBIENT A	IR		PPM	REFILL TIM SETTING	SEC SEC
WATER COLUM		FT	DRAWDOWN VOLUME		GAL	PID WELL MOUTH			PPM	DISCHARGE TIMER SETT	
CALCUL GAL/VOI	L	GAL	(final DTW - initial D' TOTAL VOL. PURGED		GAL	DRAWDOW TOTAL PUR				PRESSURE TO PUMP	PSI
			(mL per minute X total	RIA (AS LISTED	IN THE QAP	PP)					_
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTAN (mS/cm)	PH (un (+/- 0.1 u		O ₂ (mg/L) 10%)	TURBIDITY (+/- 10% <10	(mv)	INTAKE	COMMENTS
1200	Drawdown BEGIN PUR		(17 J dogrees)	(+/- 3%)	((1)	10,0)	((+/- 10 m	v) DEPTH (ft)	
1210	12.06	250	835	1.767	7.14	1 1	.48	568.24	-15.2		
1220	12.06	250	836	1.603	7.07	7 1	.16	51.58	-60.7		1
1230	12.06	250	8	1.567	7.07	7 1	.05	19.04	-66.7	1	†
1235	12.06	250	8.1	1.572	7.07	7 1	.00	18.19	-67.6		
1240	12.06	250	7.9	1.554	7.07	7 (.99	14.19	-67.6		
1245											
									_		
		NAT CEARIN	TED EVEL D DA DA	ACCEPTED C. (1			ro			TEMP.: nearest de	egree (ex. 10.1 = 10)
	F1	NAL STABILI	ZED FIELD PARA	METERS (to a	ippropriate	significant i	gures[S	F))		pH: nearest tenth (c DO: nearest tenth (TURB: 3 SF max,	(ex. 3.51 = 3.5) nearest tenth (6.19 = 6.2, 101 = 101)
_	DOCUMENTATIO									ORP: 2 SF (44.1 =	
PERI	TYPE OF PUMP STALTIC MERSIBLE		ECON FLUIDS USED LIQUINOX DEIONIZED WATER		ON TUBING ON TUBING	NG/PUMP/BLAI	S. ST	<u>EEKIALS</u> EEL PUMP MAT PUMP MATERIA		WL M PID	EQUIPMENT USED IETER
	DDER		POTABLE WATER NITRIC ACID	TEFL	ON LINED TUB TUBING	BING	GEO	PROBE SCREEN ON BLADDER		WQ M	METER S. METER
WAT	TERA ER		HEXANE METHANOL		TUBING		OTH	ER		PUMP OTHE	,
ANALYTI	ER CAL PARAMETEI		OTHER	OTHE	R		OTH	ER		FILTE	ERS NO. TYPE
	PARAME	ETER	METHOD NUMBER	FIELI FILTER		ESERVATION METHOD		OLUME EQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
							_				<u> </u>
							_				
							_			-	<u> </u>
PURGE O	BSERVATIONS		_			SKETCH	NOTES			_	<u> </u>
PURGE WA	ATER YES	S NO	NUMBER OF GALLO GENERATED	ONS		5112101					
	E METHOD YES	S NO	If yes, purged approximat								
UTILIZED	Tay I	110	to sampling or	mL for this sample	e iocation.	• MS / MS • 1 × 40 m		ke.			
Sampler Sig	gnature. Joshu	raffaege	Print Name:	Joshua J Yaege	er	-1 × 40 m	viai D10.				
Checked By	y:		Date:								

			LOW	FLOW GF	ROUNDW	ATER SAM	PLING RI	ECORD		
	PROJECT NAME		Depew Village Landfill]	LOCATION ID MW-	12	DATE	/2022]
	PROJECT NUME	BER	386554.0000.0000		5	START TIME		END TIME		
	SAMPLE ID		SAMI	PLE TIME		1510 SITE NAME/NUMB	ER	PAGE	605	
		DPW-GW-02		1550	<u> </u>	91510	15	1 0	0F 1	WELL INTEGRITY
	METER (INCHES)	1	24	6	8	OTHER			CAP	YES NO N/A
TUBING ID		1/8	1/4 3/8	1/2	5/8	OTHER			CASING LOCKED	
MEASUREM	MENT POINT (MP)		FRISER (TOR) FINAL DTW	TOP OF CAS		OTHERPROT. CASING			COLLAR TOC/TOR	
(BMP)	8	5.85 FT	(BMP)			STICKUP (AGS)		IN	DIFFERENCE	E IN
WELL DO	ЕРТН 19	9.10 FT	SCREEN LENGTH			PID AMBIENT AIR		PPM	REFILL TIMI SETTING	SEC SEC
WATER COLUM		FT	DRAWDOWN VOLUME		GAL I	PID WELL MOUTH		PPM	DISCHARGE TIMER SETT	
CALCUL GAL/VOI	L	GAL	(final DTW - initial DT TOTAL VOL. PURGED		GAL T	DRAWDOWN/ FOTAL PURGED			PRESSURE TO PUMP	PSI
			(mL per minute X total	RIA (AS LISTED	IN THE QAPP)				
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTAN (mS/cm)	PH (unit: (+/- 0.1 un		(+/- 10% <1	(mv)	INTAKE	COMMENTS
1510	Drawdown BEGIN PUI	RGING		(+/- 3%)	I			(+/- 10 m	v) DEPTH (ft)	
1520	9.9	250	10.4	1.277	7.00	1.04	145.63	-53.6		
1530	9.9	250	10.4	1.252	7.00	0.94	140.85	-62.7		
1540	9.9	250	10.5	1.239	7.00	0.88	146.82	-66.4		
1545	9.9	250	10.6	1.232	6.99	0.86	142.30	-66.2		
1550										
							_			
	F	INAL STABILI	ZED FIELD PARA	METERS (to a	ppropriate si	gnificant figures[SF])		COND.: 3 SF max (pH: nearest tenth (e:	gree (ex. 10.1 = 10) (ex. 3333 = 3330, 0.696 = 0.696) ex. 5.53 = 5.5)
									DO: nearest tenth (e	ex. 3.51 = 3.5) nearest tenth (6.19 = 6.2, 101 = 101)
	DOCUMENTATION TYPE OF PUMP		ECON FLUIDS USED		TUBING	G/PUMP/BLADDER M	ATERIALS			EQUIPMENT USED
SUBM	STALTIC MERSIBLE		LIQUINOX DEIONIZED WATER	TEFL	ON TUBING ON TUBING	PV	STEEL PUMP MA C PUMP MATER	IAL	WL ME PID	
	DDER	🔲	POTABLE WATER NITRIC ACID	HDPE	ON LINED TUBING	TE	OPROBE SCREE	N		METER
OTH		🔲	HEXANE METHANOL OTHER	OTHE		OT	HER HER HER		PUMP OTHER FILTER	R
	CAL PARAMETE	RS	METHOD	FIEL			VOLUME	SAMPLE	QC	SAMPLE BOTTLE ID
	PARAMI	ETER	NUMBER	FILTER			REQUIRED	COLLECTED	COLLECTED	
			-							<u> </u>
										<u> </u>
PURGE O	BSERVATIONS		-		- -	SKETCH/NOTE	5			<u> </u>
PURGE WA		S NO	NUMBER OF GALLO GENERATED	NS						
NO-PURGE UTILIZED	E METHOD YE	S NO	If yes, purged approximat to sampling or	ely 1 standing volun _mL for this sample						
	Joyla	n Lywae								
Sampler Sig	gnature:	000	Print Name:	Joshua J Yaege	er					
Checked By	г		Date:							

			LOW	FLOW GF	ROUNDV	VAT	TER SAMP	LING R	ECO	RD		
	PROJECT NAM	E	Depew Village Landfill			LOC	CATION ID MW-04		DAT			
	PROJECT NUM	BER	386554.0000.0000			STA	RT TIME		END	See Con TIME **		
	SAMPLE ID		SAMI	PLE TIME		SITI	E NAME/NUMBE	R	PAG	E		
		DPW-GW-04		1150			915105			1 OF		WELL INTEGRITY
WELL DIAM	METER (INCHES)	1	2 4	6	8		OTHER				CAP	YES NO N/A
TUBING ID		1/8	1/4 3/8	1/2	5/8		OTHER				CASING LOCKED	$\equiv \equiv \equiv$
	MENT POINT (MI	TOP O	F RISER (TOR)	TOP OF CAS	SING (TOC)		OTHER				COLLAR	
INITIAL (BMP)	DTW	7.00 FT	FINAL DTW (BMP)		FT		OT. CASING CKUP (AGS)			IN	TOC/TOR DIFFERENCE	E IN
WELL D (BMP)	ЕРТН	5.00 FT	SCREEN LENGTH		FT	PID AMI	BIENT AIR		I	PPM	REFILL TIME SETTING	SEC SEC
WATER COLUMI		FT	DRAWDOWN VOLUME		GAL	MO	WELL UTH		1	PPM	DISCHARGE TIMER SETT	
CALCUI GAL/VO		GAL	(final DTW - initial D'TOTAL VOL. PURGED		GAL	DRA	AWDOWN/ FAL PURGED				PRESSURE TO PUMP	PSI
	RAMETERS WIT		(mL per minute X tota BILIZATION CRITE	RIA (AS LISTED	IN THE QAI	PP)		_				
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTAN (mS/cm)	PH (un (+/- 0.1 s		DISS. O ₂ (mg/L) (+/- 10%)	TURBIDIT** (+/- 10% <		(mv)	PUMP INTAKE	COMMENTS
1715	BEGIN PU	RGING	, , ,	(+/- 3%)						(+/- 10 mv)	DEPTH (ft)	
1725	6.90	250	6.9	1.486	6.80	6	5.56	96.53	3	164.8		1/3/2022
1735	6.90	250	3.9	1.487	7.3	1	10.86	93.46	5	100.8		1/3/2022
1745												1/3/2022; Dry
0945	BEGIN PU	RGING										
955	13.85	250	10.6	1.736	6.78	8	2.17	59.64	ı	18.3		1/4/2022
1005												1/4/2022; Dry
	1	TNAL CTABILL	 ZED FIELD PARA	METERS (to a		oi omi	ficant ficuncis	F1)			TEMP.: nearest deg	ree (ex. 10.1 = 10) (ex. 3333 = 3330, 0.696 = 0.696)
	r	IIVAL STABILI	ZED FIELD FARA	WIETEKS (to a	прргоргате	sigili	neant figures(5	F))			pH: nearest tenth (ex DO: nearest tenth (ex TURB: 3 SF max, n	x. 5.53 = 5.5) x. 3.51 = 3.5) tearest tenth (6.19 = 6.2, 101 = 101)
	DOCUMENTATI										ORP: 2 SF (44.1 = 4	
PERI	TYPE OF PUMP STALTIC MERSIBLE		ECON FLUIDS USED LIQUINOX DEIONIZED WATER		ON TUBING ON TUBING	NG/PU		EEL PUMP MA PUMP MATER		L	WL ME	EQUIPMENT USED ETER
	DDER		POTABLE WATER NITRIC ACID	TEFL	ON LINED TUE TUBING	BING	GEO	PROBE SCREE ON BLADDER	N		WQ ME	ETER
WAT	TERA ER		HEXANE METHANOL		TUBING		OTH OTH	ER			PUMP OTHER	
ANALYTI	ER CAL PARAMETE	RS	OTHER	OTHE	ER		OTH	ER			FILTER	RS NO. TYPE
	PARAM	ETER	METHOD NUMBER	FIELI FILTER		ESER' MET		OLUME EQUIRED		MPLE LECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
									_			
PURGE O	BSERVATIONS					S	SKETCH/NOTES					
PURGE WA		ES NO	NUMBER OF GALLO GENERATED	ONS								
NO-PURGI UTILIZED	E METHOD YI	ES NO	If yes, purged approxima to sampling or	tely 1 standing volun _mL for this sample								
	Inch.	in Umen p	ē			1 •	Sampled on 1/4/22					
Sampler Sig	gnature:	on flage	Print Name:	Joshua J Yaege	er							
Checked By	r.		Date:									

			LOW	FLOW GF	ROUNDW	ATER SAM	PLIN	3 RECO	RD		
	PROJECT NAME	;	Depew Village Landfill		Ī	LOCATION ID MW	05	DAT	E 1/3/2	022	l
	PROJECT NUMB	ER	386554.0000.0000		:	START TIME		END	TIME		l
	SAMPLE ID		SAMI	PLE TIME		16 SITE NAME/NUM	BER	PAG			1
		DPW-GW-05		1650] [915	.05		1 OF		WELL INTEGRITY
	METER (INCHES)	1	2 4	6	8	OTHER				CAP	YES NO N/A
TUBING ID		1/8	1/4 3/8	1/2	5/8	OTHER				CASING LOCKED	= $=$ $=$
MEASUREN	IENT POINT (MP)		FRISER (TOR) FINAL DTW	TOP OF CAS		OTHERPROT. CASING				COLLAR TOC/TOR	
(BMP)	3 3	.25 FT	(BMP)			STICKUP (AGS)			IN	DIFFERENCE	IN
WELL DO	EPTH 10	0.40 FT	SCREEN LENGTH			PID AMBIENT AIR			PPM	REFILL TIME SETTING	SEC
WATER COLUM	N	FT	DRAWDOWN VOLUME		GAL	PID WELL MOUTH			PPM	DISCHARGE TIMER SETT	ING SEC
CALCUL GAL/VO		GAL	(final DTW - initial DTOTAL VOL. PURGED		GAL	DRAWDOWN/ FOTAL PURGED				PRESSURE TO PUMP	PSI
	RAMETERS WITH		(mL per minute X total	RIA (AS LISTED	IN THE QAPP)					
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTAN (mS/cm)	PH (unit (+/- 0.1 un			BIDITY (ntu) 0% <10 ntu)	(mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1610	Drawdown BEGIN PUR	GING		(+/- 3%)		<u> </u>	ı		(+/- 10 mV)	БЕРТН (π)	
1620	3.35	250	6.8	0.689	7.04	1.54		13.48	111.1		
1630	3.32	250	6.8	0.687	7.04	1.28		22.81	115.8		
1640	3.3	250	6.8	0.685	7.03	1.12		22.36	120.0		
1645	3.3	250	6.8	0.687	7.03	1.10		24.47	121.3		
1650											
	FI	NAL STABILI	ZED FIELD PARA	METERS (to a	ppropriate si	gnificant figure	[SF])			pH: nearest tenth (ex	ex. 3333 = 3330, 0.696 = 0.696) c. 5.53 = 5.5)
										DO: nearest tenth (e:	x. 3.51 = 3.5) earest tenth (6.19 = 6.2, 101 = 101)
	DOCUMENTATION TYPE OF PUMP		ECON FLUIDS USED		TUBIN	G/PUMP/BLADDER I	1ATERIALS	1			EQUIPMENT USED
SUBM	STALTIC MERSIBLE		LIQUINOX DEIONIZED WATER	TEFL	ON TUBING ON TUBING	P	VC PUMP N		L	WL ME	
BLAI		🗆	POTABLE WATER NITRIC ACID	HDPE	ON LINED TUBIS TUBING	Т	EOPROBE S				METER
OTH		🗆	HEXANE METHANOL OTHER	OTHE			THER THER THER			PUMP OTHER FILTER	
	CAL PARAMETER	RS	METHOD	FIEL		SERVATION	VOLUMI	E SA	AMPLE	QC	SAMPLE BOTTLE ID
	PARAME	ETER	NUMBER	FILTER		METHOD	REQUIRE		LECTED	COLLECTED	NUMBERS
											
PURGE OF	BSERVATIONS	<u> </u>			_ _ _	SKETCH/NOT	ES				
PURGE WA		S NO	NUMBER OF GALLO GENERATED	NS							
NO-PURGE UTILIZED	E METHOD YES	S NO	If yes, purged approximat to sampling or	ely 1 standing volun _mL for this sample							
	Jodes	ra Lynens	2								
Sampler Sig	gnature:	990	Print Name:	Joshua J Yaege	er .						
Checked By			Date:								

Part				LOW	FLOW GF	ROUNDW.	ATER SAM	PLING R	ECORD		
PART		PROJECT NAME		Depew Village Landfill		Ī		06	DATE	1/4/2022	1
NOTICE OF THE PROPERTY OF THE		PROJECT NUMB				s	TART TIME		END TIME	;	-
MANDENNETH CONTINUE		SAMPLE ID		SAMI		S	ITE NAME/NUMI	BER	PAGE		-
NELL REFERENCE (STONE) 1			DPW-GW-06		1550	<u> </u>	9151	05	1	OF 1	WELL INTECDITY
MARKEMENT ON	WELL DIAM	METER (INCHES)	1	2 4	6	8	OTHER			CAP	
Note 1985	TUBING ID	(INCHES)	1/8	1/4 3/8	1/2	5/8	OTHER			CASING	
MANUAL PRIVATE 1.50	MEASUREM	IENT POINT (MP)	TOP OF	FRISER (TOR)	TOP OF CAS	SING (TOC)	OTHER			COLLAR	· <u> </u>
MATERIAL 1906 1907 190		DTW 10	0.00 FT						IN		E IN
COLUMN		ЕРТН 13	3.50 FT						PPM		
NUMBER STATE STA		N .	FT						PPM		
This Process	GAL/VO	L		TOTAL VOL. PURGED		GAL T					PSI
1100 104 258 112 1061 6.53 0.82 10.53)				_
Marie Mari		0.0-0.33 ft		TEMP. (°C)	(mS/cm)	pH (units			Y (ntu) (n	nv) INTAKE	COMMENTS
1120	-			(==g===,	(+/- 3%)		(,		(+/- 1	0 mv) DEPTH (ft)	
1130 10.4 250 11.1 1.094 6.51 0.8 17.74 5.00	1110	10.4	250	11	1.069	6.52	0.92	12.1	2 -3	5.3	
THE FERMAL STABILIZED FIELD PARAMETERS (to appropriate significant figures/SF) FINAL STABILIZED	1120	10.4	250	11.2	1.061	6.51	0.82	16.5	1 -4	4.7	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF)) FRAUTHANT DOCUMENTATION TRUTHMENT DOCUMENTAT	1130	10.4	250	11.1	1.054	6.51	0.8	17.7	4 -5	0.0	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF)) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 333 = 333,0,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 313 = 330,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006) Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 330,006 = 0,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 350,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 350,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 350,006 Bit necess teach (s. 5.5 = 5.5) COND. 3F marks. 31 = 350,006 Bit necess teach (s. 5.5 = 5.5)	1135										
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Appendix D

TRC ENGINEERS, INC.

SEPTEMBER 2022





Data Usability Summary Report

Site: Depew Landfill

Laboratory: Pace Analytical Services – Melville, NY

SDG No.: 70199829 (revised 3/11/22)

Parameters: Metals

Data Reviewer: Jeanette Daniels/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: March 14, 2022

Sample Reviewed and Evaluation Summary

6 Surface Water Samples: DPW-SW-01, DPW-SW-02, DPW-SW-03, DPW-SW-04, DPW-

SW-07, DPW-SW-0A1

6 Sediment Samples: DPW-SED-01, DPW-SED-02, DPW-SED-03, DPW-SED-04,

DPW-SED-07, DPW-SED-0A²

The above-listed surface water and sediment samples were collected on December 30, 2021 and were analyzed for metals by EPA Methods 200.7/245.1 (surface water samples) or SW-846 Methods 6010C/7471B (sediment samples).

The data validation was performed in accordance with *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006),* November 2020, modified for the SW-846 and EPA methodologies utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
 - Initial and Continuing Calibrations
- Interference Check Sample (ICS) Results
 - Blanks
 - Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
 - Laboratory Duplicate Results
- Serial Dilution Results
 - Laboratory Control Sample (LCS) Results
- Field Duplicate Results
 - Moisture Content
 - Sample Results and Reported Quantitation Limits (QLs)
- * All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives with the exception of antimony in all sediment samples due to significantly low recovery in the LCS analysis. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical

¹Field duplicate of DPW-SW-04 ²Field duplicate of DPW-SED-04



error are discussed below.

- Potential uncertainty exists for select metals results that were detected between the
 method detection limit (MDL) and QL. These results were qualified as estimated (J) in the
 associated samples. These results can be used for project objectives as estimated
 values, which may have a minor impact on the data usability.
- The nondetect results for antimony were rejected (R) in all sediment samples due to significantly low (<30%) recovery in the LCS analysis. These results cannot be used for project objectives which has a major impact on the data usability.
- The positive result for lead in sample DPW-SW-02 was qualified as estimated (J) due to high recovery in the low-level standard and detection between the MDL and QL. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.
- The positive results for selenium in samples DPW-SED-01, DPW-SED-02, DPW-SED-07
 and DPW-SED-0A were qualified as nondetect at the QL (U) due to calibration blank
 contamination. These results can be used for project objectives as nondetect results,
 which may have a minor impact on the data usability.
- The positive result for selenium in sample DPW-SED-04 was qualified as estimated with a potential high bias (J+) due to calibration blank contamination. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.
- The positive results for lead were qualified as estimated (J) in all sediment samples due to high recovery in the MS analysis. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.
- The positive results for chromium and lead were qualified as estimated (J) in all sediment samples due to laboratory duplicate variability. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package with one exception. The correlation coefficients were missing for the 6010C/200.7 initial calibration. The laboratory was contacted during validation and provided a revised report to correct this issue. No validation actions were required.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the metals analyses. It should be noted that samples were collected on 12/30/21 but were not shipped to the laboratory until 01/04/21, five days after collection. The samples were stored in coolers and on ice until delivered to the laboratory with no signs of the ice melting observed by the field staff during this time. Since the samples were stored on ice and were within the temperature acceptance range when received by the laboratory, no validation actions were taken on this basis.



Initial and Continuing Calibrations

The initial calibration verification and continuing calibration verification percent recoveries (%Rs) met the method acceptance limits for the metals analyses. All initial calibration coefficients were >0.995.

The table below summarizes the low-level standard %R that did not meet the acceptance limits of 80-120% for metals (except mercury which has acceptance limits of 70-130%), the associated samples, and the validation actions.

Low-Level Standard	Analyte	%R	%R limits	Validation Actions
01/17/2022 @22:29	Lead	129.2	80-120	The positive result for lead in sample DPW-SW-02 was qualified as estimated with a potential high bias (J+) since it was <10x the QL. However, this result was also qualified as estimated due to detection between the MDL and QL. The overall qualification for lead in this sample was J. No qualifications were required for the remaining associated samples since the results for lead were either nondetect or were >10x the QL.
Associated san	nples: All s	samples	in this data se	et.

ICS Results

All spiked analytes recovered within the acceptance limits in the ICSAB sample analyses. There were several analytes detected as positive and/or negative interference in the ICSA analyses. However, the interferents, aluminum, calcium, iron and magnesium, were not reported as target analytes in the samples in this data set. Therefore, ICS interferences were not further evaluated.

Blanks

The laboratory reported instrument blank results to the instrument detection limit (IDL) for metals and mercury; the IDL was lower than the MDL. Instrument calibration results were only evaluated to the sample MDLs during validation since sample results were reported to the MDL. Results between the IDL and MDL are not summarized below.

Metals were not detected in the method blanks and mercury was not detected in the calibration blanks. The following table summarizes the calibration blank contaminants, the concentrations detected, and the resulting validation actions.

Calibration Blank	Analyte	Blank Concentration	Validation Actions						
01/17/2022 @16:55	Selenium	8.6 J μg/L	Qualification was not required for the associated samples since						
01/17/2022 @17:28	Selerilarii	8.7 J μg/L	selenium was not detected.						
Associated sa	Associated samples: DPW-SW-01, DPW-SW-02, DPW-SW-03								
01/17/2022 @17:28	Selenium	8.7 J μg/L	Qualification was not required for the associated samples since						
01/17/2022 @18:00	Selerilarii	8.9 J μg/L	selenium was not detected.						
Associated sa	Associated samples: DPW-SW-04, DPW-SW-07, DPW-SW-0A								
01/17/2022 @18:32	Selenium	8.6 J μg/L	The positive results for selenium in samples DPW-SED-01 and DPW-SED-02 were qualified as nondetect at the QL (U) since the						



Calibration Blank	Analyte	Blank Concentration	Validation Actions				
01/17/2022 @19:04		6.9 J µg/L	results were < the QL. Qualification was not required for sample DPW-SED-03 since selenium was not detected.				
Associated sa	amples: DP	W-SED-01, DPW-S	ED-02, DPW-SED-03				
01/17/2022 @19:04		6.9 J μg/L	The positive results for selenium in sample DPW-SED-07 and DPW-SED-0A were qualified as nondetect at the QL (U) since the				
01/17/2022 @19:37	*		results were < the QL. The positive result for selenium in sample DPW-SED-04 was qualified as estimated with a potential high bias (J+) since the result was greater than the QL but <10x the blank.				
Associated sa	amples: DP	W-SED-04, DPW-S	ED-07, DPW-SED-0A				

MS/MSD Results

MS and post-digestion spike (PDS) analyses were performed as follows:

- MS on sediment sample DPW-SED-03 for all metals; PDS for metals (non-mercury)
- MS and PDS on surface water sample DPW-SW-03 for metals (non-mercury)

The table below summarizes the %Rs that did not meet the acceptance criteria (75-125% for MS, 80-120% for PDS), the associated samples, and the validation actions.

MS/MSD Sample ID	Analyte	MS %R	PDS %R	Validation Action
DPW-	Lead	400	Met Criteria	The positive results for lead were qualified as estimated (J) in all sediment samples.
SED-03	Silver	Met Criteria	74.4	Qualification of the data was not required on this basis since the MS %R for silver was within the acceptance limits; thus, the PDS %R by itself was not used to evaluate sample results.
Associated	samples:	DPW-SED	-01, DPW-S	SED-02, DPW-SED-03, DPW-SED-04, DPW-SED-07, DPW-SED-0A
DPW-SW- 03	Silver	Met Criteria	71.2	Qualification of the data was not required on this basis since the MS %R for silver was within the acceptance limits; thus, the PDS %R by itself was not used to evaluate sample results.
Associa	ted sample	es: DPW-S	W-01, DPW	-SW-02, DPW-SW-03, DPW-SW-04, DPW-SW-07, DPW-SW-0A

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on surface water sample DPW-SW-03 for metals (non-mercury) and sediment sample DPW-SED-03 for all metals. The table below summarizes the relative percent differences (RPDs) that did not meet the QC acceptance criteria of 35% in the laboratory duplicate analysis performed on sediment sample DPW-SED-03 and the validation actions; all criteria were met in the laboratory duplicate analysis performed on surface water sample DPW-SW-03.

Duplicate Sample ID	Analyte	RPD	Validation Action
DPW- SED-03	Chromium	162	Although the positive result for chromium was <5x the QL in one of the two samples, the absolute difference between the two results was >2x the QL. Therefore, the positive results for chromium in all sediment samples were qualified as estimated (J).
	Lead	71	The positive results for lead in all sediment samples were qualified as estimated (J).



Duplicate Sample ID	Analyte	RPD	Validation Action				
Associated	Associated samples: DPW-SED-01, DPW-SED-02, DPW-SED-03, DPW-SED-04, DPW-SED-07, DPW-SED-0A						

Serial Dilution Results

Serial dilution analyses were performed on surface water sample DPW-SW-03 and sediment sample DPW-SED-03 for metals (non-mercury). All percent differences (%Ds) met the acceptance criteria of 20%.

LCS Results

The %Rs for all metals met the laboratory acceptance criteria in the surface water LCS analyses.

The table below summarizes the sediment LCS %R that did not meet the laboratory acceptance criteria, the associated samples, and the validation actions.

LCS ID	Analyte	LCS %R	LCS %R QC Limits	Validation Actions				
1215776 SRM	Antimony	17	30*-96	The nondetect results for antimony were rejected (R) in all sediment samples.				
Associated samples: DPW-SED-01, DPW-SED-02, DPW-SED-03, DPW-SED-04, DPW-SED-07, DPW-SED-0A								

^{*}The lower LCS %R acceptance limit for antimony was set to 10% by the laboratory; however, professional judgment was used and a lower acceptance limit of 30% was used to evaluate the associated sample results.

Field Duplicate Results

Samples DPW-SW-04/DPW-SW-0A and DPW-SED-04/DPW-SED-0A were submitted as the field duplicate pairs with this data set.

The following tables summarize the RPDs and/or absolute differences (AbsD), where applicable, of the detected results. All criteria were met.

Analyte	QLs (µg/L)	DPW-SW-04 (μg/L)	DPW-SW-0A (μg/L)	AbsD (μg/L)	Validation Action			
Copper	25	25 U	4.6 J	20.4	None; all criteria were			
Nickel	40	4.6 J	4.9 J	0.3	met.			

Field duplicate criteria for surface water samples are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5x QL
- AbsD < QL when both results are < 5x QL

Analyte	QLs (mg/kg)	DPW-SED-04 (mg/kg)	DPW-SED-0A (mg/kg)	RPD (%) or AbsD (mg/kg)	Validation Action
Arsenic	0.88/0.89	7.2	6.5	RPD: 10.2	
Beryllium	0.44/0.45	0.62	0.57	AbsD: 0.05	
Cadmium	0.22/0.22	0.39	0.38	AbsD: 0.01	None; all criteria were met.
Chromium	0.88/0.89	19.9	18.4	RPD: 7.8	met.
Copper	2.2/2.2	34.4	33.5	RPD: 2.7	



Analyte	QLs (mg/kg)	DPW-SED-04 (mg/kg)	DPW-SED-0A (mg/kg)	RPD (%) or AbsD (mg/kg)	Validation Action
Lead	0.44/0.45	22.2	21.6	RPD: 2.7	
Nickel	3.5/3.6	34.6	32.6	RPD: 6.0	
Selenium	0.88/0.89	1.4	0.89 U	AbsD: 0.51	
Silver	0.88/0.89	1.1	1.1	AbsD: 0.0	
Thallium	0.88/0.89	0.97	1.0	AbsD: 0.03	
Zinc	1.8/1.8	120	117	RPD: 2.5	
Mercury	0.060/0.046	0.058 J	0.051	AbsD: 0.007	

Field duplicate criteria for sediment samples are as follows:

- RPD ≤ 50 when positive results for both samples are ≥ 5x QL
- AbsD < 2x QL when both results are < 5x QL

Moisture Content

All criteria were met.

Sample Results and Reported Quantitation Limits

Select metal results were reported between the MDL and QL. These results were qualified as estimated (J) in the associated samples by the laboratory. Sample calculations were spotchecked; there were no errors noted.

There were no dilutions performed on any samples in this data set.

The laboratory used approximately 0.3 grams for the digestion of sediment samples for mercury analysis although the method calls for 0.5-0.6 grams. The representativeness of the sediment sample results may be affected due to the smaller sample size. No data were qualified on this basis.





Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-01	Lab ID:	70199829001	Collecte	d: 12/30/2	1 09:20	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:09	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:09	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:09	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:09	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:09	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:09	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:09	7439-92-1	
Nickel	5.0J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:09	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:09	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:09	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:09	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:09	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	od: EP	A 245.1			
	Pace Anal	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:42	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SED-01 Lab ID: 70199829002 Collected: 12/30/21 09:20 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony ND R mg/kg 6.0 01/14/22 11:35 01/17/22 18:46 7440-36-0 1.8 Arsenic 5.8 mg/kg 1.0 0.47 1 Beryllium 0.46J mg/kg 0.50 0.037 1 Cadmium 0.35 mg/kg 0.25 0.028 Chromium 16.5 J mg/kg 1.0 0.40 01/14/22 11:35 01/17/22 18:46 7440-47-3 Copper 33.4 mg/kg 2.5 1.1 Lead 118 J 0.50 0.26 mg/kg 27.0 4.0 0.33 Nickel mg/kg Selenium 0.88J U mg/kg 1.0 0.58 Silver 0.97J mg/kg 1.0 0.12 Thallium ND 1.0 0.92 mg/kg Zinc 117 2.0 1.2 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.059 0.056 0.036 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 51.9 0.10 0.10 01/11/22 15:05

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-02	Lab ID:	70199829003	Collecte	d: 12/30/2	1 09:00	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Analy	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:11	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:11	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:11	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:11	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:11	7440-47-3	
Copper	5.2J	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:11	7440-50-8	
Lead	3.3J	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:11	7439-92-1	
Nickel	10J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:11	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:11	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:11	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:11	7440-28-0	
Zinc	11.3J	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:11	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	od: EP	A 245.1			
	Pace Analy	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:43	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Lab ID: 70199829004 Sample: DPW-SED-02 Collected: 12/30/21 09:00 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony ND R mg/kg 8.0 2.4 Arsenic 7.6 mg/kg 1.3 0.62 1 Beryllium 0.51J mg/kg 0.66 0.049 1 Cadmium 0.51 mg/kg 0.33 0.038 Chromium 20.0 J mg/kg 1.3 0.54 01/14/22 11:35 01/17/22 18:48 7440-47-3 Copper 43.6 mg/kg 3.3 1.4 Lead 39.3 J mg/kg 0.66 0.34 30.9 5.3 0.44 Nickel mg/kg Selenium **1.0J** U mg/kg 1.3 0.78 Silver 1.1J mg/kg 1.3 0.16 Thallium ND 1.3 1.2 mg/kg Zinc 156 2.7 1.6 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.054J 0.082 0.053 01/13/22 09:45 01/13/22 12:34 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 63.1 0.10 0.10 01/11/22 15:05

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-03	Lab ID:	70199829005	Collecte	d: 12/30/2	1 09:40	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:14	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:14	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:14	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:14	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:14	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:14	7439-92-1	
Nickel	ND	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:14	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:14	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:14	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:14	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:14	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	od: EP	A 245.1			
-	Pace Anal	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:45	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SED-03 Lab ID: 70199829006 Collected: 12/30/21 09:40 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony ND R mg/kg 4.1 1.2 1 Arsenic 3.2 mg/kg 0.68 0.32 1 Beryllium 0.16J mg/kg 0.34 0.025 1 0.053J 0.019 Cadmium mg/kg 0.17 Chromium 6.6 J mg/kg 0.68 0.27 01/14/22 11:35 01/17/22 18:51 7440-47-3 D6 Copper 11.3 mg/kg 1.7 0.73 D6 Lead 25.1 J mg/kg 0.34 0.17 D6,M1 10.9 2.7 0.22 Nickel mg/kg Selenium ND mg/kg 0.68 0.40 Silver 0.42J mg/kg 0.68 0.084 Thallium ND 0.68 0.63 mg/kg Zinc 0.84 66.3 1.4 D6 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.045 0.029 01/13/22 09:45 01/13/22 12:35 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 29.9 0.10 0.10 01/11/22 15:05

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-04	Lab ID:	70199829007	Collecte	d: 12/30/2	1 09:50	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:33	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:33	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:33	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:33	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:33	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:33	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:33	7439-92-1	
Nickel	4.6J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:33	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:33	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:33	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:33	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:33	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Anal	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:52	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SED-04 Lab ID: 70199829008 Collected: 12/30/21 09:50 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony ND R mg/kg 5.3 01/14/22 11:35 01/17/22 19:10 7440-36-0 1.6 Arsenic 7.2 mg/kg 0.88 0.41 1 Beryllium 0.62 mg/kg 0.44 0.033 1 Cadmium 0.39 mg/kg 0.22 0.025 Chromium 19.9 mg/kg 0.88 0.36 01/14/22 11:35 01/17/22 19:10 7440-47-3 Copper 34.4 mg/kg 2.2 0.95 Lead 22.2 J mg/kg 0.44 0.23 34.6 3.5 0.29 Nickel mg/kg Selenium **1.4** J+ mg/kg 0.88 0.51 Silver 1.1 mg/kg 0.88 0.11 Thallium 0.97 0.88 0.81 mg/kg Zinc 120 1.8 1.1 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.058J 0.060 0.039 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 45.0 0.10 0.10 01/11/22 15:05

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-07	Lab ID:	70199829009	Collecte	d: 12/30/2	1 10:00	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Analy	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:36	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:36	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:36	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:36	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:36	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:36	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:36	7439-92-1	
Nickel	ND	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:36	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:36	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:36	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:36	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:36	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Analy	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:53	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Collected: 12/30/21 10:00 Received: 01/05/22 11:10 Sample: DPW-SED-07 Lab ID: 70199829010 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony ND R mg/kg 4.5 1.3 1 Arsenic 3.7 mg/kg 0.75 0.35 1 Beryllium 0.26J mg/kg 0.37 0.028 1 Cadmium 0.22 mg/kg 0.19 0.021 Chromium 11.1 J mg/kg 0.75 0.30 01/14/22 11:35 01/17/22 19:13 7440-47-3 Copper 18.9 mg/kg 1.9 0.81 Lead 19.0 J mg/kg 0.37 0.19 3.0 0.25 Nickel 16.2 mg/kg Selenium 0.60J U mg/kg 0.75 0.44 Silver 0.53J mg/kg 0.75 0.093 Thallium ND 0.75 0.69 mg/kg Zinc 0.93 80.8 1.5 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.036J 0.053 0.034 01/13/22 09:45 01/13/22 12:44 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 38.9 0.10 0.10 01/11/22 15:06

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199829

Date: 02/22/2022 08:12 AM

Sample: DPW-SW-0A	Lab ID:	70199829011	Collecte	d: 12/30/2	1 12:00	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	200.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:38	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:38	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:38	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:38	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:38	7440-47-3	
Copper	4.6J	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:38	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:38	7439-92-1	
Nickel	4.9J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:38	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:38	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:38	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:38	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:38	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	245.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Anal	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/12/22 10:52	01/12/22 14:55	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

45.1

Pace Project No.: 70199829

Percent Moisture

Date: 02/22/2022 08:12 AM

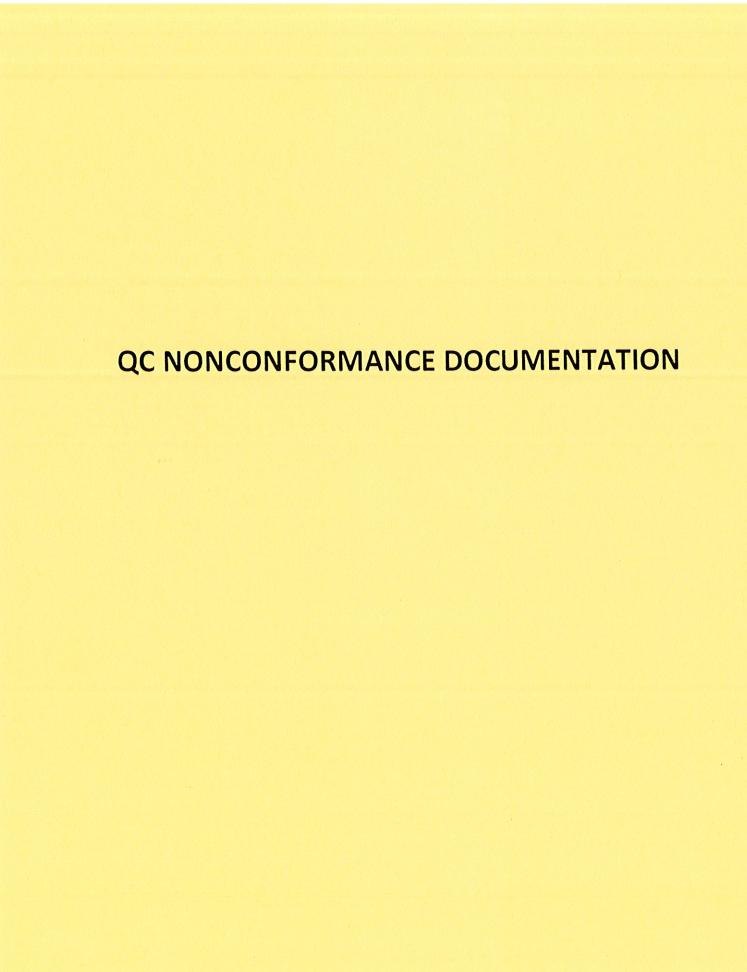
Lab ID: 70199829012 Sample: DPW-SED-0A Collected: 12/30/21 12:00 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville ND R Antimony mg/kg 54 1.6 1 Arsenic 6.5 mg/kg 0.89 0.42 1 Beryllium 0.57 mg/kg 0.45 0.033 1 Cadmium 0.38 mg/kg 0.22 0.025 Chromium 18.4 J mg/kg 0.89 0.36 01/14/22 11:35 01/17/22 19:15 7440-47-3 Copper 33.5 mg/kg 2.2 0.97 Lead 21.6 J mg/kg 0.45 0.23 32.6 3.6 0.30 Nickel mg/kg Selenium 0.65J U mg/kg 0.89 0.52 Silver 1.1 mg/kg 0.89 0.11 Thallium 1.0 0.89 0.82 mg/kg Zinc 117 1.8 1.1 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.051 0.046 0.029 01/13/22 09:45 01/13/22 12:45 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville

0.10

0.10

01/11/22 15:06

REPORT OF LABORATORY ANALYSIS



FORM II INORGANIC-1 CRDL CHECK STANDARD

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract: DEPEW LANDFILL SITE # 915105

CRDL Check Standard Source: 122193 Analysis Date/Time: 01/17/2022 22:29

Concentration Units: ug/L

		CRDL Che	ck Standard	
Analyte	True	Found	%R	Control Limit %R 80-12
Antimony	60	61.7	102.8	70-130
Arsenic	10.0	10.2	102.0	70-130
Beryllium	5.0	5.0	100.6	70-130
Cadmium	2.5	2.6	106.0	70-130
Chromium	10.0	10.1	101.0	70-130
Copper	25	25.8	103.2	70-130
Lead	5.0	6.5	129.2	70-130
Nickel	40	41.6	104.0	70-130
Selenium	10.0	9.4	94.5	70-130
Silver	10.0	8.8	87.8	70-130
Thallium	10.0	8.8	88.5	70-130
Zinc	20	21.0	105.0	70-130

FORM III INORGANIC-1 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Water Instrument ID: 70ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)	Con	Continuing Calibration Blank (ug/L)							
	01/17/2022 / 16:37	С	01/17/2022 16:55	С	01/17/2022 17:28	С	01/17/2022 18:00	С	1215769	С
Antimony	5.1	С	5.1	С	5.1	С	5.1	U	ND	U
Arsenic	3.5	U	4.3	J	-4.2	J	3.7	J	<mdl id<="" td=""><td>U</td></mdl>	U
Beryllium	0.024	U	0.024	U	0.024	U	0.024	U	ND	U
Cadmium	0,098	U	0.098	U	0.098	U	0.098	U	ND	U
Chromium	0\21	U	0.21	U	0.21	U	0.21	U	ND	U
Copper	0/95	U	0.95	U	0.95	U	0.95	U	ND	U
Lead	/1.6	U	1.6	U	1.6	U	1.6	U	ND	U
Nickel	0.92	U	0.92	U	0.92	U	0.92	U	ND	U
Selenium	3.7	U	8.6	J	8.7	J	8.9	J	ND	U
Silver	0.26	U	0.26	J	0.26	U	0.26	U	ND	U
Thallium	2.9	U	2.9	U	2.9	U	2.9	U	ND	U
Zinc	0.43	U	0.43	U	0.43	U	0.43	U	ND	U

FORM III INORGANIC-2 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Solid Instrument ID: 70ICP3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank	Calibration			Continuing Calibration Blank (ug/L)						
		С	01/17/2022 18:32	С	01/17/2022 19:04	С	01/17/2022 19:37	С	1215775	С	
Antimony			5.1	U	5.1	U	5.1	U	ND	U	
Arsenic			3.5	U	3.6	J	4.4	J	<mdl)<="" td=""><td>U</td></mdl>	U	
Beryllium			0.024	U	0.024	U	0.024	U	ND	U	
Cadmium			0.098	U	0.098	U	0.098	U	ND	U	
Chromium			0.21	U	0.21	U	0.21	U	ND	U	
Copper			0.95	U	0.95	U	0.95	U	ND	U	
Lead			1.6	U	1.6	U	1.6	U	ND	U	
Nickel			0.92	U	0.92	U	0.92	U	ND	U	
Selenium			8.6	J	6.9	J	8.1	J	ND	U	
Silver			0.26	J	0.26	U	0.26	U	ND	U	
Thallium			2.9	U	2.9	U	2.9	U	ND	U	
Zinc			0.43	U	0.43	U	0.43	U	ND	U	

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

215778MS				
	21	57	721	119

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract: DEPEW LANDFILL SITE #

Matrix: Solid Basis: Dry Parent Sample ID: DPW-SED-03

Percent Moisture: 29.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	55.0	ND	67.6	81
Arsenic	mg/kg	75-125	36.3	3.2	33.8	98
Beryllium	mg/kg	75-125	32.7	0.16J	33.8	96
Cadmium	mg/kg	75-125	31.7	0.053J	33.8	93
Chromium	mg/kg	75-125	43.3	6.6	33.8	108
Copper	mg/kg	75-125	43.0	11.3	33.8	94
Lead	mg/kg	75-125	160	25.1	33.8	400*
Nickel	mg/kg	75-125	42.7	10.9	33.8	94
Selenium	mg/kg	75-125	32.0	ND	33.8	94
Silver	mg/kg	75-125	13.7	0.42J	17.0	78
Thallium	mg/kg	75-125	17.2	ND	17.0	101
Zinc	mg/kg	75-125	108	66.3	33.8	122

FORM V INORGANIC-1 POST-DIGESTION SPIKE SAMPLE RECOVERY

1216050PDS

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Water Parent Sample ID: DPW-SW-03

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1060	1	20.8U	1000	106.0
Arsenic	ug/L	85-115	1	517	1	5.3U	500	103.4
Beryllium	ug/L	85-115	1	524	1	0.33U	500	104.8
Cadmium	ug/L	85-115	1	512	1	0.31U	500	102.4
Chromium	ug/L	85-115	1	528	1	1.1U	500	105.6
Copper	ug/L	85-115	1	531	1	3.7U	500	106.2
Lead	ug/L	85-115	1	479	1	2.2U	500	95.8
Nickel	ug/L	85-115	1	523	1	4.4U	500	104.6
Selenium	ug/L	85-115	1	493	1	7.1U	500	98.6
Silver	ug/L	85-115	1	178	1	1.2U	250	71.2*
Thallium	ug/L	85-115	1	243	1	5.3U	250	97.3
Zinc	ug/L	85-115	1	521	1	8.6U	500	104.2

FORM V INORGANIC-1 POST-DIGESTION SPIKE SAMPLE RECOVERY

1216082PDS

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Solid Parent Sample ID: DPW-SED-03

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1080	1	18.1U	1000	108.0
Arsenic	ug/L	85-115	1	582	1	47.8	500	106.8
Beryllium	ug/L	85-115	1	545	1	2.3J	500	108.5
Cadmium	ug/L	85-115	1	499	1	0.78J	500	99.6
Chromium	ug/L	85-115	1	635	1	97.3	500	107.5
Copper	ug/L	85-115	1	676	1	166	500	102.0
Lead	ug/L	85-115	1	838	1	370	500	93.6
Nickel	ug/L	85-115	1	692	1	160	500	106.4
Selenium	ug/L	85-115	1	509	1	5.9U	500	101.8
Silver	ug/L	85-115	1	192	1	6.1J	250	74.4*
Thallium	ug/L	85-115	1	263	1	9.2U	250	105.2
Zinc	ug/L	85-115	1	1480	1	976	500	100.8

FORM VI INORGANIC-1 DUPLICATES

Lab Name: Pace Analytical - New York SDG No.: 70199829 Contract: DEPEW LANDFILL SITE #

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 29.9 Basis: Dry DPW-SED-03 SDG 70199829

Analyte	RPD Control Limit	Sample	Duplicate	RPD	
Antimony	20	ND	ND		
Arsenic	20	3.2	3.9	19	
Beryllium	20	0.16J	0.17J		
Cadmium	20	0.053J	0.12J		
Chromium	20	6.6	63.2	162*	
Copper	20	11.3	14.8	27* O	K; <35%
Lead	20	25.1	12.0	71*	
Nickel	20	10.9	12.6	15	
Selenium	20	ND	0.83		
Silver	20	0.42J	0.53J		
Thallium	20	ND	ND		
Zinc	20	66.3	51.5	25*	K; <35%

FORM VII INORGANIC-1 LABORATORY CONTROL SAMPLE

21	57	76	23	R	М

Lab Name: Pace Analytical - New York SDG No. : 70199829 Contract: DEPEW LANDFILL SITE #

Matrix: Solid

Analyte	Units	True	Found	%R	Lin	nits
Antimony	mg/kg	217	37.9	17	30 19	96
Arsenic	mg/kg	157	128	82	73	105
Beryllium	mg/kg	51.2	43.2	84	67	99
Cadmium	mg/kg	125	94.0	75	63	94
Chromium	mg/kg	70.7	58.0	82	69	102
Copper	mg/kg	134	116	86	75	107
Lead	mg/kg	57.2	53.0	93	82	116
Nickel	mg/kg	195	151	77	62	94
Selenium	mg/kg	41.7	34.2	82	66	104
Silver	mg/kg	22.3	18.2	82	73	111
Thallium	mg/kg	81.9	71.8	88	67	102
Zinc	mg/kg	216	176	82	68	104



Data Usability Summary Report

Site: Depew Landfill

Laboratory: Pace Analytical Services – Melville, NY

SDG No.: 70199830 (revised 3/11/22)

Parameters: Metals

Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: March 11, 2022

Sample Reviewed and Evaluation Summary

2 Surface Water Samples: DPW-SW-05, DPW-SW-06
2 Sediment Samples: DPW-SED-05, DPW-SED-06

The above-listed surface water and sediment samples were collected on December 30, 2021 and were analyzed for metals by EPA Methods 200.7/245.1 (surface water samples) or SW-846 Methods 6010C/7471B (sediment samples).

The data validation was performed in accordance with *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006)*, November 2020, modified for the SW-846 and EPA methodologies utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
 - Initial and Continuing Calibrations
- Interference Check Sample (ICS) Results
 - Blanks
 - Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
 - Laboratory Duplicate Results
- Serial Dilution Results
 - Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Moisture Content
 - Sample Results and Reported Quantitation Limits (QLs)
- * All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives with the exception of antimony in sediment samples DPW-SED-05 and DPW-SED-06 due to significantly low recovery in the LCS analysis. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.

Potential uncertainty exists for select metals results that were detected between the method
detection limit (MDL) and QL. These results were qualified as estimated (J) in the associated
samples. These results can be used for project objectives as estimated values, which may
have a minor impact on the data usability.



- The nondetect results for antimony were rejected (R) in sediment samples DPW-SED-05 and DPW-SED-06 due to significantly low (<30%) recovery in the LCS analysis. These results cannot be used for project objectives which has a major impact on the data usability.
- The positive results for selenium in sediment samples DPW-SED-05 and DPW-SED-06
 were qualified as nondetect at the QL (U) due to calibration blank contamination. These
 results can be used for project objectives as nondetect results, which may have a minor
 impact on the data usability.
- The positive results for lead were qualified as estimated (J) in sediment samples DPW-SED-05 and DPW-SED-06 due to high recovery in the MS analysis. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.
- The positive results for chromium and lead were qualified as estimated (J) in sediment samples DPW-SED-05 and DPW-SED-06 due to laboratory duplicate variability. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package with one exception. The correlation coefficients were missing for the 6010C/200.7 initial calibration. The laboratory was contacted during validation and provided a revised report to correct this issue. No validation actions were required.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the metals analyses. It should be noted that samples were collected on 12/30/21 but were not shipped to the laboratory until 01/04/21, five days after collection. The samples were stored on ice, in coolers until delivered to the laboratory with no signs of the ice melting observed by the field staff during this time. Since the samples were stored on ice and were within the temperature acceptance range when received by the laboratory, no validation actions were taken on this basis.

Initial and Continuing Calibrations

The associated initial calibration verification and continuing calibration verification percent recoveries (%Rs) met the method acceptance limits for the metals analyses. All initial calibration coefficients were >0.995.

The table below summarizes the low-level standard %R that did not meet the acceptance limits of 80-120% for metals (except mercury which has acceptance limits of 70-130%), the associated samples, and the validation actions.

Low-Level Standard	Analyte	%R	%R limits	Validation Actions				
01/17/2022 @22:29	Lead 129.2 80-120		80-120	No qualifications were required for the associated samples since the results for lead were either nondetect or were >10x the QL.				
Associated samples: All samples in this data set.								



ICS Results

All spiked analytes recovered within the acceptance limits in the ICSAB sample analyses. There were several analytes detected as positive and/or negative interference in the ICSA analyses. However, the interferents, aluminum, calcium, iron and magnesium, were not reported as target analytes in the samples in this data set. Therefore, ICS interferences were not further evaluated.

Blanks

The laboratory reported instrument blank results to the instrument detection limit (IDL) for metals and mercury; the IDL was lower than the MDL. Instrument calibration results were only evaluated to the MDLs during validation since sample results were reported to the MDL. Results between the IDL and MDL are not summarized below.

Metals were not detected in the method blanks and mercury was not detected in the calibration blanks. The following table summarizes the metals calibration blank contaminants, the concentrations detected, and the resulting validation actions.

Calibration Blank	Analyte	Blank Concentration	Validation Actions		
01/17/2022 @17:28	Selenium	8.7 J μg/L	Qualification was not required for the associated		
01/17/2022 @18:00	Selenium	8.9 J μg/L	samples since selenium was not detected.		
Associated samples:	DPW-SW-05, DP\	W-SW-06			
01/17/2022 @19:04	Colonium	6.9 J μg/L	The positive results for selenium in samples DPW-SED-		
01/17/2022 @19:37	Selenium	8.1 J μg/L	05 and DPW-SED-06 were qualified as nondetect at the QL (U) since the results were < the QL.		
Associated samples: DPW-SED-05, DPW-SED-06					

MS/MSD Results

MS/MSD and post-digestion spike (PDS) analyses were not performed on a sample from this data set. However, MS and/or PDS analyses were performed on project samples from a different SDG (70199829) as summarized below:

- MS on sediment sample DPW-SED-03 for all metals; PDS for metals (non-mercury)
- MS and PDS on surface water sample DPW-SW-03 for metals (non-mercury)

These samples were not validated with this data set but were used to evaluate the sample results in this data set. The table below summarizes the %Rs that did not meet the acceptance criteria (75-125% for MS and 80-120% for PDS), the associated samples, and the validation actions.

MS/MSD Sample ID	Analyte	MS %R	PDS %R	Validation Actions			
DDIM OFF	Lead	400	-	The positive results for lead were qualified as estimated (J) in the associated samples, DPW-SED-05 and DPW-SED-06.			
DPW-SED- 03	Silver	- 74.4		Qualification of the data was not required on this basis since the MS %R for silver was within the acceptance limits; thus, the PDS %R by itself was not used to evaluate sample results.			
Associated s	samples: DPW	/-SED-05,	DPW-SE	D-06			
DPW-SW- 03	Silver	-	71.2	Qualification of the data was not required on this basis since the MS %R for silver was within the acceptance limits; thus, the PDS %R by itself was not used to evaluate sample results.			



MS/MSD Sample ID	Analyte	MS %R	PDS %R	Validation Actions			
Associated s	Associated samples: DPW-SW-05, DPW-SW-06						
-: Met criteria							

Laboratory Duplicate Results

Laboratory duplicate analyses were not performed on any samples in this data set. However, laboratory duplicate analyses were performed on sediment sample DPW-SED-03 for all metals and surface water sample DPW-SW-03 for metals (non-mercury) in SDG 70199829; these samples were not validated with this data set but were used to evaluate the sample results in this data set.

The table below summarizes the relative percent differences (RPDs) that did not meet the QC acceptance criteria of 35% in the laboratory duplicate analysis performed on sediment sample DPW-SED-03 and the validation actions; all criteria were met in the laboratory duplicate analysis performed on surface water sample DPW-SW-03.

Duplicate Sample ID	Analyte	RPD (%)	Validation Actions
DPW-SED- 03	Chromium	162	Although the positive result for chromium was <5x the QL in one of the two samples, the absolute difference between the two results was >2x the QL. Therefore, the positive results for chromium in samples DPW-SED-05 and DPW-SED-06 were qualified as estimated (J).
	Lead	71	The positive lead in samples DPW-SED-05 and DPW-SED-06 were qualified as estimated (J).
Associated s	amples: DPW-S	SED-05, D	PW-SED-06

Serial Dilution Results

Serial dilution analyses were not performed on any samples in this data set. However, serial dilution analyses were performed on sediment sample DPW-SED-03 for metals (non-mercury), and surface water sample DPW-SW-03 for metals (non-mercury) in SDG 70199829; these samples were not validated with this data set but were used to evaluate the sample results in this data set. All percent differences (%Ds) met the QC acceptance criteria of 20%.

LCS Results

The %Rs for all metals met the laboratory acceptance criteria in the surface water LCS analyses.

The table below summarizes the sediment LCS %R that did not meet the laboratory acceptance criteria, the associated samples, and the validation actions.

LCS ID	Analyte	LCS %R	LCS %R QC Limits	Validation Actions
1215776 SRM	Antimony	17	30*-96	The nondetect results for antimony were rejected (R) in sediment samples DPW-SED-05 and DPW-SED-06.

Associated samples: DPW-SED-05, DPW-SED-06

^{*}The lower LCS %R acceptance limit for antimony was set to 10% by the laboratory; however, professional judgment was used and a lower acceptance limit of 30% was used to evaluate the associated sample results.



Field Duplicate Results

No field duplicate pairs were submitted with the samples in this data set. However, field duplicates were collected and submitted with project samples in SDG 70199829: DPW-SW-04/DPW-SW-0A and DPW-SED-04/DPW-SED-0A; these samples were not validated with this data set but were used to evaluate the sample results in this data set.

The following tables summarize the RPDs and/or absolute differences (AbsD), where applicable, of the detected results. All criteria were met.

Analyte	QLs (µg/L)	DPW-SW-04 (μg/L)	DPW-SW-0A (μg/L)	AbsD (μg/L)	Validation Action
Copper	25	25 U	4.6 J	20.4	None; all criteria were
Nickel	40	4.6 J	4.9 J	0.3	met.

Field duplicate criteria for surface water samples are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5x QL
- AbsD < QL when both results are < 5x QL

Analyte	QLs (mg/kg)	DPW-SED-04 (mg/kg)	DPW-SED-0A (mg/kg)	RPD (%) or AbsD (mg/kg)	Validation Action
Arsenic	0.88/0.89	7.2	6.5	RPD: 10.2	
Beryllium	0.44/0.45	0.62	0.57	AbsD: 0.05	
Cadmium	0.22/0.22	0.39	0.38	AbsD: 0.01	
Chromium	0.88/0.89	19.9	18.4	RPD: 7.8	
Copper	Copper 2.2/2.2	34.4	33.5	RPD: 2.7	
Lead	0.44/0.45	22.2	21.6	RPD: 2.7	None; all criteria were
Nickel	3.5/3.6	34.6	32.6	RPD: 6.0	met.
Selenium	0.88/0.89	1.4	0.89 U	AbsD: 0.51	
Silver	0.88/0.89	1.1	1.1	AbsD: 0.0	
Thallium	0.88/0.89	0.97	1.0	AbsD: 0.03	
Zinc	1.8/1.8	120	117	RPD: 2.5	
Mercury	0.060/0.046	0.058 J	0.051	AbsD: 0.007	

Field duplicate criteria for sediment samples are as follows:

- RPD ≤ 50 when positive results for both samples are ≥ 5x QL
- AbsD < 2x QL when both results are < 5x QL

Moisture Content

All criteria were met.

Sample Results and Reported Quantitation Limits

Select metal results were reported between the MDL and QL. These results were qualified as estimated (J) in the associated samples by the laboratory. Sample calculations were spot-checked; there were no errors noted.



There were no dilutions performed on any samples in this data set.

The laboratory used approximately 0.3 grams for the digestion of sediment samples for mercury analysis although the method calls for 0.5-0.6 grams. The representativeness of the sediment sample results may be affected due to the smaller sample size. No data were qualified on this basis.

QUALIFIED FORM 1s



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199830

Date: 02/22/2022 08:17 AM

Sample: DPW-SW-05	Lab ID:	70199830001	Collecte	d: 12/30/2	1 09:55	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	200.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:41	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:41	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:41	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:41	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:41	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:41	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:41	7439-92-1	
Nickel	ND	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:41	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:41	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:41	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:41	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:41	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	.45.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Analy	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:38	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199830

Date: 02/22/2022 08:17 AM

Lab ID: 70199830002 Sample: DPW-SED-05 Collected: 12/30/21 09:55 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony R -----ND mg/kg 5.5 -1-6-01/14/22-11:35 -- 01/17/22-19:18 -- 7440-36-0 Arsenic 4.2 mg/kg 0.91 0.43 1 0.034 Beryllium 0.30J mg/kg 0.46 1 Cadmium 0.16J mg/kg 0.23 0.026 Chromium 12.8 J mg/kg 0.91 0.37 01/14/22 11:35 01/17/22 19:18 7440-47-3 Copper 26.5 mg/kg 2.3 0.99 Lead 18.1 J mg/kg 0.46 0.23 19.5 3.7 0.30 Nickel mg/kg Selenium ND/0.91 U -0.89Jmg/kg 0.91 0.53 Silver 0.69J mg/kg 0.91 0.11 Thallium ND 0.91 0.84 mg/kg 1.8 Zinc 89.0 1.1 mg/kg Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.066 0.046 0.030 01/13/22 09:45 01/13/22 12:47 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 46.3 0.10 0.10 01/11/22 15:06

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199830

Date: 02/22/2022 08:17 AM

Sample: DPW-SW-06	Lab ID:	70199830003	Collecte	d: 12/30/2	1 10:10	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical	Method: EPA 2	200.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Anal	ytical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:44	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:44	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:44	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:44	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:44	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:44	7440-50-8	
Lead	ND	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:44	7439-92-1	
Nickel	4.6J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:44	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:44	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:44	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:44	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:44	7440-66-6	
245.1 Mercury	Analytical	Method: EPA 2	45.1 Prepa	aration Meth	od: EP	A 245.1			
•	Pace Anal	ytical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:40	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199830

Date: 02/22/2022 08:17 AM

Lab ID: 70199830004 Sample: DPW-SED-06 Collected: 12/30/21 10:10 Received: 01/05/22 11:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **6010 MET ICP** Analytical Method: EPA 6010C Preparation Method: EPA 3050B Pace Analytical Services - Melville Antimony R ----ND-4-0 --1.2---01/14/22 11:35 -- 01/17/22 19:21 -- 7440-36-0 mg/kg Arsenic 3.8 mg/kg 0.67 0.32 1 0.025 Beryllium 0.27J mg/kg 0.34 1 0.019 Cadmium 0.10J mg/kg 0.17 Chromium 11.3 J mg/kg 0.67 0.27 01/14/22 11:35 01/17/22 19:21 7440-47-3 Copper 17.8 mg/kg 1.7 0.73 Lead 15.2 J mg/kg 0.34 0.17 2.7 0.22 Nickel 16.0 mg/kg Selenium ND/0.67 U -- 0.66Jmg/kg 0.67 0.39 Silver 0.60J mg/kg 0.67 0.084 Thallium ND 0.67 0.62 mg/kg 72.1 0.84 Zinc mg/kg 1.3 Analytical Method: EPA 7471B Preparation Method: EPA 7471B 7471 Mercury Pace Analytical Services - Melville 0.033J 0.042 0.027 01/13/22 09:45 01/13/22 12:48 7439-97-6 Mercury mg/kg **Percent Moisture** Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville Percent Moisture 32.5 0.10 0.10 01/11/22 15:06

REPORT OF LABORATORY ANALYSIS

QC NONCONFORMANCE DOCUMENTATION

FORM II INORGANIC-1 CRDL CHECK STANDARD

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE # 915105

CRDL Check Standard Source: 122193 Analysis Date/Time: 01/17/2022 22:29

Concentration Units: ug/L

		CRDL Check Standard							
Analyte	True	Found	%R	Control Limit %R					
Antimony	60	61.7	102.8	70-130 80-12					
Arsenic	10.0	10.2	102.0	70-130					
Beryllium	5.0	5.0	100.6	70-130					
Cadmium	2.5	2.6	106.0	70-130					
Chromium	10.0	10.1	101.0	70-130					
Copper	25	25.8	103.2	70-130					
Lead	5.0	6.5	129.2	70-130					
Nickel	40	41.6	104.0	70- 30					
Selenium	10.0	9.4	94.5	70-130					
Silver	10.0	8.8	87.8	70-130					
Thallium	10.0	8.8	88.5	70-130					
Zinc	20	21.0	105.0	70-130					

FORM III INORGANIC-1 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Water Instrument ID: 70ICP3

Method Blank Concentration Units: ug/L

Analyte		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						
	01/17/2022 16:37	С	01/17/2022 16:55	/c	01/17/2022 17:28	С	01/17/2022 18:00	С	1215769	С
Antimony	5.1	U	5.1	U	5.1	U	5.1	U	ND	U
Arsenic	3.5	U	4.3	J	-4.2	J	3.7	J	<mdl id<="" td=""><td>U</td></mdl>	U
Beryllium	0.024	U	0.024	U	0.024	U	0.024	U	ND	U
Cadmium	0.098	U	0.098	U	0.098	U	0.098	U	ND	U
Chromium	0.21	U	0.2	U	0.21	U	0.21	U	ND	U
Copper	0.95	U	0.95	U	0.95	U	0.95	U	ND	U
Lead	1.6	U	1,6	U	1.6	U	1.6	U	ND	U
Nickel	0.92	U	0/92	U	0.92	U	0.92	U	ND	U
Selenium	3.7	U	8.6	J	8.7	J	8.9	J	ND	U
Silver	0.26	U	0.26	J	0.26	U	0.26	U	ND	U
Thallium	2.9	U	2.9	γ	2.9	U	2.9	U	ND	U
Zinc	0.43	U	0.43	Ŋ	0.43	U	0.43	U	ND	U

FORM III INORGANIC-2 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Solid Instrument ID: 70ICP3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank	Cor	Continuing Calibration Blank (ug/L)						
	С	01/17/2022 18:32	/c	01/17/2022 19:04	С	01/17/2022 19:37	С	1215775	С
Antimony		5.1	U	5.1	U	5.1	U	ND	U
Arsenic		3.5	U	3.6	J	4.4	J	<mdl id<="" td=""><td>U</td></mdl>	U
Beryllium		0.024	U	0.024	U	0.024	U	ND	U
Cadmium		0.098	U	0.098	U	0.098	U	ND	U
Chromium		0.21/	U	0.21	U	0.21	U	ND	U
Copper		0.95	U	0.95	U	0.95	U	ND	U
Lead		1.6	U	1.6	U	1.6	U	ND	U
Nickel		0,92	U	0.92	U	0.92	U	ND	U
Selenium		β .6	J	6.9	J	8.1	J	ND	U
Silver		0.26	J	0.26	U	0.26	U	ND	U
Thallium		2.9	h	2.9	U	2.9	U	ND	U
Zinc		0.43	Ú	0.43	U	0.43	U	ND	U

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

21	57	70	N A	C
	:)/	70	IVI	. 7

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE #

Matrix: Solid Basis: Dry Parent Sample ID: 70199829006 DPW-SED-03

Percent Moisture: 29.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	55.0	ND	67.6	81
Arsenic	mg/kg	75-125	36.3	3.2	33.8	98
Beryllium	mg/kg	75-125	32.7	0.16J	33.8	96
Cadmium	mg/kg	75-125	31.7	0.053J	33.8	93
Chromium	mg/kg	75-125	43.3	6.6	33.8	108
Copper	mg/kg	75-125	43.0	11.3	33.8	94
Lead	mg/kg	75-125	160	25.1	33.8	400*
Nickel	mg/kg	75-125	42.7	10.9	33.8	94
Selenium	mg/kg	75-125	32.0	ND	33.8	94
Silver	mg/kg	75-125	13.7	0.42J	17.0	78
Thallium	mg/kg	75-125	17.2	ND	17.0	101
Zinc	mg/kg	75-125	108	66.3	33.8	122

FORM V INORGANIC-1 POST-DIGESTION SPIKE SAMPLE RECOVERY

1216050PDS

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Water Parent Sample ID: 70199829005 PPW-SW-03

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1060	1	20.8U	1000	106.0
Arsenic	ug/L	85-115	1	517	1	5.3U	500	103.4
Beryllium	ug/L	85-115	1	524	1	0.33U	500	104.8
Cadmium	ug/L	85-115	1	512	1	0.31U	500	102.4
Chromium	ug/L	85-115	1	528	1	1.1U	500	105.6
Copper	ug/L	85-115	1	531	1	3.7U	500	106.2
Lead	ug/L	85-115	1	479	1	2.2U	500	95.8
Nickel	ug/L	85-115	1	523	1	4.4U	500	104.6
Selenium	ug/L	85-115	1	493	1	7.1U	500	98.6
Silver	ug/L	85-115	1	178	1	1.2U	250	71.2*
Thallium	ug/L	85-115	1	243	1	5.3U	250	97.3
Zinc	ug/L	85-115	1	521	1	8.6U	500	104.2

FORM V INORGANIC-1 POST-DIGESTION SPIKE SAMPLE RECOVERY

1216082PDS

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Solid Parent Sample ID: 70199829006 DPW-SED-03

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1080	1	18.1U	1000	108.0
Arsenic	ug/L	85-115	1	582	1	47.8	500	106.8
Beryllium	ug/L	85-115	1	545	1	2.3J	500	108.5
Cadmium	ug/L	85-115	1	499	1	0.78J	500	99.6
Chromium	ug/L	85-115	1	635	1	97.3	500	107.5
Copper	ug/L	85-115	1	676	1	166	500	102.0
Lead	ug/L	85-115	1	838	1	370	500	93.6
Nickel	ug/L	85-115	1	692	1	160	500	106.4
Selenium	ug/L	85-115	1	509	1	5.9U	500	101.8
Silver	ug/L	85-115	1	192	1	6.1J	250	74.4*
Thallium	ug/L	85-115	1	263	1	9.2U	250	105.2
Zinc	ug/L	85-115	1	1480	1	976	500	100.8

FORM VI INORGANIC-1 DUPLICATES

1215777DUP

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE #

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 29.9 Basis: Dry DPW-SED-03 SDG 70199829

Analyte	RPD Control Limit	Sample	Duplicate	RPD	
Antimony	20	ND	ND		
Arsenic	20	3.2	3.9	19	
Beryllium	20	0.16J	0.17J		
Cadmium	20	0.053J	0.12J		
Chromium	20	6.6	63.2	162*	
Copper	20	11.3	14.8	27* OI	< ; <35%
Lead	20	25.1	12.0	71*	
Nickel	20	10.9	12.6	15	
Selenium	20	ND	0.83		
Silver	20	0.42J	0.53J		
Thallium	20	ND	ND		
Zinc	20	66.3	51.5	25* O	K; <35%

FORM VII INORGANIC-1 LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70199830 Contract: DEPEW LANDFILL SITE #

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	217	37.9	17	30 19	96
Arsenic	mg/kg	157	128	82	73	105
Beryllium	mg/kg	51.2	43.2	84	67	99
Cadmium	mg/kg	125	94.0	75	63	94
Chromium	mg/kg	70.7	58.0	82	69	102
Copper	mg/kg	134	116	86	75	107
Lead	mg/kg	57.2	53.0	93	82	116
Nickel	mg/kg	195	151	77	62	94
Selenium	mg/kg	41.7	34.2	82	66	104
Silver	mg/kg	22.3	18.2	82	73	111
Thallium	mg/kg	81.9	71.8	88	67	102
Zinc	mg/kg	216	176	82	68	104



Data Usability Summary Report

Site: Depew Landfill

Laboratory: Pace Analytical Services – Melville, NY

SDG No.: 70199831

Parameters: Volatile Organic Compounds (VOCs)

Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: March 23, 2022

Samples Reviewed and Evaluation Summary

6 Groundwater Samples: DPW-GW-01, DPW-GW-02, DPW-GW-04, DPW-GW-05,

DPW-GW-06, DPW-GW-DUPE*

*Field duplicate of DPW-GW-06

1 Trip Blank Sample: TRIP BLANK

The above-listed groundwater and trip blank samples were collected on January 3 and 4, 2022 and were analyzed for VOCs by SW-846 Method 8260C. The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005)*, November 2020, modified for the SW-846 methodology utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
 - Initial and Continuing Calibrations
- * Blanks
- Surrogate Recoveries
 - Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- NA Laboratory Duplicate Results
 - Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Internal Standard Performance
- Sample Results and Reported Quantitation Limits (QLs)
- * Target Compound Identification
- * All criteria were met.

NA A laboratory duplicate analysis was not performed on a sample in this data set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.



- The nondetect results for select VOCs in all samples were qualified as estimated (UJ) due to continuing calibration nonconformances. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.
- The nondetect results for cis-1,3-dichloropropene and trans-1,3-dichloropropene were qualified as estimated (UJ) with a potential low bias in sample DPW-GW-01 due to low MS recoveries. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.
- The nondetect results for 1,1,2-trichloroethane, cis-1,3-dichloropropene, and trans-1,3-dichloropropene were qualified as estimated (UJ) with a potential low bias in all samples due to low LCS recoveries. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package with the following notes/exceptions.

- The trip blank sample was submitted to and analyzed by the laboratory but was not listed on the chain-of-custody (COC).
- The Sample Conditions fields on the COC were not completed by the laboratory. The information provided on the Sample Condition Upon Receipt form was evaluated instead.

No validation actions were required on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All relative response factors (RRFs), correlation coefficients, and percent relative standard deviations were within the acceptance criteria in the initial calibration associated with the samples in this data set.

Initial calibration verification (ICV) standard results were not reviewed or summarized in this report since the ICV did not immediately precede any sample analyses.

The RRFs were within the acceptance criteria in the continuing claibration (CC) standard associated with the samples in this data set. The following table summarizes the percent differences (%Ds) that did not meet the method acceptance criteria in the CC standard associated with the samples in this data set and the validation actions.



Instrument/ CC Date	Compound	%D	Validation Actions
	Acetone	64.4585	
	Bromomethane	-39.1435	
	Chloromethane	-24.2968	
70MSV5/	1,2-Dibromo-3-chloropropane	-24.9554	The nondetect results for these VOCs were
01/06/2022	cis-1,3-Dichloropropene	-25.3551	qualified as estimated (UJ) in the associated samples.
	trans-1,3-Dichloropropene	-30.2322	- Cap. Co.
	Tetrachloroethene	-28.7227	
	Trichlorofluoromethane	36.8566	
Associated sam	ples: All samples in this data set	•	

Blanks

Target compounds were not detected in the laboratory method blank or trip blank.

Surrogate Recoveries

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample DPW-GW-01. The following table summarizes the %Rs and relative percent differences (RPDs) that did not meet the laboratory acceptance criteria and the validation actions.

MS/MSD Parent Sample ID	Compound	MS/ MSD %Rs	RPD (%)	MS/MSD %R Limits	RPD Limit (%)	Validation Actions
	Carbon tetrachloride	-/-	21	-	20	No qualification was required since carbon tetrachloride and trichlorofluoromethane
	Trichlorofluoro- methane	144/153	ı	59-129	-	were not detected in sample DPW-GW-01.
DPW-GW-01	cis-1,3- Dichloropropene	65/-	1	67-130	-	The nondetect results for cis-1,3-dichloropropene and trans-1,3-
	trans-1,3- Dichloropropene	60/-	-	61-130	-	dichloropropene were qualified as estimated (UJ) with a potential low bias in sample DPW-GW-01.
-: Met criteria			•			

Laboratory Duplicate Results

A laboratory duplicate analysis was not performed on a sample in this data set.

LCS Results

An LCS was analyzed prior to samples. The following table summarizes the %Rs that did not meet the laboratory acceptance criteria and the validation actions.



LCS ID	Compound	LCS %R	LCS %R Limits	Validation Actions
	1,1,2-Trichloroethane	80	81-119	The nondetect results for 1,1,2-trichloroethane,
1211183	cis-1,3-Dichloropropene	72	78-131 cis-1,3-dichloropropene, and trans-1,3-dichloropropene were qualified as estimate with a potential low bias in the associated	
	trans-1,3-Dichloropropene	69	73-135	samples.
Associated	samples: All samples in this	data set		

Field Duplicate Results

Samples DPW-GW-06 and DPW-GW-DUPE were submitted as the field duplicate pair with this data set. The following table summarizes the RPDs or absolute differences (AbsDs), where applicable, of the detected analytes in the field duplicate pair. All criteria were met.

Compound	QL (ug/L)	DPW-GW-06 (ug/L)	DPW-GW-DUPE (ug/L)	RPD (%) or AbsD (ug/L)
1,2-Dichlorobenzene	1.0	1.3	1.2	AbsD = 0.1
1,4-Dichlorobenzene	1.0	4.5	5.0	AbsD = 0.5
Benzene	1.0	3.1	2.9	AbsD = 0.2
Chlorobenzene	1.0	37.3	38.2	RPD = 2.4
Isopropylbenzene	1.0	1.8	1.8	AbsD = 0

Criteria:

When both results are ≥5x the QL, RPDs must be ≤30%.

When one or both results are <5x the QL, AbsD must be < the QL.

Internal Standard Performance

All criteria were met.

Sample Results and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted. No dilutions were performed on the samples in this data set.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-01 Lab ID: 70199831001 Collected: 01/03/22 12:45 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

morodi,		J.						
8260C Volatile Organics	Analytical Mo	ethod: EPA 82600	C/5030C					
-	Pace Analyti	cal Services - Me	lville					
1,1,1-Trichloroethane	ND	ug/L	1.0	0.32	1	01/06/22 17:48	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.39	1	01/06/22 17:48	79-34-5	
1,1,2-Trichloroethane	-ND- UJ	ug/L	1.0	0.49	1	01/06/22 17:48	79-00-5	L2
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.31	1	01/06/22 17:48	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.58	1	01/06/22 17:48	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.54	1	01/06/22 17:48	75-35-4	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.87	1	01/06/22 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.72	1	01/06/22 17:48	120-82-1	
1,2-Dibromo-3-chloropropane	ND-UJ	ug/L	1.0	0.66	1	01/06/22 17:48	96-12-8	v3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.40	1	01/06/22 17:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.58	1	01/06/22 17:48	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	0.40	1	01/06/22 17:48	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	0.45	1	01/06/22 17:48	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.46	1	01/06/22 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1	01/06/22 17:48	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	0.51	1	01/06/22 17:48	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.74	1	01/06/22 17:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.36	1	01/06/22 17:48	108-10-1	
Acetone	NĐ UJ	ug/L	5.0	1.9	1	01/06/22 17:48	67-64-1	
Benzene	ND	ug/L	1.0	0.58	1	01/06/22 17:48	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.43	1	01/06/22 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.48	1	01/06/22 17:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.61	1	01/06/22 17:48	75-25-2	
Bromomethane	-ND- UJ	ug/L	1.0	0.74	1	01/06/22 17:48	74-83-9	v3_
Carbon disulfide	ND	ug/L	1.0	0.57	1	01/06/22 17:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.33	1	01/06/22 17:48	56-23-5	R1

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-01	Lab ID:	70199831001	Collected:	01/03/22	2 12:45	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8260C Volatile Organics	Analytical I	Method: EPA 8	3260C/5030C						
	Pace Analy	tical Services	- Melville						
Chlorobenzene	ND	ug/L	1.0	0.57	1		01/06/22 17:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 17:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.56	1		01/06/22 17:48	67-66-3	
Chloromethane	ND- U	J ug/L	1.0	0.63	1		01/06/22 17:48	74-87-3	v3
Cyclohexane	ND	ug/L	1.0	0.54	1		01/06/22 17:48	110-82-7	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		01/06/22 17:48	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 17:48	75-71-8	
Ethylbenzene	ND	ug/L	1.0	0.52	1		01/06/22 17:48	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		01/06/22 17:48	98-82-8	
Methyl acetate	ND	ug/L	1.0	0.99	1		01/06/22 17:48	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 17:48	1634-04-4	
Methylcyclohexane	ND	ug/L	1.0	0.48	1		01/06/22 17:48	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.77	1		01/06/22 17:48	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 17:48	100-42-5	
Tetrachloroethene	ND U	-	1.0	0.53	1		01/06/22 17:48	127-18-4	∨3
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 17:48	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 17:48	79-01-6	
Trichlorofluoromethane	-ND- U		1.0	0.23	1		01/06/22 17:48	75-69-4	<u>M</u> 1
Vinyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 17:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 17:48	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 17:48	156-59-2	
cis-1,3-Dichloropropene	NDU	JJ ug/L	1.0	0.46	1		01/06/22 17:48	10061-01-5	L2,M0
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 17:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 17:48		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 17:48		
trans-1,3-Dichloropropene		JJ ug/L	1.0	0.50	1		01/06/22 17:48		L2,M0
Surrogates									v3
1,2-Dichloroethane-d4 (S)	118	%	81-122		1		01/06/22 17:48	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-118		1		01/06/22 17:48	460-00-4	
Toluene-d8 (S)	90	%	82-122		1		01/06/22 17:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-02 Lab ID: 70199831002 Collected: 01/03/22 15:50 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

8260C Volatile Organics	Analytical Method: EPA	8260C/5030C				
	Pace Analytical Services	s - Melville				
1,1,1-Trichloroethane	ND ug/L	1.0	0.32	1	01/06/22 18:06 71-55-6	
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.39	1	01/06/22 18:06 79-34-5	
1,1,2-Trichloroethane	ND UJ ug/L	1.0	0.49	1	01/06/22 18:06 79-00-5 L-2	
1,1,2-Trichlorotrifluoroethane	ND ug/L	1.0	0.31	1	01/06/22 18:06 76-13-1	
1,1-Dichloroethane	ND ug/L	1.0	0.58	1	01/06/22 18:06 75-34-3	
1,1-Dichloroethene	ND ug/L	1.0	0.54	1	01/06/22 18:06 75-35-4	
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.87	1	01/06/22 18:06 87-61-6	
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.72	1	01/06/22 18:06 120-82-1	
1,2-Dibromo-3-chloropropane	-ND- UJ ug/L	1.0	0.66	1	01/06/22 18:06 96-12-8 - v 3	
1,2-Dibromoethane (EDB)	ND ug/L	1.0	0.40	1	01/06/22 18:06 106-93-4	
1,2-Dichlorobenzene	ND ug/L	1.0	0.58	1	01/06/22 18:06 95-50-1	
1,2-Dichloroethane	ND ug/L	1.0	0.40	1	01/06/22 18:06 107-06-2	
1,2-Dichloropropane	ND ug/L	1.0	0.45	1	01/06/22 18:06 78-87-5	
1,3-Dichlorobenzene	ND ug/L	1.0	0.46	1	01/06/22 18:06 541-73-1	
1,4-Dichlorobenzene	ND ug/L	1.0	0.48	1	01/06/22 18:06 106-46-7	
2-Butanone (MEK)	ND ug/L	5.0	0.51	1	01/06/22 18:06 78-93-3	
2-Hexanone	ND ug/L	5.0	0.74	1	01/06/22 18:06 591-78-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.36	1	01/06/22 18:06 108-10-1	
Acetone	ND- UJ ug/L	5.0	1.9	1	01/06/22 18:06 67-64-1	
Benzene	ND ug/L	1.0	0.58	1	01/06/22 18:06 71-43-2	
Bromochloromethane	ND ug/L	1.0	0.43	1	01/06/22 18:06 74-97-5	
Bromodichloromethane	ND ug/L	1.0	0.48	1	01/06/22 18:06 75-27-4	
Bromoform	ND ug/L	1.0	0.61	1	01/06/22 18:06 75-25-2	
Bromomethane	ND UJ ug/L	1.0	0.74	1	01/06/22 18:06 74-83-9 v3	
Carbon disulfide	ND ug/L	1.0	0.57	1	01/06/22 18:06 75-15-0	
Carbon tetrachloride	ND ug/L	1.0	0.33	1	01/06/22 18:06 56-23-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-02	Lab ID: 70	199831002	Collected	l: 01/03/22	2 15:50	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qua
8260C Volatile Organics	Analytical Me	thod: EPA 8	260C/50300						
	Pace Analytic	al Services	- Melville						
Chlorobenzene	1.3	ug/L	1.0	0.57	1		01/06/22 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 18:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.56	1		01/06/22 18:06	67-66-3	
Chloromethane	ND UJ	ug/L	1.0	0.63	1		01/06/22 18:06	74-87-3	-v 3
Cyclohexane	ND	ug/L	1.0	0.54	1		01/06/22 18:06	110-82-7	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		01/06/22 18:06	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 18:06	75-71-8	
Ethylbenzene	ND	ug/L	1.0	0.52	1		01/06/22 18:06	100-41-4	
sopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		01/06/22 18:06	98-82-8	
Methyl acetate	ND	ug/L	1.0	0.99	1		01/06/22 18:06	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 18:06	1634-04-4	
Methylcyclohexane	ND	ug/L	1.0	0.48	1		01/06/22 18:06	108-87-2	
Methylene Chloride		ug/L	1.0	0.77	1		01/06/22 18:06	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 18:06	100-42-5	
Tetrachloroethene	ND UJ	ug/L	1.0	0.53	1		01/06/22 18:06	127-18-4	-∨ 3
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 18:06	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 18:06	79-01-6	
Trichlorofluoromethane	ND- UJ	ug/L	1.0	0.23	1		01/06/22 18:06	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 18:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 18:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 18:06	156-59-2	
cis-1,3-Dichloropropene	-ND UJ	ug/L	1.0	0.46	1		01/06/22 18:06	10061-01-5	-L-2,v3
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 18:06	179601-23-1	•
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 18:06	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 18:06	156-60-5	
rans-1,3-Dichloropropene	ND UJ		1.0	0.50	1		01/06/22 18:06	10061-02-6	L2,v3
Surrogates		•							•
1,2-Dichloroethane-d4 (S)	115	%	81-122		1		01/06/22 18:06	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-118		1		01/06/22 18:06	460-00-4	
Toluene-d8 (S)	89	%	82-122		1		01/06/22 18:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-04 Lab ID: 70199831003 Collected: 01/04/22 11:50 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

8260C Volatile Organics	Analytical Method: EPA 8 Pace Analytical Services					
1,1,1-Trichloroethane	ND ug/L	1.0	0.32	1	01/06/22 18:24 71-55-6	
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.39	1	01/06/22 18:24 79-34-5	
1,1,2-Trichloroethane	ND UJ ug/L	1.0	0.49	1	01/06/22 18:24 79-00-5	2
1,1,2-Trichlorotrifluoroethane	ND ug/L	1.0	0.31	1	01/06/22 18:24 76-13-1	
1,1-Dichloroethane	ND ug/L	1.0	0.58	1	01/06/22 18:24 75-34-3	
1,1-Dichloroethene	ND ug/L	1.0	0.54	1	01/06/22 18:24 75-35-4	
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.87	1	01/06/22 18:24 87-61-6	
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.72	1	01/06/22 18:24 120-82-1	
1,2-Dibromo-3-chloropropane	ND UJ ug/L	1.0	0.66	1	01/06/22 18:24 96-12-8	/3-
1,2-Dibromoethane (EDB)	ND ug/L	1.0	0.40	1	01/06/22 18:24 106-93-4	
1,2-Dichlorobenzene	ND ug/L	1.0	0.58	1	01/06/22 18:24 95-50-1	
1,2-Dichloroethane	ND ug/L	1.0	0.40	1	01/06/22 18:24 107-06-2	
1,2-Dichloropropane	ND ug/L	1.0	0.45	1	01/06/22 18:24 78-87-5	
1,3-Dichlorobenzene	ND ug/L	1.0	0.46	1	01/06/22 18:24 541-73-1	
1,4-Dichlorobenzene	ND ug/L	1.0	0.48	1	01/06/22 18:24 106-46-7	
2-Butanone (MEK)	ND ug/L	5.0	0.51	1	01/06/22 18:24 78-93-3	
2-Hexanone	ND ug/L	5.0	0.74	1	01/06/22 18:24 591-78-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.36	1	01/06/22 18:24 108-10-1	
Acetone	NÐ UJ ug/L	5.0	1.9	1	01/06/22 18:24 67-64-1	
Benzene	ND ug/L	1.0	0.58	1	01/06/22 18:24 71-43-2	
Bromochloromethane	ND ug/L	1.0	0.43	1	01/06/22 18:24 74-97-5	
Bromodichloromethane	ND ug/L	1.0	0.48	1	01/06/22 18:24 75-27-4	
Bromoform	ND ug/L	1.0	0.61	1	01/06/22 18:24 75-25-2	
Bromomethane	ND UJ ug/L	1.0	0.74	1	01/06/22 18:24 74-83-9 v	/3
Carbon disulfide	ND ug/L	1.0	0.57	1	01/06/22 18:24 75-15-0	
Carbon tetrachloride	ND ug/L	1.0	0.33	1	01/06/22 18:24 56-23-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-04	Lab ID: 70	199831003	Collected	: 01/04/22	2 11:50	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qua
8260C Volatile Organics	Analytical Me	thod: EPA 8	260C/5030C						
	Pace Analytic	al Services	- Melville						
Chlorobenzene	ND	ug/L	1.0	0.57	1		01/06/22 18:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 18:24	75-00-3	
Chloroform		ug/L	1.0	0.56	1		01/06/22 18:24	67-66-3	
Chloromethane	ND- UJ	ug/L	1.0	0.63	1		01/06/22 18:24	74-87-3	v3
Cyclohexane		ug/L	1.0	0.54	1		01/06/22 18:24	110-82-7	
Dibromochloromethane		ug/L	1.0	0.50	1		01/06/22 18:24	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 18:24	75-71-8	
Ethylbenzene		ug/L	1.0	0.52	1		01/06/22 18:24	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		01/06/22 18:24	98-82-8	
Methyl acetate		ug/L	1.0	0.99	1		01/06/22 18:24	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 18:24	1634-04-4	
Methylcyclohexane		ug/L	1.0	0.48	1		01/06/22 18:24	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.77	1		01/06/22 18:24	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 18:24	100-42-5	
Tetrachloroethene	ND UJ	ug/L	1.0	0.53	1		01/06/22 18:24	127-18-4	<u>-v3</u>
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 18:24	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 18:24	79-01-6	
Trichlorofluoromethane	ND UJ	ug/L	1.0	0.23	1		01/06/22 18:24	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 18:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 18:24	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 18:24	156-59-2	
cis-1,3-Dichloropropene	-ND UJ	ug/L	1.0	0.46	1		01/06/22 18:24	10061-01-5	L2,v3
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 18:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 18:24	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 18:24	156-60-5	
rans-1,3-Dichloropropene	-ND UJ	-	1.0	0.50	1		01/06/22 18:24	10061-02-6	L2,v3
Surrogates									
1,2-Dichloroethane-d4 (S)	117	%	81-122		1		01/06/22 18:24	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118		1		01/06/22 18:24	460-00-4	
Toluene-d8 (S)	91	%	82-122		1		01/06/22 18:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-05 Lab ID: 70199831004 Collected: 01/03/22 16:50 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

8260C Volatile Organics	•	thod: EPA 82600						
	Pace Analytica	al Services - Me	lville					
1,1,1-Trichloroethane	ND	ug/L	1.0	0.32	1	01/06/22 18:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.39	1	01/06/22 18:42	79-34-5	
1,1,2-Trichloroethane	-ND UJ	ug/L	1.0	0.49	1	01/06/22 18:42	79-00-5	-t-2
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.31	1	01/06/22 18:42	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	0.58	1	01/06/22 18:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.54	1	01/06/22 18:42	75-35-4	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.87	1	01/06/22 18:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.72	1	01/06/22 18:42	120-82-1	
1,2-Dibromo-3-chloropropane	-ND- UJ	ug/L	1.0	0.66	1	01/06/22 18:42	96-12-8	<u>-v3</u> -
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.40	1	01/06/22 18:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.58	1	01/06/22 18:42	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	0.40	1	01/06/22 18:42	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	0.45	1	01/06/22 18:42	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.46	1	01/06/22 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1	01/06/22 18:42	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	0.51	1	01/06/22 18:42	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.74	1	01/06/22 18:42	591-78-6	
4-Methyl-2-pentanone (MIBK)		ug/L	5.0	0.36	1	01/06/22 18:42	108-10-1	
Acetone	ND UJ	ug/L	5.0	1.9	1	01/06/22 18:42	67-64-1	
Benzene	ND	ug/L	1.0	0.58	1	01/06/22 18:42	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.43	1	01/06/22 18:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.48	1	01/06/22 18:42	75-27-4	
Bromoform	ND	ug/L	1.0	0.61	1	01/06/22 18:42	75-25-2	
Bromomethane	ND UJ	ug/L	1.0	0.74	1	01/06/22 18:42	74-83-9	-v 3-
Carbon disulfide	ND	ug/L	1.0	0.57	1	01/06/22 18:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.33	1	01/06/22 18:42	56-23-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-05	Lab ID: 70	0199831004	Collected	d: 01/03/2	2 16:50	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results —	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8260C Volatile Organics	Analytical M	ethod: EPA 8	260C/5030	С					
	Pace Analyti	cal Services	- Melville						
Chlorobenzene	ND	ug/L	1.0	0.57	1		01/06/22 18:42	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 18:42	75-00-3	
Chloroform	ND	ug/L	1.0	0.56	1		01/06/22 18:42	67-66-3	
Chloromethane	ND UJ	ug/L	1.0	0.63	1		01/06/22 18:42	74-87-3	-v3 -
Cyclohexane	ND	ug/L	1.0	0.54	1		01/06/22 18:42	110-82-7	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		01/06/22 18:42	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 18:42	75-71-8	
Ethylbenzene	ND	ug/L	1.0	0.52	1		01/06/22 18:42	100-41-4	
sopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		01/06/22 18:42	98-82-8	
Methyl acetate	ND	ug/L	1.0	0.99	1		01/06/22 18:42	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 18:42	1634-04-4	
Methylcyclohexane	ND	ug/L	1.0	0.48	1		01/06/22 18:42	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.77	1		01/06/22 18:42	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 18:42	100-42-5	
Tetrachloroethene	ND- UJ	ug/L	1.0	0.53	1		01/06/22 18:42	127-18-4	₩3-
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 18:42	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 18:42	79-01-6	
Trichlorofluoromethane	ND- UJ	ug/L	1.0	0.23	1		01/06/22 18:42	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 18:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 18:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 18:42	156-59-2	
cis-1,3-Dichloropropene	-ND- UJ	ug/L	1.0	0.46	1		01/06/22 18:42	10061-01-5	L2,v3 -
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 18:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 18:42	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 18:42	156-60-5	
trans-1,3-Dichloropropene	ND UJ	ug/L	1.0	0.50	1		01/06/22 18:42	10061-02-6	-L2,v3-
Surrogates		,							•
1,2-Dichloroethane-d4 (S)	117	%	81-122		1		01/06/22 18:42	17060-07-0	
4-Bromofluorobenzene (S)	88	%	79-118		1		01/06/22 18:42	460-00-4	
Toluene-d8 (S)	91	%	82-122		1		01/06/22 18:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-06 Lab ID: 70199831005 Collected: 01/04/22 11:35 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

8260C Volatile Organics	Analytical Met	hod: EPA 8	260C/5030C				
	Pace Analytica	al Services	- Melville				
1,1,1-Trichloroethane	ND u	ug/L	1.0	0.32	1	01/06/22 19:01 71-55-6	3
1,1,2,2-Tetrachloroethane	ND u	ug/L	1.0	0.39	1	01/06/22 19:01 79-34-5	5
1,1,2-Trichloroethane	NÐ- UJ (ug/L	1.0	0.49	1	01/06/22 19:01 79-00-5	L2
1,1,2-Trichlorotrifluoroethane	ND (ug/L	1.0	0.31	1	01/06/22 19:01 76-13-1	
1,1-Dichloroethane	ND (ug/L	1.0	0.58	1	01/06/22 19:01 75-34-3	3
1,1-Dichloroethene	ND u	ug/L	1.0	0.54	1	01/06/22 19:01 75-35-4	ļ
1,2,3-Trichlorobenzene	ND u	ug/L	1.0	0.87	1	01/06/22 19:01 87-61-6	5
1,2,4-Trichlorobenzene	ND u	ug/L	1.0	0.72	1	01/06/22 19:01 120-82-	-1
1,2-Dibromo-3-chloropropane	NÐ UJ (ug/L	1.0	0.66	1	01/06/22 19:01 96-12-8	8 ₩3-
1,2-Dibromoethane (EDB)	ND (ug/L	1.0	0.40	1	01/06/22 19:01 106-93-	-4
1,2-Dichlorobenzene	1.3 (ug/L	1.0	0.58	1	01/06/22 19:01 95-50-1	
1,2-Dichloroethane	ND (ug/L	1.0	0.40	1	01/06/22 19:01 107-06-	-2
1,2-Dichloropropane	ND (ug/L	1.0	0.45	1	01/06/22 19:01 78-87-5	5
1,3-Dichlorobenzene	ND (ug/L	1.0	0.46	1	01/06/22 19:01 541-73-	-1
1,4-Dichlorobenzene	4.5 (ug/L	1.0	0.48	1	01/06/22 19:01 106-46-	-7
2-Butanone (MEK)	ND (ug/L	5.0	0.51	1	01/06/22 19:01 78-93-3	3
2-Hexanone	ND (ug/L	5.0	0.74	1	01/06/22 19:01 591-78-	-6
4-Methyl-2-pentanone (MIBK)		ug/L	5.0	0.36	1	01/06/22 19:01 108-10-	-1
Acetone	-ND - <mark>UJ</mark> լ	ug/L	5.0	1.9	1	01/06/22 19:01 67-64-1	
Benzene	3.1 (ug/L	1.0	0.58	1	01/06/22 19:01 71-43-2	2
Bromochloromethane	ND (ug/L	1.0	0.43	1	01/06/22 19:01 74-97-5	5
Bromodichloromethane	ND (ug/L	1.0	0.48	1	01/06/22 19:01 75-27-4	ļ
Bromoform	ND (ug/L	1.0	0.61	1	01/06/22 19:01 75-25-2	2
Bromomethane	ND-UJ (ug/L	1.0	0.74	1	01/06/22 19:01 74-83-9) v3
Carbon disulfide	ND (ug/L	1.0	0.57	1	01/06/22 19:01 75-15-0)
Carbon tetrachloride	ND (ug/L	1.0	0.33	1	01/06/22 19:01 56-23-5	5

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-06	Lab ID: 70	199831005	Collected	: 01/04/22	11:35	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3260C Volatile Organics	Analytical Mo	ethod: EPA 8	3260C/5030C	;					
	Pace Analyti	cal Services	- Melville						
Chlorobenzene	37.3	ug/L	1.0	0.57	1		01/06/22 19:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 19:01	75-00-3	
Chloroform	ND	ug/L	1.0	0.56	1		01/06/22 19:01	67-66-3	
Chloromethane	ND- UJ	ug/L	1.0	0.63	1		01/06/22 19:01	74-87-3	∨3-
Cyclohexane	ND	ug/L	1.0	0.54	1		01/06/22 19:01	110-82-7	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		01/06/22 19:01	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 19:01	75-71-8	
Ethylbenzene	ND	ug/L	1.0	0.52	1		01/06/22 19:01	100-41-4	
sopropylbenzene (Cumene)	1.8	ug/L	1.0	0.40	1		01/06/22 19:01	98-82-8	
Methyl acetate	ND	ug/L	1.0	0.99	1		01/06/22 19:01	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 19:01	1634-04-4	
Methylcyclohexane	ND	ug/L	1.0	0.48	1		01/06/22 19:01	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.77	1		01/06/22 19:01	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 19:01	100-42-5	
Tetrachloroethene	-ND - UJ	ug/L	1.0	0.53	1		01/06/22 19:01	127-18-4	∨ 3
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 19:01	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 19:01	79-01-6	
Trichlorofluoromethane	ND- UJ	ug/L	1.0	0.23	1		01/06/22 19:01	75-69-4	
/inyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 19:01	75-01-4	
(Ylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 19:01	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 19:01	156-59-2	
cis-1,3-Dichloropropene	- N Ð UJ	ug/L	1.0	0.46	1		01/06/22 19:01	10061-01-5	L2,v3
n&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 19:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 19:01	95-47-6	
rans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 19:01	156-60-5	
rans-1,3-Dichloropropene	- ND - UJ	ug/L	1.0	0.50	1		01/06/22 19:01	10061-02-6	L2,v3
Surrogates		-							
1,2-Dichloroethane-d4 (S)	114	%	81-122		1		01/06/22 19:01	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-118		1		01/06/22 19:01	460-00-4	
Toluene-d8 (S)	87	%	82-122		1		01/06/22 19:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-DUPE Lab ID: 70199831006 Collected: 01/03/22 08:00 Received: 01/05/22 11:10 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

8260C Volatile Organics	Analytical Method: EPA	8260C/5030C				
	Pace Analytical Services	s - Melville				
1,1,1-Trichloroethane	ND ug/L	1.0	0.32	1	01/06/22 19:19 71-55-6	
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.39	1	01/06/22 19:19 79-34-5	
1,1,2-Trichloroethane	ND UJ ug/L	1.0	0.49	1	01/06/22 19:19 79-00-5	
1,1,2-Trichlorotrifluoroethane	ND ug/L	1.0	0.31	1	01/06/22 19:19 76-13-1	
1,1-Dichloroethane	ND ug/L	1.0	0.58	1	01/06/22 19:19 75-34-3	
1,1-Dichloroethene	ND ug/L	1.0	0.54	1	01/06/22 19:19 75-35-4	
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.87	1	01/06/22 19:19 87-61-6	
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.72	1	01/06/22 19:19 120-82-1	
1,2-Dibromo-3-chloropropane	ND UJ ug/L	1.0	0.66	1	01/06/22 19:19 96-12-8 v3 -	-
1,2-Dibromoethane (EDB)	ND ug/L	1.0	0.40	1	01/06/22 19:19 106-93-4	
1,2-Dichlorobenzene	1.2 ug/L	1.0	0.58	1	01/06/22 19:19 95-50-1	
1,2-Dichloroethane	ND ug/L	1.0	0.40	1	01/06/22 19:19 107-06-2	
1,2-Dichloropropane	ND ug/L	1.0	0.45	1	01/06/22 19:19 78-87-5	
1,3-Dichlorobenzene	ND ug/L	1.0	0.46	1	01/06/22 19:19 541-73-1	
1,4-Dichlorobenzene	5.0 ug/L	1.0	0.48	1	01/06/22 19:19 106-46-7	
2-Butanone (MEK)	ND ug/L	5.0	0.51	1	01/06/22 19:19 78-93-3	
2-Hexanone	ND ug/L	5.0	0.74	1	01/06/22 19:19 591-78-6	
4-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.36	1	01/06/22 19:19 108-10-1	
Acetone	-NÐ- UJ ug/L	5.0	1.9	1	01/06/22 19:19 67-64-1	
Benzene	2.9 ug/L	1.0	0.58	1	01/06/22 19:19 71-43-2	
Bromochloromethane	ND ug/L	1.0	0.43	1	01/06/22 19:19 74-97-5	
Bromodichloromethane	ND ug/L	1.0	0.48	1	01/06/22 19:19 75-27-4	
Bromoform	ND ug/L	1.0	0.61	1	01/06/22 19:19 75-25-2	
Bromomethane	ND UJ ug/L	1.0	0.74	1	01/06/22 19:19 74-83-9 - v3 -	-
Carbon disulfide	ND ug/L	1.0	0.57	1	01/06/22 19:19 75-15-0	
Carbon tetrachloride	ND ug/L	1.0	0.33	1	01/06/22 19:19 56-23-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-DUPE	Lab ID: 7	0199831006	Collected	: 01/03/22	2 08:00	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8260C Volatile Organics	Analytical M	ethod: EPA 8	260C/5030C						
	Pace Analyt	ical Services	- Melville						
Chlorobenzene	38.2	ug/L	1.0	0.57	1		01/06/22 19:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		01/06/22 19:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.56	1		01/06/22 19:19	67-66-3	
Chloromethane	ND UJ	l ug/L	1.0	0.63	1		01/06/22 19:19	74-87-3	-v3
Cyclohexane	ND	ug/L	1.0	0.54	1		01/06/22 19:19	110-82-7	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		01/06/22 19:19	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	0.37	1		01/06/22 19:19	75-71-8	
Ethylbenzene	ND	ug/L	1.0	0.52	1		01/06/22 19:19	100-41-4	
sopropylbenzene (Cumene)	1.8	ug/L	1.0	0.40	1		01/06/22 19:19	98-82-8	
Methyl acetate	ND	ug/L	1.0	0.99	1		01/06/22 19:19	79-20-9	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.51	1		01/06/22 19:19	1634-04-4	
Methylcyclohexane	ND	ug/L	1.0	0.48	1		01/06/22 19:19	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.77	1		01/06/22 19:19	75-09-2	
Styrene	ND	ug/L	1.0	0.57	1		01/06/22 19:19	100-42-5	
Tetrachloroethene	ND - UJ	ug/L	1.0	0.53	1		01/06/22 19:19	127-18-4	-v3-
Toluene	ND	ug/L	1.0	0.57	1		01/06/22 19:19	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/06/22 19:19	79-01-6	
Trichlorofluoromethane	ND- UJ	ug/L	1.0	0.23	1		01/06/22 19:19	75-69-4	
/inyl chloride	ND	ug/L	1.0	0.48	1		01/06/22 19:19	75-01-4	
(Ylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 19:19	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 19:19	156-59-2	
cis-1,3-Dichloropropene	- ND UJ	ug/L	1.0	0.46	1		01/06/22 19:19	10061-01-5	L2,v3
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 19:19		,
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 19:19		
rans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 19:19		
rans-1,3-Dichloropropene	ND U		1.0	0.50	1		01/06/22 19:19		-L-2.v3-
Surrogates	–	J .							-,
I,2-Dichloroethane-d4 (S)	115	%	81-122		1		01/06/22 19:19	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-118		1		01/06/22 19:19	460-00-4	
Toluene-d8 (S)	90	%	82-122		1		01/06/22 19:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: TRIP BLANK	Lab ID: 7019983100	7 Collecte	d: 01/04/22	2 00:00	Received: 07	1/05/22 11:10 Ma	5/22 11:10 Matrix: Water		
		Report							
Parameters	Results Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua	
8260C Volatile Organics	Analytical Method: EPA Pace Analytical Service		С						
1,1,1-Trichloroethane	ND ug/L	1.0	0.32	1		01/06/22 17:29	71-55-6		
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.39	1		01/06/22 17:29	79-34-5		
1,1,2-Trichloroethane	-ND UJ ug/L	1.0	0.49	1		01/06/22 17:29	79-00-5	L-2	
1,1,2-Trichlorotrifluoroethane	ND ug/L	1.0	0.31	1		01/06/22 17:29	76-13-1		
1,1-Dichloroethane	ND ug/L	1.0	0.58	1		01/06/22 17:29	75-34-3		
1,1-Dichloroethene	ND ug/L	1.0	0.54	1		01/06/22 17:29	75-35-4		
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.87	1		01/06/22 17:29	87-61-6		
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.72	1		01/06/22 17:29	120-82-1		
1,2-Dibromo-3-chloropropane	-NÐ- UJ ug/L	1.0	0.66	1		01/06/22 17:29	96-12-8	_v3_	
1,2-Dibromoethane (EDB)	ND ug/L	1.0	0.40	1		01/06/22 17:29	106-93-4		
1,2-Dichlorobenzene	ND ug/L	1.0	0.58	1		01/06/22 17:29	95-50-1		
1,2-Dichloroethane	ND ug/L	1.0	0.40	1		01/06/22 17:29	107-06-2		
1,2-Dichloropropane	ND ug/L	1.0	0.45	1		01/06/22 17:29	78-87-5		
1,3-Dichlorobenzene	ND ug/L	1.0	0.46	1		01/06/22 17:29	541-73-1		
1,4-Dichlorobenzene	ND ug/L	1.0	0.48	1		01/06/22 17:29	106-46-7		
2-Butanone (MEK)	ND ug/L	5.0	0.51	1		01/06/22 17:29	78-93-3		
2-Hexanone	ND ug/L	5.0	0.74	1		01/06/22 17:29	591-78-6		
I-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.36	1		01/06/22 17:29	108-10-1		
Acetone	<u>-ND</u> ∪J ug/L	5.0	1.9	1		01/06/22 17:29	67-64-1		
Benzene	ND ug/L	1.0	0.58	1		01/06/22 17:29	71-43-2		
Bromochloromethane	ND ug/L	1.0	0.43	1		01/06/22 17:29	74-97-5		
Bromodichloromethane	ND ug/L	1.0	0.48	1		01/06/22 17:29	75-27-4		
Bromoform	ND ug/L	1.0	0.61	1		01/06/22 17:29	75-25-2		
Bromomethane	ND - UJ ug/L	1.0	0.74	1		01/06/22 17:29	74-83-9	-v3	
Carbon disulfide	ND ug/L	1.0	0.57	1		01/06/22 17:29	75-15-0		
Carbon tetrachloride	ND ug/L	1.0	0.33	1		01/06/22 17:29	56-23-5		
Chlorobenzene	ND ug/L	1.0	0.57	1		01/06/22 17:29	108-90-7		
Chloroethane	ND ug/L	1.0	0.64	1		01/06/22 17:29	75-00-3		
Chloroform	ND ug/L	1.0	0.56	1		01/06/22 17:29	67-66-3		
Chloromethane	ND UJ ug/L	1.0	0.63	1		01/06/22 17:29	74-87-3	-v3- -	
Cyclohexane	ND ug/L	1.0	0.54	1		01/06/22 17:29	110-82-7		
Dibromochloromethane	ND ug/L	1.0	0.50	1		01/06/22 17:29	124-48-1		
Dichlorodifluoromethane	ND ug/L	1.0	0.37	1		01/06/22 17:29	75-71-8		
Ethylbenzene	ND ug/L	1.0	0.52	1		01/06/22 17:29	100-41-4		
sopropylbenzene (Cumene)	ND ug/L	1.0	0.40	1		01/06/22 17:29	98-82-8		
Methyl acetate	ND ug/L	1.0	0.99	1		01/06/22 17:29	79-20-9		
Methyl-tert-butyl ether	ND ug/L	1.0	0.51	1		01/06/22 17:29	1634-04-4		
Methylcyclohexane	ND ug/L	1.0	0.48	1		01/06/22 17:29			
Methylene Chloride	ND ug/L	1.0	0.77	1		01/06/22 17:29	75-09-2		
Styrene	ND ug/L	1.0	0.57	1		01/06/22 17:29			
Tetrachloroethene	-ND- UJ ug/L	1.0	0.53	1		01/06/22 17:29		-v3	
Toluene	ND ug/L	1.0	0.57	1		01/06/22 17:29			
Trichloroethene	ND ug/L	1.0	0.47	1		01/06/22 17:29			
Trichlorofluoromethane	ND UJ ug/L	1.0	0.23	1		01/06/22 17:29			
Vinyl chloride	ND ug/L	1.0	0.48	1		01/06/22 17:29			

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: TRIP BLANK	Lab ID: 70	0199831007	Collected	d: 01/04/22	00:00	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Mo	ethod: EPA	8260C/5030	С					
	Pace Analyti	cal Services	- Melville						
Xylene (Total)	ND	ug/L	3.0	0.47	1		01/06/22 17:29	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.50	1		01/06/22 17:29	156-59-2	
cis-1,3-Dichloropropene	-ND UJ	ug/L	1.0	0.46	1		01/06/22 17:29	10061-01-5	L2,v3
m&p-Xylene	ND	ug/L	2.0	0.93	1		01/06/22 17:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.47	1		01/06/22 17:29	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.56	1		01/06/22 17:29	156-60-5	
trans-1,3-Dichloropropene	-ND - UJ	ug/L	1.0	0.50	1		01/06/22 17:29	10061-02-6	L2,v3
Surrogates		-							
1,2-Dichloroethane-d4 (S)	117	%	81-122		1		01/06/22 17:29	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118		1		01/06/22 17:29	460-00-4	
Toluene-d8 (S)	89	%	82-122		1		01/06/22 17:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

QC NONCONFORMANCE DOCUMENTATION

SAMPLE NO.

MSV - FORM VII VOA-1 MSV CONTINUING CALIBRATION DATA

16123942CCV

Lab Name: Pace Analytical - New York Calibration Date: 01/06/2022 Time: 14:43

Instrument ID: 70MSV5 GC Column: Col 1 Init. Calib. Date(s): 08/17/2021 08/17/2021

Lab File ID: 010622.B\H35739.D Init. Calib. Time(s): 14:13 16:36

SDG No.: 70199831

^{* -} Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VII VOA-2 MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

16123942CCV

Lab Name: Pace Analytical - New York Calibration Date: 01/06/2022 Time: 14:43

<u>Instrument ID: 70MSV5</u> GC Column: <u>Col 1</u> Init. Calib. Date(s): <u>08/17/2021</u> <u>08/17/2021</u>

Lab File ID: 010622.B\H35739.D Init. Calib. Time(s): 14:13 16:36

SDG No.: 70199831

70199831						
COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
4-Methyl-2-pentanone (MIBK)	Averaged	0.31311	0.28170	0.0100	-10.0319	20.0000
Methyl-tert-butyl ether	Averaged	1.79584	1.66386	0.1000	-7.3496	20.0000
Styrene	Averaged	2.14624	1.96796	0.2000	-8.3067	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.97322	0.82544	0.2000	-15.1845	20.0000
Tetrachloroethene	Averaged	0.87035	0.62036	0.1000	-28.7227	20.0000
Toluene	Averaged	1.86495	1.70785	0.3000	-8.4236	20.0000
1,2,3-Trichlorobenzene	Averaged	0.59683	0.61897	0.4000	3.7094	20.0000
1,2,4-Trichlorobenzene	Averaged	0.74119	0.75138	0.4000	1.3755	20.0000
1,1,1-Trichloroethane	Averaged	0.48744	0.49276	0.0500	1.0932	20.0000
1,1,2-Trichloroethane	Averaged	0.30590	0.24547	0.2000	-19.7554	20.0000
Trichloroethene	Averaged	0.42980	0.42020	0.2000	-2.2356	20.0000
Trichlorofluoromethane	Averaged	0.83777	1.14655	0.0100	36.8566*	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.56686	0.61358	0.0500	8.2425	20.0000
Vinyl chloride	Averaged	0.97226	0.82821	0.0100	-14.8160	20.0000
m&p-Xylene	Averaged	1.35215	1.23257	0.2000	-8.8433	20.0000
o-Xylene	Averaged	1.34200	1.17755	0.2000	-12.2536	20.0000
4-Bromofluorobenzene (S)	Averaged	0.82097	0.75131	0.0100	-8.4848	20.0000
1,2-Dichloroethane-d4 (S)	Averaged	0.33352	0.37516	0.0100	12.4850	20.0000
Toluene-d8 (S)	Averaged	2.29829	2.10288	0.0100	-8.5024	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

^{* -} Value lies outside of established control limits.



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

MATRIX SPIKE & MATR	IX SPIKE DUP	LICATE: 1211	625		1211626							
	DDIM OW 04		MS	MSD								
	DPW-GW-01	70199831001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qu
,2-Dibromoethane (EDB	ug/L	ND	50	50	42.4	45.2	85	90	78-121	6	20	
,2-Dichlorobenzene	ug/L	ND	50	50	45.8	46.8	92	94	75-120	2	20	
,2-Dichloroethane	ug/L	ND	50	50	57.5	59.6	115	119	58-138	4	20	
,2-Dichloropropane	ug/L	ND	50	50	46.6	48.6	93	97	74-122	4	20	
,3-Dichlorobenzene	ug/L	ND	50	50	48.4	50.0	97	100	78-119	3	20	
,4-Dichlorobenzene	ug/L	ND	50	50	48.7	49.0	97	98	76-118	1	20	
-Butanone (MEK)	ug/L	ND	50	50	36.7	38.4	73	77	33-148	5	20	
-Hexanone	ug/L	ND	50	50	44.7	45.4	89	91	49-124	2		
-Methyl-2-pentanone	ug/L	ND	50	50	45.7	46.1	91	92	60-136	1	20	
MIBK)	J											
Acetone	ug/L	ND	50	50	47.6	47.6	95	95	35-112	0	20	v1
Benzene	ug/L	ND	50	50	51.8	53.9	104	108	70-130	4	20	
Bromochloromethane	ug/L	ND	50	50	46.0	46.7	92	93	70-122	2	20	
Bromodichloromethane	ug/L	ND	50	50	46.4	52.0	93	104	74-122	11	20	
Bromoform	ug/L	ND	50	50	30.8	34.0	62	68	39-139	10	20	
Bromomethane	ug/L	ND	50	50	27.5	32.8	55	66	10-130	17	20	v3
Carbon disulfide	ug/L	ND	50	50	53.9	56.8	108	114	60-129	5	20	
Carbon tetrachloride	ug/L	ND	50	50	45.3	55.9	91	112	56-143	21	20	R1
chlorobenzene	ug/L	ND	50	50	47.3	47.5	95	95	74-122	1	20	
Chloroethane	ug/L	ND	50	50	46.9	48.8	94	98	35-146	4	20	
Chloroform	ug/L	ND	50	50	56.8	59.3	114	119	71-129	4	20	
Chloromethane	ug/L	ND	50	50	39.5	44.1	79	88	29-112	11	20	v3
is-1,2-Dichloroethene	ug/L	ND	50	50	48.3	49.8	97	100	73-129	3	20	
is-1,3-Dichloropropene	ug/L	ND	50	50	32.5	36.8	65	74	67-130	12	20	M0,
Cyclohexane	ug/L	ND	50	50	51.5	52.5	103	105	46-146	2	20	
Dibromochloromethane	ug/L	ND	50	50	38.1	42.1	76	84	55-126	10	20	
Dichlorodifluoromethane	ug/L	ND	50	50	57.8	59.4	116	119	10-123	3	20	
Ethylbenzene	ug/L	ND	50	50	45.3	47.6	91	95	70-126	5	20	
sopropylbenzene Cumene)	ug/L	ND	50	50	54.8	56.5	110	113	68-127	3	20	
n&p-Xylene	ug/L	ND	100	100	95.7	95.6	96	96	79-123	0	20	
lethyl acetate	ug/L	ND	50	50	52.2	62.2	104	124	10-260	17	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	48.0	50.0	96	100	60-140	4	20	
/lethylcyclohexane	ug/L	ND	50	50	48.9	51.3	98	103	66-135	5	20	
Methylene Chloride	ug/L	ND	50	50	42.3	46.4	85	93	69-117	9	20	
-Xylene	ug/L	ND	50	50	45.2	46.2	90	92	57-139	2	20	
Styrene	ug/L	ND	50	50	47.1	48.3	94	97	79-123	3	20	
etrachloroethene	ug/L	ND	50	50	37.7	38.2	75	76	64-124	1		v3
oluene	ug/L	ND	50	50	47.9	49.4	96	99	76-123	3		
ans-1,2-Dichloroethene	ug/L	ND	50	50	51.4	53.8	103	108	69-127	5		
ans-1,3-Dichloropropen		ND	50	50	30.2	33.8	60	68	61-130	11		M0,
richloroethene	ug/L	ND	50	50	51.6	53.5	103	107	73-125	4		,
richlorofluoromethane	ug/L	ND	50	50	72.2	76.4	144	153	59-129	6		M1,
inyl chloride	ug/L	ND	50	50	46.3	48.0	93	96	33-127	4	20	,
(ylene (Total)	ug/L	ND	150	150	141	142	94	95	78-123	1		
,2-Dichloroethane-d4 (S		110	.50	.50			114	115	81-122		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

METHOD BLANK: 1211182 Matrix: Water

Associated Lab Samples: 70199831001, 70199831002, 70199831003, 70199831004, 70199831005, 70199831006, 70199831007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylcyclohexane	ug/L	ND -	1.0	0.48	01/06/22 15:38	
Methylene Chloride	ug/L	ND	1.0	0.77	01/06/22 15:38	
o-Xylene	ug/L	ND	1.0	0.47	01/06/22 15:38	
Styrene	ug/L	ND	1.0	0.57	01/06/22 15:38	
Tetrachloroethene	ug/L	ND	1.0	0.53	01/06/22 15:38	v3
Toluene	ug/L	ND	1.0	0.57	01/06/22 15:38	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.56	01/06/22 15:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.50	01/06/22 15:38	v3
Trichloroethene	ug/L	ND	1.0	0.47	01/06/22 15:38	
Trichlorofluoromethane	ug/L	ND	1.0	0.23	01/06/22 15:38	
Vinyl chloride	ug/L	ND	1.0	0.48	01/06/22 15:38	
Xylene (Total)	ug/L	ND	3.0	0.47	01/06/22 15:38	
1,2-Dichloroethane-d4 (S)	%	115	81-122		01/06/22 15:38	
4-Bromofluorobenzene (S)	%	91	79-118		01/06/22 15:38	
Toluene-d8 (S)	%	93	82-122		01/06/22 15:38	

ABORATORY CONTROL SAMPLE	1211183					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	101	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	43.9	88	70-127	
1,1,2-Trichloroethane	ug/L	50	39.9	80	81-119 L	2
,1,2-Trichlorotrifluoroethane	ug/L	50	55.2	110	54-133	
,1-Dichloroethane	ug/L	50	52.4	105	72-126	
,1-Dichloroethene	ug/L	50	46.4	93	66-133	
,2,3-Trichlorobenzene	ug/L	50	49.4	99	50-143	
,2,4-Trichlorobenzene	ug/L	50	52.0	104	56-141	
,2-Dibromo-3-chloropropane	ug/L	50	35.2	70	47-133 v	3
,2-Dibromoethane (EDB)	ug/L	50	42.2	84	81-123	
,2-Dichlorobenzene	ug/L	50	45.6	91	80-117	
,2-Dichloroethane	ug/L	50	51.4	103	69-134	
,2-Dichloropropane	ug/L	50	44.7	89	75-125	
,3-Dichlorobenzene	ug/L	50	48.9	98	82-116	
,4-Dichlorobenzene	ug/L	50	48.4	97	80-117	
-Butanone (MEK)	ug/L	50	37.5	75	33-165	
-Hexanone	ug/L	50	47.1	94	50-128	
-Methyl-2-pentanone (MIBK)	ug/L	50	44.9	90	62-131	
cetone	ug/L	50	43.5	87	14-156 v	1
Senzene	ug/L	50	49.3	99	78-117	
romochloromethane	ug/L	50	43.0	86	77-122	
romodichloromethane	ug/L	50	50.0	100	80-123	
Bromoform	ug/L	50	37.2	74	49-138	
Bromomethane	ug/L	50	29.4	59	10-143 v	3
Carbon disulfide	ug/L	50	52.1	104	66-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

ABORATORY CONTROL SAMPLE:	1211183					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
arbon tetrachloride	ug/L	50	52.5	105	64-135	
nlorobenzene	ug/L	50	45.9	92	79-117	
nloroethane	ug/L	50	43.8	88	31-156	
hloroform	ug/L	50	52.9	106	79-123	
loromethane	ug/L	50	38.3	77	39-116	v3
-1,2-Dichloroethene	ug/L	50	45.3	91	77-125	
s-1,3-Dichloropropene	ug/L	50	36.0	72	78-131	L2,v3
vclohexane	ug/L	50	46.8	94	53-130	
bromochloromethane	ug/L	50	45.6	91	65-123	
chlorodifluoromethane	ug/L	50	56.5	113	13-149	
hylbenzene	ug/L	50	44.9	90	79-115	
propylbenzene (Cumene)	ug/L	50	53.0	106	74-118	
&p-Xylene	ug/L	100	92.8	93	80-118	
ethyl acetate	ug/L	50	57.4	115	10-214	
thyl-tert-butyl ether	ug/L	50	44.8	90	69-118	
thylcyclohexane	ug/L	50	46.1	92	63-124	
ethylene Chloride	ug/L	50	41.4	83	67-123	
(ylene	ug/L	50	44.1	88	80-119	
yrene	ug/L	50	46.5	93	82-121	
rachloroethene	ug/L	50	36.5	73	65-120	v3
luene	ug/L	50	45.2	90	80-114	
ns-1,2-Dichloroethene	ug/L	50	47.3	95	74-123	
ns-1,3-Dichloropropene	ug/L	50	34.3	69	73-135	L2,v3
chloroethene	ug/L	50	49.1	98	79-115	
chlorofluoromethane	ug/L	50	68.2	136	51-136	v1
yl chloride	ug/L	50	44.8	90	49-118	
ene (Total)	ug/L	150	137	91	80-118	
-Dichloroethane-d4 (S)	%			115	81-122	
romofluorobenzene (S)	%			92	79-118	
uene-d8 (S)	%			92	82-122	

MATRIX SPIKE & MATRIX SI	PIKE DUPLIC	CATE: 1211	625		1211626							
Parameter	7 Units	0199831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	45.3	52.8	91	106	72-123	 15	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.1	42.5	86	85	64-133	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	41.7	45.3	83	91	78-120	8	20	
1,1,2- Trichlorotrifluoroethane	ug/L	ND	50	50	58.7	62.6	117	125	56-136	6	20	
1,1-Dichloroethane	ug/L	ND	50	50	55.4	58.3	111	117	70-124	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	48.8	50.3	98	101	61-139	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	46.2	47.0	92	94	48-140	2	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	46.8	48.9	94	98	53-138	4	20	
1,2-Dibromo-3- chloropropane	ug/L	ND	50	50	26.6	29.4	53	59	32-137	10	20	v3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Data Usability Summary Report

Site: Depew Landfill

Laboratory: Pace Analytical Services – Melville, NY

SDG No.: 70199831 (revised 02/22/2022)

Parameters: Metals

Data Reviewer: Jeanette Daniels/TRC
Peer Reviewer: Kristen Morin/TRC
Date: March 23, 2022

Sample Reviewed and Evaluation Summary

6 Ground Water Samples: DPW-GW-01, DPW-GW-02, DPW-GW-04, DPW-GW-05, DPW-

GW-06. DPW-GW-DUPE1

The above-listed groundwater samples were collected January 3-4, 2022 and were analyzed for metals by EPA Methods 200.7/245.1.

The data validation was performed in accordance with *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006),* November 2020, modified for the GW-846 and EPA methodologies utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
 - Initial and Continuing Calibrations
- Interference Check Sample (ICS) Results
 - Blanks
 - Matrix Spike (MS) Results
 - Laboratory Duplicate Results
 - Serial Dilution Results
- Laboratory Control Sample (LCS) Results
 - Field Duplicate Results
 - Sample Results and Reported Quantitation Limits (QLs)
- * All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.

Potential uncertainty exists for select metals results that were detected between the
method detection limit (MDL) and QL. These results were qualified as estimated (J) in the
associated samples. These results can be used for project objectives as estimated values,
which may have a minor impact on the data usability.

¹Field duplicate of DPW-GW-06



- The positive result for lead in sample DPW-GW-01 was qualified as estimated (J+) with a
 potential high bias due to high recovery in the low-level standard. This result can be used
 for project objectives as an estimated value, which may have a minor impact on the data
 usability.
- The positive result for selenium in sample DPW-GW-02 was qualified as nondetect (U) at the QL due to calibration blank contamination. This result can be used for project objectives as a nondetect, which may have a minor impact on the data usability.
- The nondetect results for silver in samples DPW-GW-02, DPW-GW-04, DPW-GW-05, DPW-GW-06, and DPW-GW-DUPE were qualified as estimated (UJ) with a potential low bias due to low MS and post-digestion spike (PDS) recoveries. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.
- The nondetect results for lead in all samples in this data set except DPW-GW-01 were qualified as estimated (UJ) due to laboratory duplicate variability. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package with one exception. A discrepancy was noted on the sample condition upon receipt form regarding samples requiring preservation. It was confirmed during validation that all samples were properly preserved; no validation actions were required on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the metals analyses.

Initial and Continuing Calibrations

The initial calibration verification and continuing calibration verification percent recoveries (%Rs) met the method acceptance limits for the metals analyses. All initial calibration coefficients were >0.995.

The table below summarizes the low-level standard %R that did not meet the acceptance limits of 80-120% for metals (except mercury which has acceptance limits of 70-130%), the associated samples, and the validation action.

Low-Level Standard	Analyte	%R	%R limits	Validation Action					
01/17/2022 @22:29	Lead	129.2	80-120	The positive result for lead in sample DPW-GW-01 was qualified as estimated with a potential high bias (J+) since it was <10x the QL. No qualifications were required for the remaining associated samples since the results for lead were nondetect.					
Associated s	Associated samples: All samples in this data set.								



ICS Results

All spiked analytes recovered within the acceptance limits in the ICSAB sample analyses. There were several analytes detected as positive and/or negative interference in the ICSA analyses. However, the interferents, aluminum, calcium, iron and magnesium, were not reported as target analytes in the samples in this data set. Therefore, ICS interferences were not further evaluated.

Blanks

The laboratory reported instrument blank results to the instrument detection limit (IDL) for metals and mercury; the IDL was lower than the MDL. Instrument calibration results were only evaluated to the sample MDLs during validation since sample results were reported to the MDL. Results between the IDL and MDL are not summarized below.

Metals (including mercury) were not detected in the method blanks and mercury was not detected in the calibration blanks. The following table summarizes the calibration blank contaminants, the concentrations detected, and the resulting validation action.

Calibration Blank	Analyte	Blank Concentration	Validation Action
01/17/2022 @17:28	Selenium	8.7 J μg/L	Qualification was not required for the associated sample since
01/17/2022 @18:00	Selenium	8.9 J μg/L	selenium was not detected.
Associated sa	mple: DPW	-GW-01	
01/17/2022 @18:00	Selenium	8.9 J µg/L	The positive result for selenium in sample DPW-GW-02 was qualified as nondetect (U) at the QL since the result was < the QL.
01/17/2022 @18:32	Seleman	8.6 J µg/L	Qualification was not required for samples DPW-GW-04 and DPW-GW-05 since selenium was not detected.
Associated sa	mples: DPV	V-GW-02, DPW-GW	-04, DPW-GW-05
01/17/2022 @20:09	Selenium	7.8 J μg/L	Qualification was not required for the associated samples since selenium was not detected.
Associated sa	mples: DPV	V-GW-06, DPW-GW	-DUPE

MS Results

MS and/or PDS analyses were performed as follows:

- MS on samples DPW-GW-01 for all metals and DPW-GW-06 for metals (non-mercury)
- PDS on samples DPW-GW-01 for metals (non-mercury) and DPW-GW-06 for metals (non-mercury)

The table below summarizes the %Rs that did not meet the acceptance criteria (75-125% for MS, 80-120% for PDS), the associated samples, and the validation actions.

MS Sample ID	Analyte	MS %R	PDS %R	Validation Action
DPW-GW- 06	Silver	70	68	The nondetect results for silver in samples DPW-GW-02, DPW-GW-04, DPW-GW-05, DPW-GW-06, and DPW-GW-DUPE were qualified as estimated (UJ) with a potential low bias.
Associated sa	amples: DPV	V-GW-02, DPW	/-GW-04	, DPW-GW-05, DPW-GW-06, DPW-GW-DUPE



MS Sample ID	Analyte	MS %R	PDS %R	Validation Action
	Antimony	Met Criteria	127.0	Ovalification of the data was not required on this book since
	Arsenic	Met Criteria	123.3	Qualification of the data was not required on this basis since
DPW-GW-	Beryllium	Met Criteria	125.0	the MS %Rs for antimony, arsenic, beryllium, chromium,
01	Chromium	Met Criteria	124.3	copper, and nickel were within the acceptance limits; thus, the PDS %Rs by themselves were not used to evaluate sample
	Copper	Met Criteria	124.4	results.
	Nickel	Met Criteria	124.2	results.
Associated s	amples: DPV	V-GW-01, DPW	/-GW-02	, DPW-GW-04, DPW-GW-05, DPW-GW-DUPE

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on samples DPW-GW-01 for all metals and DPW-GW-06 for metals (non-mercury). All criteria were met in sample DPW-GW-01. Lead was not detected in sample DPW-GW-06 and was detected >QL in the laboratory duplicate; the absolute difference (AbsD) (8.5 μ g/L) was > the QL (5.0 μ g/L). Therefore, the nondetect results for lead in all samples in this data set except DPW-GW-01 were qualified as estimated (UJ).

Serial Dilution Results

Serial dilution analyses were performed on samples DPW-GW-01 and DPW-GW-06. All percent differences (%Ds) met the acceptance criteria of 20% except those shown in the table below.

Sample ID	Analyte	%D	Validation Action						
DPW-GW-01	Arsenic	317.2	No qualifications were required on this basis since the results for arsenic in sample DPW-GW-01 and the serial dilution analysis were < the QL.						
Associated sa	Associated samples: DPW-GW-01, DPW-GW-02, DPW-GW-04, DPW-GW-05, DPW-GW-DUPE								

LCS Results

The %Rs for all metals met the laboratory acceptance criteria of 80-120%.

Field Duplicate Results

Samples DPW-GW-06/DPW-GW-DUPE were submitted as the field duplicate pair with this data set. The following table summarizes the AbsDs of the detected results. All criteria were met.

Analyte	QLs (µg/L)	DPW-GW-06 (μg/L)	DPW-GW-DUPE (µg/L)	AbsD (μg/L)	Validation Action			
Chromium	10	1.3J	1.4 J	0.1	None; all criteria were			
Nickel	40	32.5 J	32.9 J	0.4	met.			

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5× QL
- AbsD < QL when both results are < 5× QL

Sample Results and Reported Quantitation Limits

Select metal results were reported between the MDL and QL. These results were qualified as estimated (J) in the associated samples by the laboratory. Sample calculations were spotchecked; there were no errors noted.



There were no dilutions performed on any samples in this data set.





Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-01	Lab ID: 7	70199831001	Collecte	d: 01/03/22	2 12:45	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	/lethod: EPA 2	200.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Analy	tical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 17:46	7440-36-0	
Arsenic	7.4J	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:46	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 17:46	7440-41-7	
Cadmium	0.38J	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 17:46	7440-43-9	
Chromium	5.4J	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 17:46	7440-47-3	
Copper	16.2J	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 17:46	7440-50-8	
Lead	37.4 J +	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 17:46	7439-92-1	
Nickel	21.8J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 17:46	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 17:46	7782-49-2	
Silver	ND	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 17:46	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 17:46	7440-28-0	
Zinc	120	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 17:46	7440-66-6	
245.1 Mercury	Analytical M	/lethod: EPA 2	245.1 Prepa	aration Meth	od: EP	A 245.1			
-	Pace Analy	tical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:43	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-02	Lab ID: 7	0199831002	Collecte	d: 01/03/22	2 15:50	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	lethod: EPA 2	200.7 Prepa	aration Meth	od: EP	PA 200.7			
	Pace Analyt	ical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 18:05	7440-36-0	
Arsenic	13.7	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:05	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 18:05	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 18:05	7440-43-9	
Chromium	ND	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 18:05	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 18:05	7440-50-8	
Lead	NDUJ	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 18:05	7439-92-1	
Nickel	11.5J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 18:05	7440-02-0	
Selenium	9.3J U	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 18:05	7782-49-2	
Silver	NDUJ	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 18:05	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:05	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 18:05	7440-66-6	
245.1 Mercury	Analytical M	lethod: EPA 2	45.1 Prepa	aration Meth	od: EP	PA 245.1			
-	Pace Analyt	ical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:45	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-04	Lab ID: 7	0199831003	Collecte	d: 01/04/2	2 11:50	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	ethod: EPA 2	200.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Analyt	ical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 18:08	7440-36-0	
Arsenic	7.0J	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:08	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 18:08	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 18:08	7440-43-9	
Chromium	2.0J	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 18:08	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 18:08	7440-50-8	
Lead	ND UJ	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 18:08	7439-92-1	
Nickel	22.1J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 18:08	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 18:08	7782-49-2	
Silver	NDUJ	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 18:08	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:08	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 18:08	7440-66-6	
245.1 Mercury	Analytical M	ethod: EPA 2	245.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Analyt	ical Services	- Melville						
Mercury	1.1	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:47	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-05	Lab ID: 7	0199831004	Collecte	d: 01/03/2	2 16:50	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	lethod: EPA 2	00.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Analyt	ical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/14/22 09:30	01/17/22 18:11	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:11	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/14/22 09:30	01/17/22 18:11	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/14/22 09:30	01/17/22 18:11	7440-43-9	
Chromium	1.2J	ug/L	10.0	1.1	1	01/14/22 09:30	01/17/22 18:11	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/14/22 09:30	01/17/22 18:11	7440-50-8	
Lead	NDUJ	ug/L	5.0	2.2	1	01/14/22 09:30	01/17/22 18:11	7439-92-1	
Nickel	11.9J	ug/L	40.0	4.4	1	01/14/22 09:30	01/17/22 18:11	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/14/22 09:30	01/17/22 18:11	7782-49-2	
Silver	NDUJ	ug/L	10.0	1.2	1	01/14/22 09:30	01/17/22 18:11	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/14/22 09:30	01/17/22 18:11	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/14/22 09:30	01/17/22 18:11	7440-66-6	
245.1 Mercury	Analytical M	lethod: EPA 2	45.1 Prepa	aration Meth	nod: EP	A 245.1			
-	Pace Analyt	ical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:48	7439-97-6	

REPORT OF LABORATORY ANALYSIS



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-06	Lab ID: 7	0199831005	Collecte	d: 01/04/2	2 11:35	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	lethod: EPA 2	200.7 Prepa	aration Meth	nod: EP	A 200.7			
	Pace Analyt	tical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/17/22 09:50	01/17/22 20:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/17/22 09:50	01/17/22 20:14	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/17/22 09:50	01/17/22 20:14	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/17/22 09:50	01/17/22 20:14	7440-43-9	
Chromium	1.3J	ug/L	10.0	1.1	1	01/17/22 09:50	01/17/22 20:14	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/17/22 09:50	01/17/22 20:14	7440-50-8	
Lead	NDUJ	ug/L	5.0	2.2	1	01/17/22 09:50	01/17/22 20:14	7439-92-1	
Nickel	32.5J	ug/L	40.0	4.4	1	01/17/22 09:50	01/17/22 20:14	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/17/22 09:50	01/17/22 20:14	7782-49-2	
Silver	NDUJ	ug/L	10.0	1.2	1	01/17/22 09:50	01/17/22 20:14	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/17/22 09:50	01/17/22 20:14	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/17/22 09:50	01/17/22 20:14	7440-66-6	
245.1 Mercury	Analytical M	lethod: EPA 2	245.1 Prepa	aration Meth	nod: EP	A 245.1			
	Pace Analyt	tical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:52	7439-97-6	

REPORT OF LABORATORY ANALYSIS



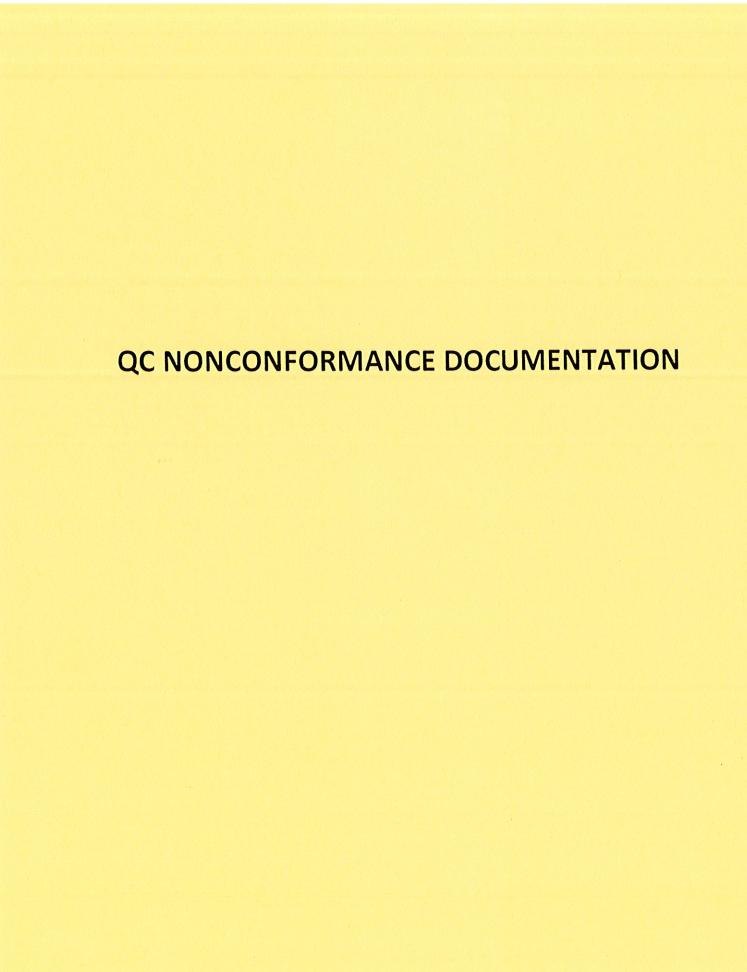
Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

Sample: DPW-GW-DUPE	Lab ID: 7	0199831006	Collecte	d: 01/03/22	2 08:00	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	lethod: EPA 2	00.7 Prepa	aration Meth	od: EP	A 200.7			
	Pace Analyt	tical Services	- Melville						
Antimony	ND	ug/L	60.0	20.8	1	01/17/22 09:50	01/17/22 20:28	7440-36-0	
Arsenic	ND	ug/L	10.0	5.3	1	01/17/22 09:50	01/17/22 20:28	7440-38-2	
Beryllium	ND	ug/L	5.0	0.33	1	01/17/22 09:50	01/17/22 20:28	7440-41-7	
Cadmium	ND	ug/L	2.5	0.31	1	01/17/22 09:50	01/17/22 20:28	7440-43-9	
Chromium	1.4J	ug/L	10.0	1.1	1	01/17/22 09:50	01/17/22 20:28	7440-47-3	
Copper	ND	ug/L	25.0	3.7	1	01/17/22 09:50	01/17/22 20:28	7440-50-8	
Lead	NDUJ	ug/L	5.0	2.2	1	01/17/22 09:50	01/17/22 20:28	7439-92-1	
Nickel	32.9J	ug/L	40.0	4.4	1	01/17/22 09:50	01/17/22 20:28	7440-02-0	
Selenium	ND	ug/L	10.0	7.1	1	01/17/22 09:50	01/17/22 20:28	7782-49-2	
Silver	NDUJ	ug/L	10.0	1.2	1	01/17/22 09:50	01/17/22 20:28	7440-22-4	
Thallium	ND	ug/L	10.0	5.3	1	01/17/22 09:50	01/17/22 20:28	7440-28-0	
Zinc	ND	ug/L	20.0	8.6	1	01/17/22 09:50	01/17/22 20:28	7440-66-6	
245.1 Mercury	Analytical M	lethod: EPA 2	45.1 Prepa	aration Meth	od: EP	A 245.1			
-	Pace Analyt	tical Services	- Melville						
Mercury	ND	ug/L	0.20	0.10	1	01/14/22 10:20	01/17/22 12:54	7439-97-6	

REPORT OF LABORATORY ANALYSIS



FORM II INORGANIC-1 CRDL CHECK STANDARD

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract: DEPEW LANDFILL SITE # 915105

CRDL Check Standard Source: 122193 Analysis Date/Time: 01/17/2022 22:29

Concentration Units: ug/L

A 1.		CRDL Chec	ck Standard	
Analyte	True	Found	%R	Control Limit %R
Antimony	60	61.7	102.8	70-130 /
Arsenic	10.0	10.2	102.0	70-130
Beryllium	5.0	5.0	100.6	70-130
Cadmium	2.5	2.6	106.0	70-130
Chromium	10.0	10.1	101.0	70-1/30
Copper	25	25.8	103.2	70-130
Lead	5.0	6.5	129.2	70-130
Nickel	40	41.6	104.0	70-130
Selenium	10.0	9.4	94.5	70-130
Silver	10.0	8.8	87.8	70-130
Thallium	10.0	8.8	88.5	70-130
Zinc	20	21.0	105.0	70-130

FORM III INORGANIC-1 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Water Instrument ID: 70ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L		Con	tinui	ing Calibration l	Blan	k (ug/L)		Method Blar	nk
	01/17/2022 16:37	С	01/17/2022	С	01/17/2022 17:28	С	01/17/2022 18:00	С	1215769	С
Antimony	5.1	U	5.1	U	5.1	U	5.1	U	ND	U
Arsenic	3.5	U	4.3	J	4.2	j	3.7	J	_ <mdl< td=""><td>U</td></mdl<>	U
Beryllium	0.024	U	0.024	U	0.024	U	0.024	U	ND	U
Cadmium	0.098	U	0,098	U	0.098	U	0.098	U	ND	U
Chromium	0.21	U	0.2/1	U	0.21	U	0.21	U	ND	U
Copper	0.95	U	0.05	U	0.95	U	0.95	U	ND	U
Lead	1.6	U	1.6	U	1.6	U	1.6	U	ND	U
Nickel	0.92	U	ø.9 2	U	0.92	U	0.92	U	ND	U
Selenium	3.7	U	8.6	J	8.7	J	8.9	J	ND	U
Silver	0.26	U	0.26	J	0.26	U	0.26	U	ND	U
Thallium	2.9	U	2.9	U	2.9	U	2.9	U	ND	U
Zinc	0.43	U	0.43	U	0.43	U	0.43	U	ND	U

FORM III INORGANIC-2 BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract : DEPEW LANDFILL SITE # 915105

Method Blank Matrix: Water Instrument ID: 70ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank		Cont	tinui	ing Calibration I	3lan	<mark>k (ug/L)</mark>		Method Blar	nk
		С	01/17/2022 18:32	С	01/17/2022	С	01/17/2022 20:09	С	1216945	С
Antimony			5.1	U	5.1	U	5.1	U	ND	U
Arsenic			3.5	U	4.4	J	3.5	U	<mdl nd<="" td=""><td>U</td></mdl>	U
Beryllium			0.024	U	0.024	U	0.024	U	ND	U
Cadmium			0.098	U	0.098	С	0.098	U	ND	U
Chromium			0.21	U	0.2	U	0.21	U	ND	U
Copper			0.95	U	0.95	С	0.95	U	ND	U
Lead			1.6	U	1/.6	С	1.6	U	ND	U
Nickel			0.92	U	0.92	U	0.92	U	ND	U
Selenium			8.6	J	8.1	J	7.8	J	ND	U
Silver			0.26	J	0.26	U	0.37	J	ND	U
Thallium			2.9	U	2.9	U	2.9	U	ND	U
Zinc			0.43	U	0.43	U	0.43	U	ND	U



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

MATRIX SPIKE SAMPLE:	1216948						
		70199831005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Copper	 ug/L	ND	500	492	98	70-130	
Lead	ug/L	ND	500	450	90	70-130	
Nickel	ug/L	32.5J	500	539	101	70-130	
Selenium	ug/L	ND	500	472	94	70-130	
Silver	ug/L	ND	250	176	70	70-130	
Thallium	ug/L	ND	250	267	107	70-130	
Zinc	ug/L	ND	500	496	98	70-130	

MATRIX SPIKE SAMPLE:	1216950 DP\	N-GW-06 70200272002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	ug/L	<60.0	1000	1060	106	70-130	
Arsenic	ug/L	10.5	500	520	102	70-130	
Beryllium	ug/L	<5.0	500	511	102	70-130	
Cadmium	ug/L	<2.5	500	486	97	70-130	
Chromium	ug/L	<10.0	500	515	103	70-130	
Copper	ug/L	<25.0	500	502	100	70-130	
Lead	ug/L	<5.0	500	452	89	70-130	
Nickel	ug/L	<40.0	500	522	103	70-130	
Selenium	ug/L	<10.0	500	482	96	70-130	
Silver	ug/L	<10.0	250	174	70	70-130	75-125
Thallium	ug/L	<10.0	250	252	100	70-130	
Zinc	ug/L	<20.0	500	503	101	70-130	

SAMPLE DUPLICATE: 1216947						
		70199831005	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Antimony	ug/L		ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	1.3J	1.3J		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	13.5		20	
Nickel	ug/L	32.5J	32.6J		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

SAMPLE NO.

FORM V INORGANIC-2 POST-DIGESTION SPIKE SAMPLE RECOVERY

1216052PDS

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Water Parent Sample ID: DPW-GW-01

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1270	1	20.8U	1000	127.0*
Arsenic	ug/L	85-115	1	624	1	7.4J	500	123.3*
Beryllium	ug/L	85-115	1	625	1	0.33U	500	125.0*
Cadmium	ug/L	85-115	1	592	1	0.38J	500	118.3*
Chromium	ug/L	85-115	1	627	1	5.4J	500	124.3*
Copper	ug/L	85-115	1	638	1	16.2J	500	124.4*
Lead	ug/L	85-115	1	588	1	37.4	500	110.1
Nickel	ug/L	85-115	1	643	1	21.8J	500	124.2*
Selenium	ug/L	85-115	1	587	1	7.1U	500	117.4*
Silver	ug/L	85-115	1	216	1	1.2U	250	86.4
Thallium	ug/L	85-115	1	291	1	5.3U	250	116.3*
Zinc	ug/L	85-115	1	714	1	120	500	118.8*

SAMPLE NO.

FORM V INORGANIC-1 POST-DIGESTION SPIKE SAMPLE RECOVERY

1217175PDS

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Water Parent Sample ID: DPW-GW-06

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	85-115	1	1070	1	20.8U	1000	107.0
Arsenic	ug/L	85-115	1	519	1	5.3U	500	103.8
Beryllium	ug/L	85-115	1	520	1	0.33U	500	104.0
Cadmium	ug/L	85-115	1	491	1	0.31U	500	98.2
Chromium	ug/L	85-115	1	523	1	1.3J	500	104.3
Copper	ug/L	85-115	1	505	1	3.7U	500	101.0
Lead	ug/L	85-115	1	454	1	2.2U	500	90.8
Nickel	ug/L	85-115	1	552	1	32.5J	500	103.9
Selenium	ug/L	85-115	1	482	1	7.1U	500	96.4
Silver	ug/L	85-115	1	170	1	1.2U	250	68.0*
Thallium	ug/L	85-115	1	238	1	5.3U	250	95.3
Zinc	ug/L	85-115	1	509	1	8.6U	500	101.8



Project: DEPEW LANDFILL SITE # 915105

Pace Project No.: 70199831

Date: 02/22/2022 04:56 PM

MATRIX SPIKE SAMPLE:	1216948						
		70199831005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Copper	 ug/L	ND	500	492	98	70-130	
Lead	ug/L	ND	500	450	90	70-130	
Nickel	ug/L	32.5J	500	539	101	70-130	
Selenium	ug/L	ND	500	472	94	70-130	
Silver	ug/L	ND	250	176	70	70-130	
Thallium	ug/L	ND	250	267	107	70-130	
Zinc	ug/L	ND	500	496	98	70-130	

MATRIX SPIKE SAMPLE:	1216950						
		70200272002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	 ug/L	<60.0	1000	1060	106	70-130	
Arsenic	ug/L	10.5	500	520	102	70-130	
Beryllium	ug/L	<5.0	500	511	102	70-130	
Cadmium	ug/L	<2.5	500	486	97	70-130	
Chromium	ug/L	<10.0	500	515	103	70-130	
Copper	ug/L	<25.0	500	502	100	70-130	
Lead	ug/L	<5.0	500	452	89	70-130	
Nickel	ug/L	<40.0	500	522	103	70-130	
Selenium	ug/L	<10.0	500	482	96	70-130	
Silver	ug/L	<10.0	250	174	70	70-130	
Thallium	ug/L	<10.0	250	252	100	70-130	
Zinc	ug/L	<20.0	500	503	101	70-130	

SAMPLE DUPLICATE: 1216947	DPW-GW-06	70199831005	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND	20		
Chromium	ug/L	1.3J	1.3J		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	13.5		20	
Nickel	ug/L	32.5J	32.6J		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

SAMPLE NO.

FORM VIII INORGANIC-2 SERIAL DILUTIONS

1216053SD

Lab Name: Pace Analytical - New York SDG No. : 70199831 Contract: DEPEW LANDFILL SITE # 915105

Matrix: Water Parent Sample ID: DPW-GW-01

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	20.8U	104U		10
Arsenic	ug/L	7.4J	30.8J	317.2*	10
Beryllium	ug/L	0.33U	1.7U		10
Cadmium	ug/L	0.38J	1.5U		10
Chromium	ug/L	5.4J	5.6U		10
Copper	ug/L	16.2J	18.4U		10
Lead	ug/L	37.4	36.4	2.5	10
Nickel	ug/L	21.8J	22.1U		10
Selenium	ug/L	7.1U	63.5		10
Silver	ug/L	1.2U	6.2U		10
Thallium	ug/L	5.3U	26.4U		10
Zinc	ug/L	120	118	1.2	10

^{*} Indicates that the % Difference exceeds the control limit. No difference is calculated if either result is a non-detect. 02/28/2022 10:54