

Second 2022 Semiannual Water Quality Monitoring Report

Lena Road Landfill

Manatee County Utilities Department
Solid Waste Division
3333 Lena Road
Bradenton, Florida 34211

SCS ENGINEERS

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This item has been digitally signed and sealed Donna Beares, P.G. on the date adjacent to the seal.

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1 INTRODUCTION

This report, prepared by SCS Engineers (SCS) on behalf of Manatee County Utilities Department, presents the results of the second semiannual 2022 groundwater event at the Lena Road Landfill (LRL) conducted in November 2022.

LOCATION

The LRL is located in Section 27, Township 33 South, Range 18 East, in northern Manatee County (**Figure 1**). The facility is located at 3333 Lena Road, Bradenton, Florida, and encompasses 316 acres of disposal areas, related landfill facilities, and is constructed with a perimeter slurry wall. The facility site plan and groundwater monitoring well locations are presented in **Figure 2** and a monitoring well construction table is presented in **Table 1**.

GROUNDWATER AND SURFACE WATER MONITORING PROGRAM

This report was prepared in accordance with Florida Department of Environmental Protection (FDEP) Permit No. 39884-021-SO-01, Water Quality Monitoring Plan (Appendix 3); FDEP Standard Operating Procedures (Chapter 62-160, Florida Administrative Code [FAC]); and FDEP Solid Waste Water Quality Monitoring Requirements (Chapter 62-701.510(8)(a) FAC).

2 LANDFILL MONITORING PROGRAM

According to the LRL's FDEP permit, the landfill monitoring program consists of monitoring groundwater quality within the surficial aquifer and monitoring surface water quality at the LRL facility.

GROUNDWATER MONITORING PROGRAM

The groundwater within the surficial aquifer is currently monitored at 26 groundwater monitoring wells (GW-3 through GW-27R and BGW-1). Monitoring well BGW-1 is the designated background monitoring well for the facility and the remaining monitoring wells are classified as detection wells. The permit requires semiannual sampling of the monitoring wells for the unfiltered field and laboratory parameters listed below.

Field Parameters

- Static water level in wells before purging
- Dissolved oxygen (DO)
- pH
- Specific conductance
- Temperature
- Turbidity
- Colors and sheens (by observation)

Laboratory Parameters

- Total ammonia – nitrogen
- Chlorides
- Iron
- Mercury

- Nitrate
- Sodium
- Total Dissolved Solids (TDS)
- Parameters listed in 40 Code of Federal Regulations (CFR) Part 258, Appendix I

SURFACE WATER MONITORING PROGRAM

The surface water monitoring sites include one downstream location (SW-1) and one upstream location (SW-2). The surface water sampling locations are shown on **Figure 2**. Electronic water level monitoring devices have been installed at the pump stations, located in the East Lake and the South Lake, and are used to measure water levels at the surface water bodies at the LRL.

Surface water monitoring locations are sampled semiannually for the following unfiltered field and laboratory parameters listed below.

Field Parameters

- Surface water elevation
- Specific conductance
- pH
- DO
- Turbidity
- Temperature
- Colors and sheens (by observation)

Laboratory Parameters

- Un-ionized ammonia as nitrogen
- Total hardness (as CaCO₃)
- Biochemical oxygen demand (BOD₅)
- Iron
- Mercury
- Nitrate
- TDS
- Total organic carbon (TOC)
- Fecal coliform
- Total phosphorus as P
- Chlorophyll A
- Total nitrogen
- Chemical oxygen demand (COD)
- Total suspended solids (TSS)
- Parameters listed in 40 CFR 258, Appendix I

3 GROUNDWATER QUALITY MONITORING SUMMARY

GROUNDWATER FLOW ASSESSMENT

The groundwater flow direction in the surficial aquifer was evaluated using the groundwater elevation data collected from LRL monitoring wells during the November 2022 semiannual sampling event. This groundwater flow evaluation included collecting depth to groundwater measurements, calculating groundwater elevations, and production of a site figure depicting groundwater elevation contours and estimated groundwater flow direction. **Table 2** lists monitoring well numbers, measured depths to water, and calculated groundwater elevations for the November 2022 semiannual sampling event. **Figure 3** shows groundwater potentiometric contours interpolated from the water level data collected outside and immediately adjacent to the slurry wall. Based on the November 2022 groundwater contour map, groundwater flow direction is generally toward the north and west, which is consistent with previous groundwater flow evaluations.

GROUNDWATER SAMPLE COLLECTION

Pace Analytical Services, LLC (Pace), located in Oldsmar, Florida, is certified through the Florida Department of Health Environmental Laboratory Certification Program, the National Environmental Laboratory Accreditation Program accrediting authority in Florida. Pace collected the groundwater samples at the LRL facility on November 14 through 17, 2022 in accordance with FDEP Quality Assurance Rules (Chapter 62-160, FAC) and FDEP Standard Operating Procedures (SOPs) (DEP-SOP-001/01), as required by the permit. However, monitoring wells GW-4, GW-9, and GW-20 were sampled outside of the FDEP SOPs and as a result, Pace re-collected the samples on December 29, 2022. Additionally, monitoring wells GW-10, GW-10A, and GW-12 were resampled on December 30, 2022 for select parameters based on elevated concentrations reported at the time of collection.

GROUNDWATER QUALITY AND ANALYTICAL RESULTS

A summary of the detected groundwater monitoring results is presented in **Table 3**. In accordance with Chapter 62-701, FAC, groundwater results were compared to the Primary Drinking Water Standards (PDWS) and Secondary Drinking Water Standards (SDWS) Maximum Contaminant Levels (MCL) established in Chapter 62-550, FAC and incorporated via reference in Chapter 62-520, FAC. Chapter 62-777, FAC states that the Groundwater Cleanup Target Levels (GCTLs) are default cleanup criteria that apply to site rehabilitation and they are not to be construed to create any new water quality standards pursuant to Chapters 62-302, 62-520, or 62-550, FAC (see Rules 62-777.150(7) and 62-777.170(1)(a) and (b), FAC). Furthermore, per Rule 62-701.510(6)(c)2, FAC, CTLs (only incorporated into Chapter 62-701, FAC via reference to Chapter 62-780, FAC in Rule 62-701.510(7)(c), FAC) are only applicable to solid waste facilities outside of the zone of discharge. Therefore, comparison of the water quality results to GCTLs is not applicable and is not generally provided in this report.

Analysis of groundwater samples included parameters listed in Rule 62-701.730(8)(c), FAC, as required by Specific Condition D (Water Quality Monitoring Plan) of the Permit. Semiannual reporting of the groundwater sampling results is performed in accordance with Rule 62-701, FAC. The Water Quality Monitoring Certification, FDEP Form 62-701.900(31), prepared in accordance with Rule 62-701.510(8)(a), FAC, is presented in **Appendix A**. A copy of the analytical reports is presented in **Appendix B**. The following parameters were exceeded during the November 2022 semiannual sampling event and are listed in **Table 3**.

Field Parameters

The pH readings for groundwater samples were generally within the SDWS of 6.5-8.5 Standard Units (SU) with the exception of monitoring wells, GW-17, GW-21, GW-22, and GW-26 which ranged from 5.91-6.42 SU. The pH values for GW-17 and GW-26 show a positive trend toward the SDWS criteria of 6.5 SU while GW-21 and GW-22 remain relatively stable and within the historic range.

Arsenic

Arsenic was detected at a concentration exceeding the PDWS MCL of 10 micrograms per liter ($\mu\text{g/L}$) in the samples collected from monitoring wells GW-10 (106 $\mu\text{g/L}$), GW-10A (38.7 $\mu\text{g/L}$), and GW-12 (11.7 $\mu\text{g/L}$). Subsequently, confirmation samples were collected from the monitoring wells on December 30, 2022. While the re-sampled arsenic concentrations in GW-10 and GW-10A were reported above the PDWS MCL, the concentrations decreased to 20.1 $\mu\text{g/L}$ and 29.5 $\mu\text{g/L}$, respectively. The re-sampled arsenic concentration in GW-12 was reported below the PDWS MCL at 8.3 $\mu\text{g/L}$. Arsenic concentrations at GW-10 and GW-10A have historically fluctuated and these results are consistent with historical data.

Iron

Iron was detected at concentrations exceeding the SDWS MCL of 300 $\mu\text{g/L}$ in 21 of the 26 monitoring wells sampled. The iron concentration in GW-10 (14,500 $\mu\text{g/L}$) was considered above the normal range and was subsequently re-sampled on December 30, 2022. The re-sampled iron concentration in GW-10 decreased to 13,000 $\mu\text{g/L}$; however, this concentration is considered above the average historical range. The iron concentration in the remaining monitoring wells have historically fluctuated and were generally consistent with historical data.

Selenium

The selenium concentration in BGW-1 was reported as 69.1 $\mu\text{g/L}$, above the PDWS MCL of 50 $\mu\text{g/L}$. Historically, this concentration is below the maximum reported concentration of 99 $\mu\text{g/L}$ sampled on September 13, 2011.

Total Dissolved Solids

The TDS concentrations exceeded the SDWS MCL of 500 mg/L in monitoring wells BGW-1, GW-6, GW-13, and GW-16. However, the TDS concentration reported in BGW-1 (535 mg/L) is considered to be above the average historical concentration, and will be monitored during the next semiannual sampling event in May 2023.

4 SURFACE WATER QUALITY MONITORING SUMMARY

Surface water quality standards applicable to the site are listed in Chapter 62-302.530, FAC Class III Surface Water Quality Standards (SWQS). **Table 4** lists the detections at surface water locations SW-1 and SW-2.

SURFACE WATER SAMPLE COLLECTION

Pace collected the surface water samples in accordance with the LRL permit on November 17, 2022. Additionally, SW-2 was re-sampled on December 30, 2022, due to a reported elevated arsenic concentration.

SURFACE WATER QUALITY AND ANALYTICAL RESULTS

The following parameters were exceeded during the November 17, 2022 semiannual sampling event and are listed in **Table 4. Appendix A** includes the laboratory analytical reports and field forms for surface water sampling at locations SW-1 and SW-2.

Field Parameters

The DO measurements at the surface water upstream location SW-2 were lower than the Class III SWQS criteria of greater than 5.0 mg/L, but are consistent with historical values.

Field turbidity was above the SWQS criteria of 29 NTUs at surface water upstream location SW-2 during the November 17, 2022 sampling event; however, the re-sampled turbidity on December 30, 2022 was below the SWQS.

Arsenic

Arsenic was detected in the surface water upstream location SW-2 (139 µg/L) at a concentration above the SWQS criteria of 50 µg/L. Accordingly, a confirmation sample was collected on December 30, 2022 and the arsenic concentration was reported below the SWQS criteria at 27.4 µg/L.

Iron

Iron was detected at a concentration above the SWQS criteria of 1,000 µg/L in the upstream sample location SW-2 during the November 17, 2022 sampling event. The iron concentration in SW-2 (8,310 µg/L) was elevated but is considered within the historical data range for this surface water location.

5 CONCLUSION

The information provided in this report indicates the following groundwater quality and surface water quality standards were exceeded during the November 2022 semiannual sampling event.

- Two groundwater monitoring wells exceeded the PDWS MCL for arsenic and one groundwater monitoring well exceeded the PDWS MCL for selenium. All other parameters analyzed were below the PDWS MCLs.
- The SDWS MCLs for Iron, TDS, and pH were exceeded in several groundwater monitoring wells; however, these results are consistent with historical data for the facility. The pH values for GW-17 and GW-26 show a positive trend toward the SDWS criteria of 6.5 while GW-21 and GW-22 remain relatively stable and within the historic range.
- The upstream surface water location SW-2 exceeded the SWQS for Iron and was below the 5.0 mg/L criteria for DO; however, the reported concentrations are considered within the historical range.

Manatee County will continue to perform routine semiannual monitoring in general accordance with the facility's permit.

Figures

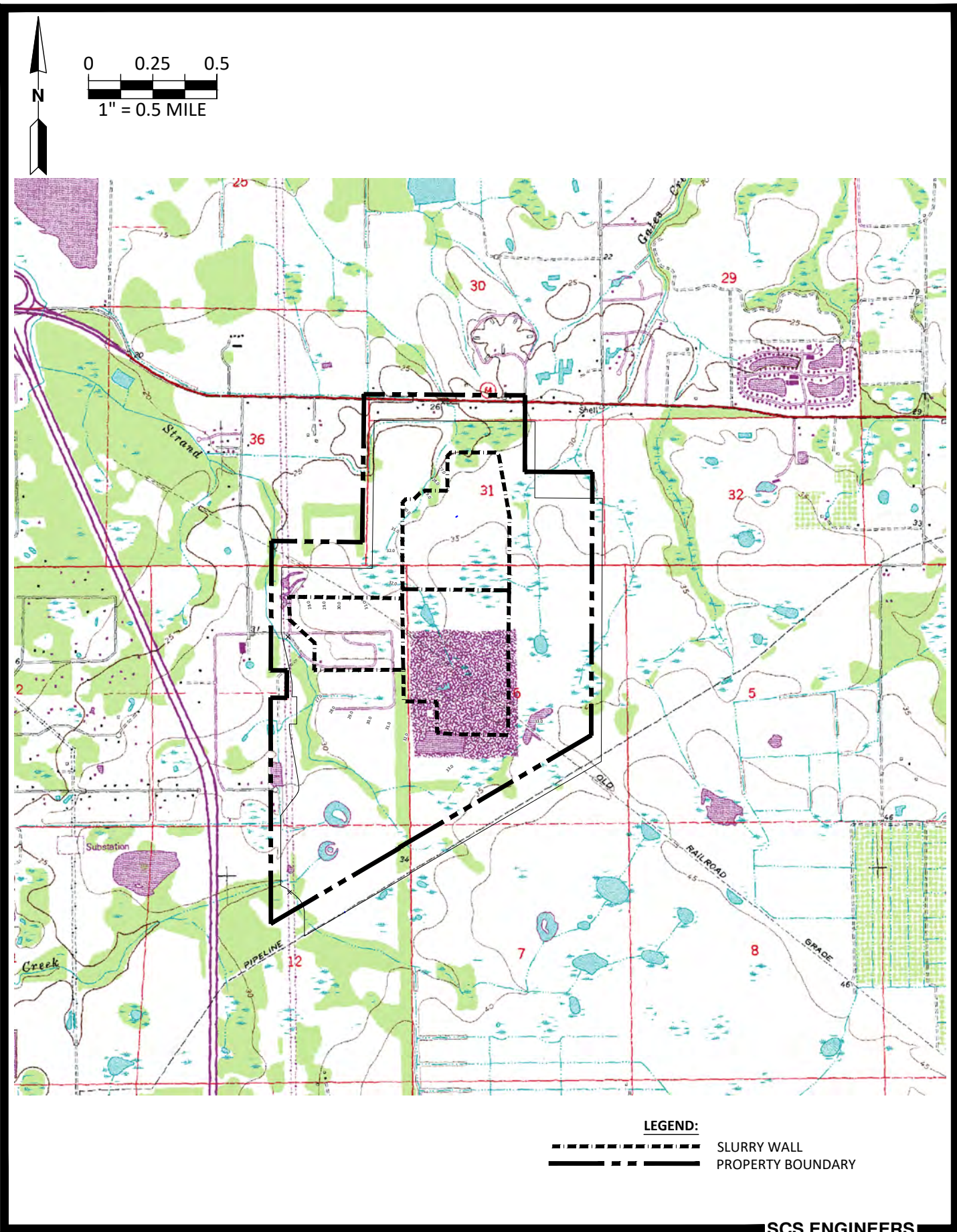


FIGURE 1. LOCATION MAP
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

\\TAM-FS01\Tampa\Files\PROJECT\0921 088.2\Drawings\Figures\Nov 2021\09217088.24_Nov2021.dwg Oct 21, 2022 - 1:46pm Layout Name: 1-2 site map By: 4310haw

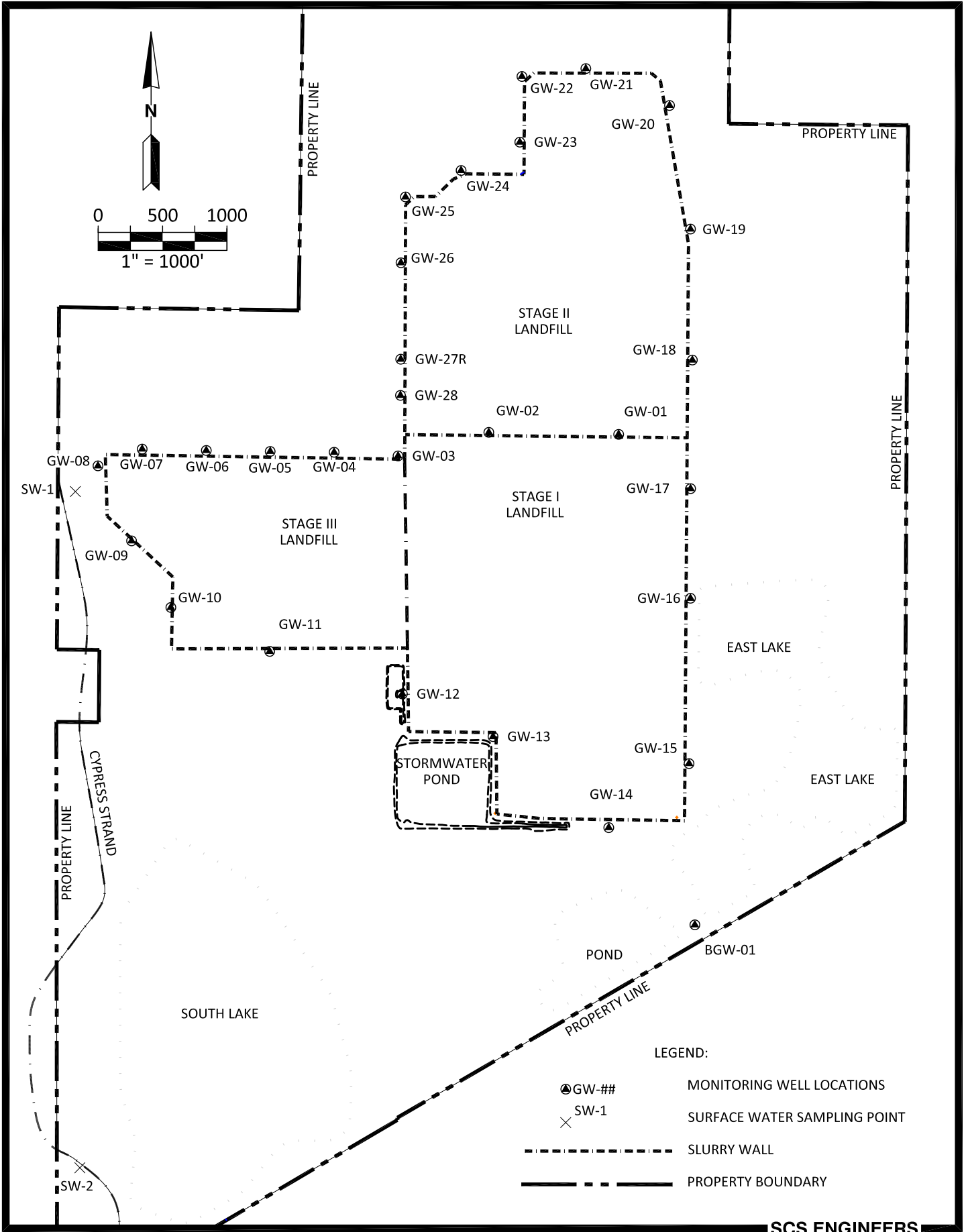


FIGURE 2. SITE MAP
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

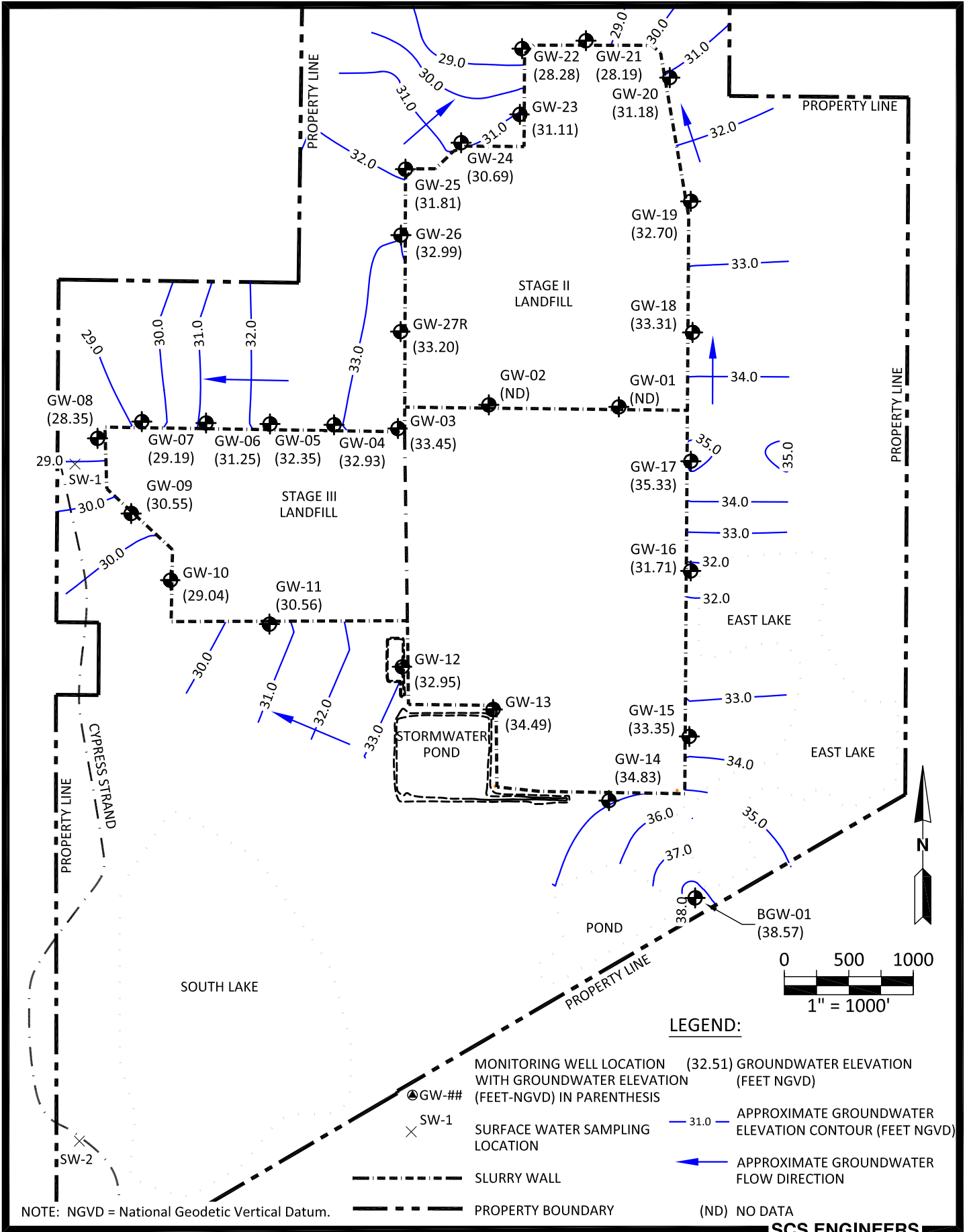


FIGURE 3. NOVEMBER 2022 SHALLOW SURFICIAL AQUIFER GROUNDWATER CONTOUR MAP
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

Tables

TABLE 1. EXISTING MONITORING WELL LOCATIONS AND CONSTRUCTION DETAILS, LENA ROAD LANDFILL, MANATEE COUNTY, FLORIDA

WACS ID	Water Quality Monitoring Site ID	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Well Diameter (inches)	Screen Slot Size (inch)	Screen Length (feet)	Top of Screen (Feet BTOC)	Bottom of Screen (Feet BTOC)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
21593	GW-1	DE	Surficial	38.68	2	0.010	15	3.92	18.92	34.76	19.76	1141555.84	514101.29	27° 28' 24.676"	82° 26' 17.304"
21594	GW-2	DE	Surficial	40.92	2	0.010	15	3.91	18.91	37.01	22.01	1141565.32	512079.53	27° 28' 24.698"	82° 26' 39.751"
21595	GW-3	DE	Surficial	39.40	2	0.010	15	4.06	19.06	35.34	20.34	1141382.25	511374.68	27° 28' 22.860"	82° 26' 47.569"
21596	GW-4	DE	Surficial	40.53	2	0.010	15	4.13	19.13	36.40	21.40	1141410.65	510878.61	27° 28' 23.124"	82° 26' 53.078"
21597	GW-5	DE	Surficial	39.90	2	0.010	15	4.16	19.16	35.74	20.74	1141415.37	510383.90	27° 28' 23.153"	82° 26' 58.570"
21598	GW-6	DE	Surficial	38.95	2	0.010	15	4.04	19.04	34.91	19.91	1141424.68	509886.01	27° 28' 23.227"	82° 27' 04.099"
21599	GW-7	DE	Surficial	39.49	2	0.010	15	5.04	20.04	34.45	19.45	1141435.59	509387.99	27° 28' 23.318"	82° 27' 09.628"
21600	GW-8	DE	Surficial	39.75	2	0.010	15	4.82	19.82	34.93	19.93	1141305.40	509044.79	27° 28' 22.016"	82° 27' 13.433"
21601	GW-9	DE	Surficial	39.65	2	0.010	15	5.06	20.06	34.59	19.59	1140722.84	509305.79	27° 28' 16.256"	82° 27' 10.512"
21602	GW-10	DE	Surficial	38.34	2	0.010	15	4.65	19.65	33.69	18.69	1140206.62	509611.46	27° 28' 11.156"	82° 27' 07.098"
21603	GW-11	DE	Surficial	38.26	2	0.010	15	6.11	21.11	32.15	17.15	1139864.83	510378.37	27° 28' 07.799"	82° 26' 58.570"
21604	GW-12	DE	Surficial	42.09	2	0.010	15	4.77	19.77	37.32	22.32	1139527.51	511409.94	27° 28' 04.495"	82° 26' 47.104"
21605	GW-13	DE	Surficial	44.79	2	0.010	15	4.72	19.72	40.07	25.07	1139203.08	512112.46	27° 28' 01.307"	82° 26' 39.292"
21606	GW-14	DE	Surficial	39.63	2	0.010	15	4.65	19.65	34.98	19.98	1138496.26	513011.13	27° 28' 54.339"	82° 26' 29.287"
21607	GW-15	DE	Surficial	42.33	2	0.010	15	4.50	19.50	37.83	22.83	1138992.94	513634.35	27° 27' 59.280"	82° 26' 22.388"
21608	GW-16	DE	Surficial	44.41	2	0.010	15	4.65	19.65	39.76	24.76	1140276.77	513645.17	27° 28' 11.994"	82° 26' 22.318"
21609	GW-17	DE	Surficial	42.19	2	0.010	15	5.30	20.30	36.89	21.89	1141976.95	513542.64	27° 28' 28.826"	82° 26' 23.523"
27495	GW-18	DE	Surficial	41.76	2	0.010	14.5	9.26	24.26	32.5	17.5	1142169.68	513662.64	27° 28' 30.739"	82° 26' 22.199"
27496	GW-19	DE	Surficial	41.20	2	0.010	14.5	10.7	25.7	30.5	15.5	1143144.92	513646.150	27° 28' 40.396"	82° 26' 22.420"
27497	GW-20	DE	Surficial	41.00	2	0.010	14.5	8.5	23.5	32.5	17.5	1144104.750	513482.920	27° 28' 49.895"	82° 26' 24.270"
27498	GW-21	DE	Surficial	40.94	2	0.010	14.5	8.44	23.44	32.5	17.5	1144390.55	512833.490	27° 28' 52.702"	82° 26' 31.492"
27499	GW-22	DE	Surficial	41.53	2	0.010	14.5	8.03	23.03	33.5	18.5	1144329.50	512336.37	27° 28' 52.080"	82° 26' 37.009"
27500	GW-23	DE	Surficial	40.91	2	0.010	14.5	7.41	22.41	33.5	18.5	1143811.98	512321.55	27° 28' 46.955"	82° 26' 37.153"
27501	GW-24	DE	Surficial	41.37	2	0.010	14.5	6.87	21.87	34.5	19.5	1143598.33	511865.48	27° 28' 44.823"	82° 26' 42.209"
27502	GW-25	DE	Surficial	41.11	2	0.010	14.5	6.61	21.61	34.5	19.5	1143393.13	511433.06	27° 28' 42.776"	82° 26' 47.001"
27503	GW-26	DE	Surficial	41.44	2	0.010	14.5	8.94	23.94	32.5	17.5	1142883.01	511397.49	27° 28' 37.723"	82° 26' 47.376"
27504	GW-27R	DE	Surficial	40.90	2	0.010	14.5	7.4	22.4	33.5	18.5	1142133.55	511396.54	27° 28' 30.301"	82° 26' 47.357"
21610	BGW-1	BG	Surficial	47.57	2	0.010	15	4.8	19.8	42.77	27.77	1137577.96	513559.24	27° 27' 45.265"	82° 26' 23.166"

- Notes:
1. Well information was obtained from Atkins.
 2. NGVD = National Geodetic Vertical Datum of 1929.
 3. NAD 1983 = North American Datum of 1983.
 4. WACS = State Water Assurance Compliance System.
 5. BTOC = Below Top of Casing.
 6. DE = Detection.
 7. BG = Background.

Table 2. Groundwater Elevation Measurements, Nov 2022
Lena Road Landfill, Manatee County, Florida

Location ID	Top of Casing Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	Nov 2022 Groundwater Elevation (Feet NGVD)
GW-1	38.68	ND	ND
GW-2	40.92	ND	ND
GW-3	39.40	5.95	33.45
GW-4	40.53	7.60	32.93
GW-5	39.90	7.55	32.35
GW-6	38.95	7.70	31.25
GW-7	39.49	10.30	29.19
GW-8	39.75	11.40	28.35
GW-9	39.65	9.10	30.55
GW-10	38.34	9.30	29.04
GW-11	38.26	7.70	30.56
GW-12	42.09	9.14	32.95
GW-13	44.79	10.30	34.49
GW-14	39.63	4.80	34.83
GW-15	42.33	8.98	33.35
GW-16	44.41	12.70	31.71
GW-17	42.19	6.86	35.33
GW-18	41.76	8.45	33.31
GW-19	41.20	8.50	32.70
GW-20	41.00	9.82	31.18
GW-21	40.94	12.75	28.19
GW-22	41.53	13.25	28.28
GW-23	40.91	9.80	31.11
GW-24	41.37	10.68	30.69
GW-25	41.11	9.30	31.81
GW-26	41.44	8.45	32.99
GW-27R	40.90	7.70	33.20
BGW-1	47.57	9.00	38.57

Notes:

NGVD = National Geodetic Vertical Datum

ND = No Data

Table 3. Summary of Detected Groundwater Monitoring Results
Lena Road Landfill November 2022

Parameter	Standard	MCL	Units	BGW-1	GW-3	GW-4	GW-4 RESAMPLE	GW-5	GW-6	GW-7	GW-8	GW-9	GW-9 RESAMPLE	GW-10	GW-10 RESAMPLE
Volatile Organic Compounds															
Acetone	NS	NS	ug/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	99.2	8.7 U	NA
Metals															
Antimony	PDWS	6	ug/L	3.3	0.58 I	0.50 U	0.50 U	0.53 I	0.65 I	0.50 U	0.52 I	0.50 U	0.50 U	0.50 U	NA
Arsenic	PDWS	10	ug/L	2.4	1.8	1.6	2.1	1.3	3.7	5.7	4.7	3.1	1.4	106	20.1
Barium	PDWS	2000	ug/L	20.3	14.5	12.4	14.6	13.7	21.3	12.1	17.7	5.8 I	11.6	23.3	NA
Chromium	PDWS	100	ug/L	1.7 U	1.7 U	1.7 U	2.3 I	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	NA
Cobalt	NS	NS	ug/L	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	NA
Copper	SDWS	1000	ug/L	2.6 U	2.7 I	2.8 I	2.6 U	3.1 I	3.9 I	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	NA
Iron	SDWS	300	ug/L	133	188	593	1810	594	460	871	45.6	536	459	14500	13000
Lead	PDWS	15	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.48 I	NA
Mercury	PDWS	2	ug/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.60	NA
Nickel	NS	NS	ug/L	2.7 I	1.5 I	1.8 I	1.0 U	2.6 I	2.9 I	1.7 I	1.1 I	1.0 U	1.0 U	1.6 I	NA
Selenium	PDWS	50	ug/L	69.1	4.1	1.3 I	1.5 I	1.6 I	3.1	1.1 I	0.69 I	0.23 I	0.57 I	1.4 I	NA
Sodium	PDWS	160	mg/L	8.6	7.4	3.2	4.3	8.7	3.8	11.8	19.1	1.6 I	3.1	5.4	NA
Thallium	PDWS	2	ug/L	0.19 I	0.11 U	0.11 U	0.11 U	0.11 U	0.42 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	NA
Vanadium	NS	NS	ug/L	38.5	9.2 I	10.4	7.1 I	15.2	10.5	3.8 I	2.1 I	6.0 I	8.9 I	40.4	NA
Zinc	SDWS	5000	ug/L	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	26.8	NA
General Chemistry															
Chloride	SDWS	250	mg/L	13.7	19.1	6.7	9.2	13.5	5.7	12.9	18.0	5.5	5.1	6.9	NA
Nitrogen, Ammonia	NS	NS	mg/L	0.035 U	0.12	0.16	0.68	0.24	1.2	0.23	0.62	0.30	1.4	0.87	NA
Nitrogen, Nitrate	PDWS	10	mg/L	4.6	0.91	0.025 U	0.025 U	0.041 I	0.047 I	0.025 U	0.025 U	0.025 U	0.025 U	0.090	NA
Total Dissolved Solids	SDWS	500	mg/L	535	411	234	230	388	792	349	380	180	185	395	NA
Field Parameters															
Field pH	SDWS	6.5 - 8.5	SU	6.99	6.99	6.70	6.71	6.95	6.94	6.69	6.75	6.58	6.84	7.12	7.01
Field Specific Conductance	NS	NS	umhos/cm	839	650	365.7	450.1	470.0	1184	521	587	305.7	380.1	703	744
Field Temperature	NS	NS	deg C	25.3	27.0	26.7	21.7	26.9	26.0	26.6	25.9	26.9	21.0	26.0	21.4
Oxygen, Dissolved	NS	NS	mg/L	0.83	1.08	1.64	1.8	1.29	1.74	1.76	1.86	1.54	2.08	1.31	0.85
Turbidity	NS	NS	NTU	1.98	2.00	3.86	3.47	2.51	1.89	3.31	1.87	3.05	8.4	7.95	8.54

Notes:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. NS = No numeric standard has been set for this analyte.
4. NA = Not Analyzed
5. mg/L = milligrams per liter
6. ug/L = micrograms per liter
7. umhos/cm = micromhos per centimeter
8. SU = standard units
9. Deg C = degrees Celsius
10. NTU = nephelometric turbidity units
11. Yellow shaded values indicate parameter concentrations exceeded the PDWS or SDWS.
12. U = Analyte concentration was below the laboratory detection limit (value shown).
13. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
14. MCL = Maximum Contaminant Level
15. BGW-1 = Designated Background Monitoring Well

Table 3. Summary of Detected Groundwater Monitoring Results
Lena Road Landfill November 2022

Parameter	Standard	MCL	Units	GW-10A	GW-10A RESAMPLE	GW-11	GW-12	GW-12 RESAMPLE	GW-13	GW-14	GW-15	GW-16	GW-17	GW-18	GW-19
Volatile Organic Compounds															
Acetone	NS	NS	ug/L	NA	NA	8.7 U	8.7 U	NA	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Metals															
Antimony	PDWS	6	ug/L	0.50 U	NA	3.8	2.3	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arsenic	PDWS	10	ug/L	38.7	29.5	4.9	11.7	8.3	10.2	1.1	4.2	1.0	4.5	1.7	5.3
Barium	PDWS	2000	ug/L	NA	NA	18.4	43.0	NA	28.3	32.7	45.7	29.8	6.7 I	18.7	17.7
Chromium	PDWS	100	ug/L	NA	NA	1.7 U	1.7 U	NA	1.7 U	1.7 U	6.6	1.7 U	5.2	1.7 U	1.7 U
Cobalt	NS	NS	ug/L	NA	NA	0.96 U	1.5 I	NA	0.96 U	0.96 U	1.2 I	0.96 U	0.96 U	0.96 U	0.96 U
Copper	SDWS	1000	ug/L	NA	NA	2.6 U	2.6 U	NA	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	3.1 I	2.6 U
Iron	SDWS	300	ug/L	NA	NA	189	2210	NA	6070	727	15700	50.2	11200	254	1150
Lead	PDWS	15	ug/L	0.22 U	NA	0.32 I	0.22 U	NA	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Mercury	PDWS	2	ug/L	NA	NA	0.10 I	0.11 I	NA	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Nickel	NS	NS	ug/L	NA	NA	1.0 U	1.2 I	NA	1.0 U	1.0 U	2.4 I	4.1 I	1.0 U	1.6 I	1.6 I
Selenium	PDWS	50	ug/L	0.28 I	NA	0.35 I	1.8 I	NA	1.2 I	1.5 I	0.62 I	0.64 I	1.5 I	0.85 I	0.44 I
Sodium	PDWS	160	mg/L	NA	NA	15.8	9.1	NA	12.9	4.3	38.5	43.4	5.2	4.8	4.2
Thallium	PDWS	2	ug/L	0.11 U	NA	0.11 U	0.16 I	NA	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Vanadium	NS	NS	ug/L	NA	NA	3.9 I	42.2	NA	7.1 I	1.0 U	39.9	6.2 I	19.6	4.8 I	2.5 I
Zinc	SDWS	5000	ug/L	NA	NA	27.0	73.6	NA	11.0 U	26.9	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
General Chemistry															
Chloride	SDWS	250	mg/L	NA	NA	23.4	8.2	NA	13.6	4.1 I	46.6	81.1	9.8	12.1	22.9
Nitrogen, Ammonia	NS	NS	mg/L	NA	NA	0.10	1.3	NA	3.9	0.41	0.82	1.5	1.1	0.32	0.24
Nitrogen, Nitrate	PDWS	10	mg/L	NA	NA	0.048 I	0.068	NA	0.032 I	0.097	0.025 U	0.025 U	0.059	1.0	0.025 U
Total Dissolved Solids	SDWS	500	mg/L	NA	NA	423	399	NA	580	461	437	514	167	302	328
Field Parameters															
Field pH	SDWS	6.5 - 8.5	SU	7.10	7.14	6.64	6.95	6.86	6.95	7.15	6.70	6.87	5.91	6.45	6.80
Field Specific Conductance	NS	NS	umhos/cm	920	943	645	654	671	1012	773	664	868	227.7	434.1	499.7
Field Temperature	NS	NS	deg C	22.0	19.4	25.6	27.4	23.5	28.2	27.6	25.8	26.3	27.0	26.5	26.1
Oxygen, Dissolved	NS	NS	mg/L	0.42	1.10	0.68	1.17	0.68	1.70	1.70	1.00	1.70	1.96	1.43	1.51
Turbidity	NS	NS	NTU	11.0	6.25	1.01	3.8	2.54	4.21	5.10	1.91	7.05	4.82	4.04	4.93

Notes:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. NS = No numeric standard has been set for this analyte.
4. NA = Not Analyzed
5. mg/L = milligrams per liter
6. ug/L = micrograms per liter
7. umhos/cm = micromhos per centimeter
8. SU = standard units
9. Deg C = degrees Celsius
10. NTU = nephelometric turbidity units
11. Yellow shaded values indicate parameter concentrations exceed MCL
12. U = Analyte concentration was below the laboratory detection limit
13. I = Analyte concentration was between the laboratory detection limit and MCL
14. MCL = Maximum Contaminant Level
15. BGW-1 = Designated Background Monitoring Well

Table 3. Summary of Detected Groundwater Monitoring Results
Lena Road Landfill November 2022

Parameter	Standard	MCL	Units	GW-20	GW-20 RESAMPLE	GW-21	GW-22	GW-23	GW-24	GW-25	GW-26	GW-27R
Volatile Organic Compounds												
Acetone	NS	NS	ug/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Metals												
Antimony	PDWS	6	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.70 I	0.50 U	0.60 I	0.50 U	0.50 U
Arsenic	PDWS	10	ug/L	4.7	6.6	2.3	5.0	0.73 I	0.78 I	0.89 I	4.3	3.5
Barium	PDWS	2000	ug/L	14.0	12.2	12.1	17.7	18.1	17.0	18.8	16.2	11.9
Chromium	PDWS	100	ug/L	3.9 I	1.9 I	1.7 I	2.7 I	1.7 U	2.8 I	2.1 I	2.1 I	1.7 U
Cobalt	NS	NS	ug/L	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	1.1 I	0.96 U
Copper	SDWS	1000	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	3.0 I	2.8 I	3.4 I
Iron	SDWS	300	ug/L	635	744	983	3540	351	545	466	2380	1270
Lead	PDWS	15	ug/L	0.22 U	0.22 U	0.35 I	0.35 I	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Mercury	PDWS	2	ug/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Nickel	NS	NS	ug/L	1.6 I	1.0 U	1.2 I	1.2 I	1.1 I	2.0 I	2.3 I	1.7 I	1.0 U
Selenium	PDWS	50	ug/L	0.72 I	0.72 I	0.79 I	1.3 I	1.5 I	0.69 I	1.6 I	1.1 I	0.77 I
Sodium	PDWS	160	mg/L	3.7	5.0	5.5	7.5	11.4	13.0	9.9	19.2	5.7
Thallium	PDWS	2	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Vanadium	NS	NS	ug/L	3.5 I	3.1 I	3.8 I	7.5 I	14.2	3.4 I	6.2 I	3.9 I	9.4 I
Zinc	SDWS	5000	ug/L	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
General Chemistry												
Chloride	SDWS	250	mg/L	6.3	8.3	8.0	11.5	20.5	35.3	43.6	25.4	25.1
Nitrogen, Ammonia	NS	NS	mg/L	0.40	0.33	0.058	1.6	0.31	0.11	0.045 I	0.49	0.23
Nitrogen, Nitrate	PDWS	10	mg/L	0.051	0.025 U	0.025 U	0.025 U	0.30	0.73	2.5	0.039 I	0.51
Total Dissolved Solids	SDWS	500	mg/L	253	230	170	167	337	383	344	333	302
Field Parameters												
Field pH	SDWS	6.5 - 8.5	SU	6.64	6.63	6.13	6.00	6.63	6.65	6.74	6.42	6.71
Field Specific Conductance	NS	NS	umhos/cm	393.1	424.4	240.1	237.2	484.2	600	337.5	435.1	434.2
Field Temperature	NS	NS	deg C	26.2	21.6	26.7	23.2	22.1	25.2	25.6	25.5	25.4
Oxygen, Dissolved	NS	NS	mg/L	1.32	2.58	2.11	1.51	1.78	1.63	1.27	1.78	1.97
Turbidity	NS	NS	NTU	2.34	3.97	5.14	7.38	1.22	6.34	3.98	7.59	3.54

Notes:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. NS = No numeric standard has been set for this analyte.
4. NA = Not Analyzed
5. mg/L = milligrams per liter
6. ug/L = micrograms per liter
7. umhos/cm = micromhos per centimeter
8. SU = standard units
9. Deg C = degrees Celsius
10. NTU = nephelometric turbidity units
11. Yellow shaded values indicate parameter concentrations exceed MCL
12. U = Analyte concentration was below the laboratory detection limit
13. I = Analyte concentration was between the laboratory detection limit and MCL
14. MCL = Maximum Contaminant Level
15. BGW-1 = Designated Background Monitoring Well

**Table 4. Summary of Detected Surface Water Quality Analytical Results
Lena Road Landfill November 2022**

Parameter	SWQS MCL	Units	SW-1	SW-2	SW-2 RESAMPLE
Metals					
Arsenic	50	ug/L	2.2	139	27.4
Barium	NS	ug/L	15.0	41.8	NA
Calcium	NS	mg/L	37.6	67.5	NA
Iron	1000	ug/L	908	8,310	NA
Lead	NS	ug/L	0.22 U	0.34 I	NA
Magnesium	NS	mg/L	14.2	21.9	NA
Mercury	0.012	ug/L	0.00165	0.00712	NA
Nickel	NS	ug/L	2.4 I	2.9 I	NA
Selenium	NS	ug/L	0.20 I	0.25 I	NA
Vanadium	NS	ug/L	1.2 I	2.4 I	NA
General Chemistry					
Chemical Oxygen Demand	NS	mg/L	50.0	70.3	NA
Carbon- Total Organic	NS	mg/L	28.4	37.5	NA
Hardness- Calculated	NS	mg/L	152	259	NA
Ammonia (N)	NS	mg/L	0.048 I	0.085	NA
Nitrate (N)	NS	mg/L	0.042 I	0.25 U	NA
Nitrate-Nitrite (N)	NS	mg/L	0.042 I	0.016 I	NA
Nitrogen- Total	NS	mg/L	0.79	0.96	NA
Nitrogen- Total Kjeldahl	NS	mg/L	0.75	0.94	NA
Nitrogen, Ammonium	NS	mg/L	28.4	0.085	NA
Phosphorus- Total	NS	mg/L	0.19	0.14	NA
Fecal Coliforms	NS	CFU/100 mL	107	82.0	NA
Residues- Filterable (TDS)	NS	mg/L	286	493	NA
Residues- Nonfilterable (TSS)	NS	mg/L	1.2	12.0	NA
Field Parameters					
Specific Conductance	1275	umhos/cm	456.1	761	519.6
Dissolved Oxygen	>5.0	mg/L	6.00	2.93	2.27
pH	6.5-8.5	SU	7.33	6.56	6.85
Temperature, Water	NS	Degrees C	19.0	20.0	17.4
Turbidity	<29	NTU	6.6	49.5	17.3
Chlorophyll a	NS	ug/L	1.0 U	2.5 I	NA
Chlorophyll a- corrected	NS	mg/m ³	1.0 U	2.4 I	NA

Notes:

1. SWQS MCL = Surface Water Quality Standards Maximum Contaminant Level.
2. Chapter 62-302.530 F.A.C. Class III Waters
3. NS = No numeric standard has been set for this analyte.
4. <29 = Turbidity MCL is 29 NTUs over background levels.
5. Yellow shaded values indicate parameter concentrations exceeded the MCL.
6. mg/L = milligrams per liter.
7. ug/L = micrograms per liter.
9. mg/m³ = milligrams per meter cubed.
9. umhos/cm = micromhos/centimeter.
10. NTU = nephelometric turbidity units.
11. U = Analyte concentration was below the laboratory detection limit (value shown).
12. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
13. SU = standard units.
14. Degrees C = degrees Celsius.
15. CFU = colony forming unit.
16. TDS = Total Dissolved Solids.
17. TSS = Total Suspended Solids.
18. BOD = Biochemical Oxygen Demand.

Appendix A

FDEP Form 62-701.900(31), FAC



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.

Form Title: Water Quality Monitoring Certification

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Lena Road Class I Landfill
 Address 3333 Lena Road
 City Bradenton, FL Zip 34211 County Manatee
 Telephone Number (941) 792-8811 ext.5323

(2) WACS Facility ID 44795

(3) DEP Permit Number 39884-021-SO-01

(4) Authorized Representative's Name Evan Pilachowski Title Utilities Director
 Address 3333 Lena Road
 City Bradenton, FL Zip 34211 County Manatee
 Telephone Number (941) 792-8811 ext.5323
 Email address (if available) evan.pilachowski@mymanatee.org

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

3/13/2023

(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Pace Analytical Serives, LLC

Analytical Lab NELAC / HRS Certification # NELAC #E83079 (Ormond Beach Laboratory)

Lab Name Pace ANalytical - Oldsmar, FL

Address 110 South Bayview, Oldsmar, FL 34677

Phone Number (941) 792-8811 ext.5323

Email address (if available) cameron.meynardie@pacelabs.com



Appendix B

Laboratory Analytical Report

December 13, 2022

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill (Existing W
Pace Project No.: 35759603

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35759603001	GW-3	Water	11/14/22 12:18	11/14/22 17:47
35759603002	GW-4	Water	11/14/22 13:13	11/14/22 17:47
35759603003	GW-5	Water	11/14/22 14:01	11/14/22 17:47
35759603004	GW-6	Water	11/14/22 14:51	11/14/22 17:47
35759603005	GW-7	Water	11/14/22 15:39	11/14/22 17:47
35759603006	GW-25	Water	11/14/22 09:15	11/14/22 17:47
35759603007	GW-26	Water	11/14/22 10:16	11/14/22 17:47
35759603008	GW-27R	Water	11/14/22 11:16	11/14/22 17:47
35759603009	GW-7 DUP	Water	11/14/22 15:39	11/14/22 17:47
35759603010	Trip Blank 1	Water	11/14/22 00:01	11/14/22 17:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35759603001	GW-3	EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35759603002	GW-4	EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35759603003	GW-5	EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759603004	GW-6	EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759603005	GW-7	EPA 8011	LJM	2	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35759603006	GW-25	EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
35759603007	GW-26	EPA 353.2	MRC	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	JJB	1	PASI-O
35759603008	GW-27R	EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
35759603009	GW-7 DUP	EPA 8260	AS4	48	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6010	TMA	12	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	LEC	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AS4	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759603010	Trip Blank 1	EPA 8011	LJM	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

10 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

Method: EPA 7470
Description: 7470 Mercury
Client: Manatee County Solid Waste
Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 7470 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 872792

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4804679)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene
- DUP (Lab ID: 4804681)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene
- GW-25 (Lab ID: 35759603006)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene
- GW-26 (Lab ID: 35759603007)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4804680)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene
- MS (Lab ID: 4804682)
 - Bromomethane
 - trans-1,4-Dichloro-2-butene

QC Batch: 873238

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4806936)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873238

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- trans-1,4-Dichloro-2-butene
- DUP (Lab ID: 4806938)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-27R (Lab ID: 35759603008)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-3 (Lab ID: 35759603001)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-4 (Lab ID: 35759603002)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-5 (Lab ID: 35759603003)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-6 (Lab ID: 35759603004)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- GW-7 (Lab ID: 35759603005)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873238

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- GW-7 DUP (Lab ID: 35759603009)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4806937)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene
- MS (Lab ID: 4806939)
 - Acrylonitrile
 - Bromomethane
 - Iodomethane
 - Vinyl acetate
 - trans-1,4-Dichloro-2-butene

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 872792

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760713006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4804682)
 - 1,1,1,2-Tetrachloroethane
 - 1,1,1-Trichloroethane

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 872792

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760713006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2,3-Trichloropropane
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,4-Dichlorobenzene
- 2-Butanone (MEK)
- 2-Hexanone
- 4-Methyl-2-pentanone (MIBK)
- Acetone
- Acrylonitrile
- Benzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dibromomethane
- Ethylbenzene
- Methylene Chloride
- Styrene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane
- Vinyl acetate
- Vinyl chloride
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- trans-1,4-Dichloro-2-butene

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873238

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760159006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4806939)
 - Acrylonitrile
 - Vinyl acetate

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for SM 2540C by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

Method: EPA 353.2
Description: 353.2 Nitrogen, NO₂/NO₃ unpres
Client: Manatee County Solid Waste
Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-3		Lab ID: 35759603001		Collected: 11/14/22 12:18		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.99	Std. Units			1		11/14/22 12:18		
Field Temperature	27.0	deg C			1		11/14/22 12:18		
Field Specific Conductance	650	umhos/cm			1		11/14/22 12:18		
Oxygen, Dissolved	1.08	mg/L			1		11/14/22 12:18	7782-44-7	
Turbidity	2.00	NTU			1		11/14/22 12:18		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:27	11/19/22 03:35	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:27	11/19/22 03:35	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	14.5	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 13:36	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 13:36	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 13:36	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 13:36	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 13:36	7440-48-4	
Copper	2.7 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 13:36	7440-50-8	
Iron	188	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 13:36	7439-89-6	
Nickel	1.5 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:36	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:36	7440-22-4	
Sodium	7.4	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 13:36	7440-23-5	
Vanadium	9.2 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 13:36	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 13:36	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.58 I	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:06	7440-36-0	
Arsenic	1.8	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:06	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:06	7439-92-1	
Selenium	4.1	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:06	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:33	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 04:32	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 04:32	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:32	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 04:32	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-3 **Lab ID: 35759603001** Collected: 11/14/22 12:18 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 04:32	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 04:32	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 04:32	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 04:32	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 04:32	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 04:32	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 04:32	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 04:32	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 04:32	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 04:32	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 04:32	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 04:32	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 04:32	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 04:32	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 04:32	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 04:32	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 04:32	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 04:32	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 04:32	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 04:32	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 04:32	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 04:32	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 04:32	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:32	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 04:32	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 04:32	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 04:32	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 04:32	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 04:32	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 04:32	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:32	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:32	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 04:32	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 04:32	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 04:32	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 04:32	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 04:32	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 04:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/21/22 04:32	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/21/22 04:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 04:32	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-3 Lab ID: 35759603001 Collected: 11/14/22 12:18 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	411	mg/L	5.0	5.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	19.1	mg/L	5.0	2.5	1		11/18/22 19:21	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.12	mg/L	0.050	0.035	1		11/22/22 11:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.91	mg/L	0.050	0.025	1		11/15/22 13:02	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-4		Lab ID: 35759603002		Collected: 11/14/22 13:13		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.70	Std. Units			1		11/14/22 13:13		
Field Temperature	26.7	deg C			1		11/14/22 13:13		
Field Specific Conductance	365.7	umhos/cm			1		11/14/22 13:13		
Oxygen, Dissolved	1.64	mg/L			1		11/14/22 13:13	7782-44-7	
Turbidity	3.86	NTU			1		11/14/22 13:13		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/17/22 17:27	11/19/22 03:50	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/17/22 17:27	11/19/22 03:50	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	12.4	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 13:40	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 13:40	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 13:40	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 13:40	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 13:40	7440-48-4	
Copper	2.8 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 13:40	7440-50-8	
Iron	593	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 13:40	7439-89-6	
Nickel	1.8 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:40	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:40	7440-22-4	
Sodium	3.2	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 13:40	7440-23-5	
Vanadium	10.4	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 13:40	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 13:40	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/15/22 02:51	11/16/22 11:23	7440-36-0	
Arsenic	1.6	ug/L	1.0	0.50	1	11/15/22 02:51	11/16/22 11:23	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/16/22 11:23	7439-92-1	
Selenium	1.3 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/16/22 11:23	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/16/22 11:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:45	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 04:55	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 04:55	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:55	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 04:55	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

Sample: GW-4 **Lab ID: 35759603002** Collected: 11/14/22 13:13 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 04:55	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 04:55	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 04:55	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 04:55	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 04:55	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 04:55	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 04:55	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 04:55	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 04:55	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 04:55	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 04:55	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 04:55	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 04:55	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 04:55	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 04:55	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 04:55	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 04:55	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 04:55	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 04:55	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 04:55	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 04:55	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 04:55	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 04:55	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:55	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 04:55	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 04:55	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 04:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 04:55	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 04:55	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 04:55	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 04:55	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 04:55	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 04:55	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:55	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 04:55	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 04:55	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 04:55	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 04:55	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 04:55	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 04:55	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 04:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		11/21/22 04:55	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/21/22 04:55	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 04:55	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-4		Lab ID: 35759603002		Collected: 11/14/22 13:13		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	234	mg/L	5.0	5.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	6.7	mg/L	5.0	2.5	1		11/18/22 19:44	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.16	mg/L	0.050	0.035	1		11/22/22 11:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/15/22 13:03	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

Sample: GW-5		Lab ID: 35759603003		Collected: 11/14/22 14:01		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.95	Std. Units			1		11/14/22 14:01		
Field Temperature	26.9	deg C			1		11/14/22 14:01		
Field Specific Conductance	470.0	umhos/cm			1		11/14/22 14:01		
Oxygen, Dissolved	1.29	mg/L			1		11/14/22 14:01	7782-44-7	
Turbidity	2.51	NTU			1		11/14/22 14:01		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:27	11/19/22 04:04	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/17/22 17:27	11/19/22 04:04	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	13.7	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 13:44	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 13:44	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 13:44	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 13:44	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 13:44	7440-48-4	
Copper	3.1 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 13:44	7440-50-8	
Iron	594	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 13:44	7439-89-6	
Nickel	2.6 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:44	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:44	7440-22-4	
Sodium	8.7	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 13:44	7440-23-5	
Vanadium	15.2	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 13:44	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 13:44	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.53 I	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:24	7440-36-0	
Arsenic	1.3	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:24	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:24	7439-92-1	
Selenium	1.6 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:24	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:47	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 05:17	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 05:17	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:17	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 05:17	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-5 **Lab ID: 35759603003** Collected: 11/14/22 14:01 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 05:17	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 05:17	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 05:17	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 05:17	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 05:17	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 05:17	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 05:17	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 05:17	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 05:17	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 05:17	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 05:17	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 05:17	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 05:17	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 05:17	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 05:17	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 05:17	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 05:17	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 05:17	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 05:17	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 05:17	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 05:17	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 05:17	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 05:17	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:17	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 05:17	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 05:17	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 05:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 05:17	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 05:17	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 05:17	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 05:17	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 05:17	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 05:17	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:17	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:17	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 05:17	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 05:17	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 05:17	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 05:17	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 05:17	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 05:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		11/21/22 05:17	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/21/22 05:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/21/22 05:17	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-5		Lab ID: 35759603003		Collected: 11/14/22 14:01		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	388	mg/L	5.0	5.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	13.5	mg/L	5.0	2.5	1		11/18/22 20:52	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.24	mg/L	0.050	0.035	1		11/22/22 11:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.041 I	mg/L	0.050	0.025	1		11/15/22 19:07	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-6		Lab ID: 35759603004		Collected: 11/14/22 14:51		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.94	Std. Units			1		11/14/22 14:51		
Field Temperature	26.0	deg C			1		11/14/22 14:51		
Field Specific Conductance	1184	umhos/cm			1		11/14/22 14:51		
Oxygen, Dissolved	1.74	mg/L			1		11/14/22 14:51	7782-44-7	
Turbidity	1.89	NTU			1		11/14/22 14:51		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/17/22 17:27	11/19/22 04:19	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/17/22 17:27	11/19/22 04:19	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	21.3	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 13:47	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 13:47	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 13:47	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 13:47	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 13:47	7440-48-4	
Copper	3.9 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 13:47	7440-50-8	
Iron	460	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 13:47	7439-89-6	
Nickel	2.9 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:47	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:47	7440-22-4	
Sodium	3.8	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 13:47	7440-23-5	
Vanadium	10.5	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 13:47	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 13:47	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.65 I	ug/L	1.0	0.50	1	11/15/22 02:51	11/16/22 10:55	7440-36-0	
Arsenic	3.7	ug/L	1.0	0.50	1	11/15/22 02:51	11/16/22 10:55	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/16/22 10:55	7439-92-1	
Selenium	3.1	ug/L	2.0	0.20	1	11/15/22 02:51	11/16/22 10:55	7782-49-2	
Thallium	0.42 I	ug/L	1.0	0.11	1	11/15/22 02:51	11/16/22 10:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:50	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 05:40	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 05:40	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:40	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 05:40	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-6 **Lab ID: 35759603004** Collected: 11/14/22 14:51 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 05:40	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 05:40	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 05:40	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 05:40	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 05:40	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 05:40	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 05:40	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 05:40	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 05:40	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 05:40	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 05:40	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 05:40	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 05:40	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 05:40	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 05:40	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 05:40	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 05:40	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 05:40	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 05:40	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 05:40	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 05:40	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 05:40	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 05:40	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:40	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 05:40	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 05:40	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 05:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 05:40	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 05:40	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 05:40	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 05:40	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 05:40	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 05:40	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:40	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 05:40	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 05:40	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 05:40	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 05:40	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 05:40	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 05:40	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 05:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/21/22 05:40	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/21/22 05:40	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/21/22 05:40	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-6		Lab ID: 35759603004		Collected: 11/14/22 14:51		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	792	mg/L	10.0	10.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	5.7	mg/L	5.0	2.5	1		11/28/22 22:32	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	1.2	mg/L	0.050	0.035	1		11/22/22 11:34	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.047 I	mg/L	0.050	0.025	1		11/15/22 19:49	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

Sample: GW-7		Lab ID: 35759603005		Collected: 11/14/22 15:39		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.69	Std. Units			1		11/14/22 15:39		
Field Temperature	26.6	deg C			1		11/14/22 15:39		
Field Specific Conductance	521	umhos/cm			1		11/14/22 15:39		
Oxygen, Dissolved	1.76	mg/L			1		11/14/22 15:39	7782-44-7	
Turbidity	3.31	NTU			1		11/14/22 15:39		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 05:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:31	11/19/22 05:18	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	12.1	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 13:51	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 13:51	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 13:51	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 13:51	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 13:51	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 13:51	7440-50-8	
Iron	871	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 13:51	7439-89-6	
Nickel	1.7 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:51	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 13:51	7440-22-4	
Sodium	11.8	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 13:51	7440-23-5	
Vanadium	3.8 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 13:51	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 13:51	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:29	7440-36-0	
Arsenic	5.7	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:29	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:29	7439-92-1	
Selenium	1.1 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:29	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:57	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 06:25	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 06:25	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:25	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 06:25	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-7 **Lab ID: 35759603005** Collected: 11/14/22 15:39 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 06:25	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 06:25	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 06:25	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 06:25	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 06:25	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 06:25	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 06:25	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 06:25	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 06:25	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 06:25	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 06:25	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 06:25	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 06:25	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 06:25	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 06:25	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 06:25	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 06:25	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 06:25	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 06:25	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 06:25	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 06:25	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 06:25	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 06:25	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:25	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 06:25	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 06:25	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 06:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 06:25	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 06:25	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 06:25	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 06:25	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 06:25	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 06:25	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:25	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:25	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 06:25	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 06:25	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 06:25	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 06:25	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 06:25	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 06:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		11/21/22 06:25	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/21/22 06:25	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 06:25	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-7		Lab ID: 35759603005		Collected: 11/14/22 15:39		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	349	mg/L	5.0	5.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	12.9	mg/L	5.0	2.5	1		11/18/22 21:38	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.23	mg/L	0.050	0.035	1		11/22/22 11:36	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/15/22 19:53	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-25		Lab ID: 35759603006		Collected: 11/14/22 09:15		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.74	Std. Units			1		11/14/22 09:15		
Field Temperature	25.6	deg C			1		11/14/22 09:15		
Field Specific Conductance	337.5	umhos/cm			1		11/14/22 09:15		
Oxygen, Dissolved	1.27	mg/L			1		11/14/22 09:15	7782-44-7	
Turbidity	3.98	NTU			1		11/14/22 09:15		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 05:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:31	11/19/22 05:48	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	18.8	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 15:18	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 15:18	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 15:18	7440-43-9	
Chromium	2.1 I	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 15:18	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 15:18	7440-48-4	
Copper	3.0 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 15:18	7440-50-8	
Iron	466	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 15:18	7439-89-6	
Nickel	2.3 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:18	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:18	7440-22-4	
Sodium	9.9	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 15:18	7440-23-5	
Vanadium	6.2 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 15:18	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 15:18	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.60 I	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:32	7440-36-0	
Arsenic	0.89 I	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:32	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:32	7439-92-1	
Selenium	1.6 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:32	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 12:59	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/18/22 17:45	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/18/22 17:45	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/18/22 17:45	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/18/22 17:45	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-25 **Lab ID: 35759603006** Collected: 11/14/22 09:15 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/18/22 17:45	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/18/22 17:45	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/18/22 17:45	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/18/22 17:45	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/18/22 17:45	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/18/22 17:45	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/18/22 17:45	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/18/22 17:45	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/18/22 17:45	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/18/22 17:45	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/18/22 17:45	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/18/22 17:45	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/18/22 17:45	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/18/22 17:45	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/18/22 17:45	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/18/22 17:45	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/18/22 17:45	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/18/22 17:45	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/18/22 17:45	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/18/22 17:45	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/18/22 17:45	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/18/22 17:45	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/18/22 17:45	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/18/22 17:45	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/18/22 17:45	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/18/22 17:45	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/18/22 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/18/22 17:45	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/18/22 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/18/22 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/18/22 17:45	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/18/22 17:45	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/18/22 17:45	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/18/22 17:45	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/18/22 17:45	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/18/22 17:45	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/18/22 17:45	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/18/22 17:45	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/18/22 17:45	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/18/22 17:45	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/18/22 17:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/18/22 17:45	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/18/22 17:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/18/22 17:45	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-25 Lab ID: 35759603006 Collected: 11/14/22 09:15 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	344	mg/L	5.0	5.0	1		11/18/22 11:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	43.6	mg/L	5.0	2.5	1		11/18/22 22:01	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.045 I	mg/L	0.050	0.035	1		11/22/22 11:38	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	2.5	mg/L	0.050	0.025	1		11/15/22 07:51	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-26		Lab ID: 35759603007		Collected: 11/14/22 10:16		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.42	Std. Units			1		11/14/22 10:16		
Field Temperature	25.5	deg C			1		11/14/22 10:16		
Field Specific Conductance	435.1	umhos/cm			1		11/14/22 10:16		
Oxygen, Dissolved	1.78	mg/L			1		11/14/22 10:16	7782-44-7	
Turbidity	7.59	NTU			1		11/14/22 10:16		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 06:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:31	11/19/22 06:18	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	16.2	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 15:22	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 15:22	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 15:22	7440-43-9	
Chromium	2.1 I	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 15:22	7440-47-3	
Cobalt	1.0 I	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 15:22	7440-48-4	
Copper	2.8 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 15:22	7440-50-8	
Iron	2380	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 15:22	7439-89-6	
Nickel	1.7 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:22	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:22	7440-22-4	
Sodium	19.2	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 15:22	7440-23-5	
Vanadium	3.9 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 15:22	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 15:22	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:34	7440-36-0	
Arsenic	4.3	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:34	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:34	7439-92-1	
Selenium	1.1 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:34	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 13:01	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/18/22 18:51	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/18/22 18:51	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/18/22 18:51	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/18/22 18:51	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)

Pace Project No.: 35759603

Sample: GW-26 **Lab ID: 35759603007** Collected: 11/14/22 10:16 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/18/22 18:51	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/18/22 18:51	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/18/22 18:51	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/18/22 18:51	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/18/22 18:51	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/18/22 18:51	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/18/22 18:51	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/18/22 18:51	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/18/22 18:51	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/18/22 18:51	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/18/22 18:51	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/18/22 18:51	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/18/22 18:51	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/18/22 18:51	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/18/22 18:51	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/18/22 18:51	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/18/22 18:51	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/18/22 18:51	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/18/22 18:51	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/18/22 18:51	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/18/22 18:51	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/18/22 18:51	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/18/22 18:51	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/18/22 18:51	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/18/22 18:51	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/18/22 18:51	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/18/22 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/18/22 18:51	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/18/22 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/18/22 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/18/22 18:51	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/18/22 18:51	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/18/22 18:51	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/18/22 18:51	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/18/22 18:51	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/18/22 18:51	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/18/22 18:51	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/18/22 18:51	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/18/22 18:51	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/18/22 18:51	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/18/22 18:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/18/22 18:51	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		11/18/22 18:51	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/18/22 18:51	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-26 Lab ID: 35759603007 Collected: 11/14/22 10:16 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	333	mg/L	5.0	5.0	1		11/18/22 11:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	25.4	mg/L	5.0	2.5	1		11/18/22 22:24	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.49	mg/L	0.050	0.035	1		11/22/22 11:40	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.039 I	mg/L	0.050	0.025	1		11/15/22 07:58	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)

Pace Project No.: 35759603

Sample: GW-27R		Lab ID: 35759603008		Collected: 11/14/22 11:16		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.71	Std. Units			1		11/14/22 11:16		
Field Temperature	25.4	deg C			1		11/14/22 11:16		
Field Specific Conductance	434.2	umhos/cm			1		11/14/22 11:16		
Oxygen, Dissolved	1.97	mg/L			1		11/14/22 11:16	7782-44-7	
Turbidity	3.54	NTU			1		11/14/22 11:16		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/17/22 17:31	11/19/22 06:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/17/22 17:31	11/19/22 06:32	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	11.9	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 15:25	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 15:25	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 15:25	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 15:25	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 15:25	7440-48-4	
Copper	3.4 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 15:25	7440-50-8	
Iron	1270	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 15:25	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:25	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:25	7440-22-4	
Sodium	5.7	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 15:25	7440-23-5	
Vanadium	9.4 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 15:25	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 15:25	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:37	7440-36-0	
Arsenic	3.5	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:37	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:37	7439-92-1	
Selenium	0.77 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:37	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 13:03	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 03:25	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 03:25	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 03:25	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 03:25	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-27R **Lab ID: 35759603008** Collected: 11/14/22 11:16 Received: 11/14/22 17:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 03:25	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 03:25	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 03:25	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 03:25	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 03:25	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 03:25	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 03:25	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 03:25	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 03:25	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 03:25	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 03:25	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 03:25	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 03:25	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 03:25	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 03:25	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 03:25	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 03:25	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 03:25	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 03:25	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 03:25	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 03:25	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 03:25	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 03:25	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 03:25	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 03:25	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 03:25	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 03:25	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 03:25	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 03:25	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 03:25	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 03:25	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 03:25	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 03:25	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 03:25	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 03:25	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 03:25	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 03:25	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 03:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/21/22 03:25	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/21/22 03:25	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/21/22 03:25	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-27R Lab ID: 35759603008 Collected: 11/14/22 11:16 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	302	mg/L	5.0	5.0	1		11/18/22 11:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	25.1	mg/L	5.0	2.5	1		11/18/22 22:46	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.23	mg/L	0.050	0.035	1		11/22/22 11:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.51	mg/L	0.050	0.025	1		11/15/22 12:57	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-7 DUP Lab ID: 35759603009 Collected: 11/14/22 15:39 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.69	Std. Units			1		11/14/22 15:39		
Field Temperature	26.6	deg C			1		11/14/22 15:39		
Field Specific Conductance	521	umhos/cm			1		11/14/22 15:39		
Oxygen, Dissolved	1.76	mg/L			1		11/14/22 15:39	7782-44-7	
Turbidity	3.31	NTU			1		11/14/22 15:39		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/17/22 17:31	11/19/22 06:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/17/22 17:31	11/19/22 06:47	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	11.8	ug/L	10.0	0.84	1	11/15/22 02:51	11/17/22 15:29	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/15/22 02:51	11/17/22 15:29	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/15/22 02:51	11/17/22 15:29	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/15/22 02:51	11/17/22 15:29	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/15/22 02:51	11/17/22 15:29	7440-48-4	
Copper	2.6 I	ug/L	5.0	2.6	1	11/15/22 02:51	11/17/22 15:29	7440-50-8	
Iron	752	ug/L	40.0	25.0	1	11/15/22 02:51	11/17/22 15:29	7439-89-6	
Nickel	1.9 I	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:29	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/15/22 02:51	11/17/22 15:29	7440-22-4	
Sodium	11.5	mg/L	2.0	0.54	1	11/15/22 02:51	11/17/22 15:29	7440-23-5	
Vanadium	3.7 I	ug/L	10.0	1.0	1	11/15/22 02:51	11/17/22 15:29	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/15/22 02:51	11/17/22 15:29	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:39	7440-36-0	
Arsenic	5.4	ug/L	1.0	0.50	1	11/15/22 02:51	11/15/22 16:39	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/15/22 02:51	11/15/22 16:39	7439-92-1	
Selenium	1.1 I	ug/L	2.0	0.20	1	11/15/22 02:51	11/15/22 16:39	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/15/22 02:51	11/15/22 16:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 13:06	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/21/22 06:47	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/21/22 06:47	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:47	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/21/22 06:47	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W)

Pace Project No.: 35759603

Sample: GW-7 DUP Lab ID: 35759603009 Collected: 11/14/22 15:39 Received: 11/14/22 17:47 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/21/22 06:47	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/21/22 06:47	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/21/22 06:47	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/21/22 06:47	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/21/22 06:47	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/21/22 06:47	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/21/22 06:47	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/21/22 06:47	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/21/22 06:47	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/21/22 06:47	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/21/22 06:47	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/21/22 06:47	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/21/22 06:47	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/21/22 06:47	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/21/22 06:47	110-57-6	J(v2)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/21/22 06:47	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/21/22 06:47	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/21/22 06:47	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/21/22 06:47	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/21/22 06:47	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/21/22 06:47	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/21/22 06:47	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/21/22 06:47	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:47	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/21/22 06:47	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/21/22 06:47	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/21/22 06:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/21/22 06:47	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/21/22 06:47	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/21/22 06:47	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/21/22 06:47	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/21/22 06:47	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/21/22 06:47	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:47	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/21/22 06:47	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/21/22 06:47	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/21/22 06:47	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/21/22 06:47	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/21/22 06:47	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/21/22 06:47	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/21/22 06:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		11/21/22 06:47	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/21/22 06:47	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 06:47	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: GW-7 DUP		Lab ID: 35759603009		Collected: 11/14/22 15:39		Received: 11/14/22 17:47		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	349	mg/L	5.0	5.0	1		11/18/22 13:13		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	13.1	mg/L	5.0	2.5	1		11/18/22 23:09	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.22	mg/L	0.050	0.035	1		11/22/22 12:25	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/15/22 19:54	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Sample: Trip Blank 1		Lab ID: 35759603010	Collected: 11/14/22 00:01	Received: 11/14/22 17:47	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/17/22 17:31	11/19/22 07:02	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/17/22 17:31	11/19/22 07:02	106-93-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch:	873985	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

METHOD BLANK:	4810843	Matrix:	Water
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/28/22 12:29	

LABORATORY CONTROL SAMPLE:	4810844					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4810845			4810846								
Parameter	Units	35759603001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.090 U	2	2	2.2	2.2	108	108	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	871426	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

METHOD BLANK:	4796464	Matrix:	Water
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/17/22 13:29	
Beryllium	ug/L	0.17 U	4.0	0.17	11/17/22 13:29	
Cadmium	ug/L	0.33 U	1.0	0.33	11/17/22 13:29	
Chromium	ug/L	1.7 U	5.0	1.7	11/17/22 13:29	
Cobalt	ug/L	0.96 U	10.0	0.96	11/17/22 13:29	
Copper	ug/L	2.6 U	5.0	2.6	11/17/22 13:29	
Iron	ug/L	25.0 U	40.0	25.0	11/17/22 13:29	
Nickel	ug/L	1.0 U	5.0	1.0	11/17/22 13:29	
Silver	ug/L	1.0 U	5.0	1.0	11/17/22 13:29	
Sodium	mg/L	0.54 U	2.0	0.54	11/17/22 13:29	
Vanadium	ug/L	1.0 U	10.0	1.0	11/17/22 13:29	
Zinc	ug/L	11.0 U	20.0	11.0	11/17/22 13:29	

LABORATORY CONTROL SAMPLE: 4796465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	255	102	80-120	
Beryllium	ug/L	25	22.9	92	80-120	
Cadmium	ug/L	25	23.1	92	80-120	
Chromium	ug/L	250	230	92	80-120	
Cobalt	ug/L	250	232	93	80-120	
Copper	ug/L	250	231	92	80-120	
Iron	ug/L	2500	2480	99	80-120	
Nickel	ug/L	250	230	92	80-120	
Silver	ug/L	25	23.1	92	80-120	
Sodium	mg/L	12.5	12.1	97	80-120	
Vanadium	ug/L	250	229	92	80-120	
Zinc	ug/L	1250	1140	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4796466 4796467

Parameter	Units	35759603005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	12.1	250	250	271	268	104	102	75-125	1	20	
Beryllium	ug/L	0.17 U	25	25	24.2	24.3	97	97	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	23.7	24.0	95	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4796466 4796467												
Parameter	Units	35759603005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	1.7 U	250	250	241	242	96	96	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	244	245	97	98	75-125	1	20	
Copper	ug/L	2.6 U	250	250	248	249	98	99	75-125	1	20	
Iron	ug/L	871	2500	2500	3410	3370	102	100	75-125	1	20	
Nickel	ug/L	1.7 I	250	250	241	243	96	96	75-125	1	20	
Silver	ug/L	1.0 U	25	25	24.5	24.6	97	97	75-125	1	20	
Sodium	mg/L	11.8	12.5	12.5	24.8	24.4	104	101	75-125	1	20	
Vanadium	ug/L	3.8 I	250	250	243	245	96	96	75-125	1	20	
Zinc	ug/L	11.0 U	1250	1250	1180	1180	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	871425	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

METHOD BLANK:	4796459	Matrix:	Water
Associated Lab Samples:	35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/15/22 16:01	
Arsenic	ug/L	0.50 U	1.0	0.50	11/15/22 16:01	
Lead	ug/L	0.22 U	1.0	0.22	11/15/22 16:01	
Selenium	ug/L	0.20 U	2.0	0.20	11/15/22 16:01	
Thallium	ug/L	0.11 U	1.0	0.11	11/15/22 16:01	

LABORATORY CONTROL SAMPLE: 4796460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	45.5	91	80-120	
Arsenic	ug/L	50	48.1	96	80-120	
Lead	ug/L	50	49.6	99	80-120	
Selenium	ug/L	50	49.8	100	80-120	
Thallium	ug/L	50	50.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4796461 4796462

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max	
		35759603001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			RPD	RPD
Antimony	ug/L	0.58 I	50	50	46.3	46.6	91	92	75-125		1	20
Arsenic	ug/L	1.8	50	50	49.3	49.7	95	96	75-125		1	20
Lead	ug/L	0.22 U	50	50	49.0	49.0	98	98	75-125		0	20
Selenium	ug/L	4.1	50	50	51.2	51.0	94	94	75-125		0	20
Thallium	ug/L	0.11 U	50	50	49.6	50.0	99	100	75-125		1	20

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	872792	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603006, 35759603007

METHOD BLANK: 4804679 Matrix: Water

Associated Lab Samples: 35759603006, 35759603007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/18/22 10:19	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/18/22 10:19	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/18/22 10:19	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/18/22 10:19	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/18/22 10:19	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/18/22 10:19	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/18/22 10:19	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/18/22 10:19	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/18/22 10:19	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/18/22 10:19	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/18/22 10:19	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/18/22 10:19	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/18/22 10:19	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/18/22 10:19	
Acetone	ug/L	8.7 U	25.0	8.7	11/18/22 10:19	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/18/22 10:19	
Benzene	ug/L	0.30 U	1.0	0.30	11/18/22 10:19	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/18/22 10:19	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/18/22 10:19	
Bromoform	ug/L	0.48 U	3.0	0.48	11/18/22 10:19	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/18/22 10:19	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/18/22 10:19	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/18/22 10:19	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/18/22 10:19	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/18/22 10:19	
Chloroform	ug/L	0.56 U	1.0	0.56	11/18/22 10:19	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/18/22 10:19	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/18/22 10:19	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/18/22 10:19	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/18/22 10:19	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/18/22 10:19	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/18/22 10:19	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/18/22 10:19	
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/18/22 10:19	
Styrene	ug/L	0.26 U	1.0	0.26	11/18/22 10:19	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/18/22 10:19	
Toluene	ug/L	0.33 U	1.0	0.33	11/18/22 10:19	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/18/22 10:19	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/18/22 10:19	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/18/22 10:19	J(v2)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

METHOD BLANK: 4804679

Matrix: Water

Associated Lab Samples: 35759603006, 35759603007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/18/22 10:19	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/18/22 10:19	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/18/22 10:19	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/18/22 10:19	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/18/22 10:19	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130		11/18/22 10:19	
4-Bromofluorobenzene (S)	%	106	70-130		11/18/22 10:19	
Toluene-d8 (S)	%	96	70-130		11/18/22 10:19	

LABORATORY CONTROL SAMPLE: 4804680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,1-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	68-125	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	18.0	90	66-133	
1,2,3-Trichloropropane	ug/L	20	16.4	82	62-127	
1,2-Dichlorobenzene	ug/L	20	18.3	92	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	70-130	
1,2-Dichloropropane	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.5	92	70-130	
2-Butanone (MEK)	ug/L	100	96.0	96	47-143	
2-Hexanone	ug/L	100	97.9	98	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	57-132	
Acetone	ug/L	100	89.6	90	46-148	
Acrylonitrile	ug/L	100	90.1	90	60-143	
Benzene	ug/L	20	19.0	95	70-130	
Bromochloromethane	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	17.9	90	49-126	
Bromomethane	ug/L	20	9.0 I	45	10-165 J(v3)	
Carbon disulfide	ug/L	20	19.8	99	60-141	
Carbon tetrachloride	ug/L	20	17.5	87	63-126	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	20.9	105	71-142	
Chloroform	ug/L	20	19.5	98	70-130	
Chloromethane	ug/L	20	20.5	102	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	18.3	92	62-118	
Dibromomethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

LABORATORY CONTROL SAMPLE: 4804680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	20.5	103	10-164	
Methylene Chloride	ug/L	20	18.3	92	65-136	
Styrene	ug/L	20	19.3	97	70-130	
Tetrachloroethene	ug/L	20	20.0	100	64-134	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.5	92	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	13.0	65	42-129	J(v3)
Trichloroethene	ug/L	20	20.1	101	70-130	
Trichlorofluoromethane	ug/L	20	21.6	108	65-135	
Vinyl acetate	ug/L	20	16.9	84	60-144	
Vinyl chloride	ug/L	20	22.2	111	68-131	
Xylene (Total)	ug/L	60	57.3	96	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 4804682

Parameter	Units	35760713006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	5.5	27	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.30 U	20	5.5	27	70-130	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	5.0	25	68-125	J(M1)
1,1,2-Trichloroethane	ug/L	0.30 U	20	4.7	24	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.34 U	20	5.2	26	70-130	J(M1)
1,1-Dichloroethene	ug/L	0.59 U	20	5.2	26	66-133	J(M1)
1,2,3-Trichloropropane	ug/L	0.53 U	20	4.0	20	62-127	J(M1)
1,2-Dichlorobenzene	ug/L	0.60 U	20	5.5	28	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.27 U	20	5.0	25	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.23 U	20	5.1	26	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	0.28 U	20	5.3	26	70-130	J(M1)
2-Butanone (MEK)	ug/L	6.7 U	100	22.9 I	23	47-143	J(M1)
2-Hexanone	ug/L	3.2 U	100	26.7	27	48-145	J(M1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	28.1	28	57-132	J(M1)
Acetone	ug/L	8.7 U	100	25.6	26	46-148	J(M1)
Acrylonitrile	ug/L	3.7 U	100	28.7	29	60-143	J(M1)
Benzene	ug/L	0.30 U	20	5.5	27	70-130	J(M1)
Bromochloromethane	ug/L	0.37 U	20	5.1	25	70-130	J(M1)
Bromodichloromethane	ug/L	0.19 U	20	4.7	24	70-130	J(M1)
Bromoform	ug/L	0.48 U	20	4.5	23	49-126	J(M1)
Bromomethane	ug/L	3.9 U	20	3.9 U	5	10-165	J(M1),J(v3)
Carbon disulfide	ug/L	1.8 U	20	5.4 I	27	60-141	J(M1)
Carbon tetrachloride	ug/L	0.44 U	20	5.2	26	63-126	J(M1)
Chlorobenzene	ug/L	0.35 U	20	5.5	28	70-130	J(M1)
Chloroethane	ug/L	3.7 U	20	3.7 U	15	71-142	J(M1)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

MATRIX SPIKE SAMPLE: 4804682		35760713006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	4.7	23	70-130	J(M1)
Chloromethane	ug/L	0.43 U	20	2.2	11	40-140	J(M1)
cis-1,2-Dichloroethene	ug/L	0.27 U	20	5.3	26	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.17 U	20	4.6	23	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	4.7	24	62-118	J(M1)
Dibromomethane	ug/L	0.68 U	20	5.0	25	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	5.6	28	70-130	J(M1)
Iodomethane	ug/L	3.6 U	20	3.6 U	15	10-164	
Methylene Chloride	ug/L	1.7 U	20	4.9 I	24	65-136	J(M1)
Styrene	ug/L	0.26 U	20	5.6	28	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	5.7	28	64-134	J(M1)
Toluene	ug/L	0.33 U	20	5.6	28	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	0.23 U	20	5.1	26	68-127	J(M1)
trans-1,3-Dichloropropene	ug/L	0.37 U	20	4.7	23	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	2.5 I	13	42-129	J(M1),J(v3)
Trichloroethene	ug/L	0.36 U	20	5.8	29	70-130	J(M1)
Trichlorofluoromethane	ug/L	0.72 U	20	3.2	16	65-135	J(M1)
Vinyl acetate	ug/L	1.8 U	20	5.1 I	26	60-144	J(M1)
Vinyl chloride	ug/L	0.39 U	20	2.7	13	68-131	J(M1)
Xylene (Total)	ug/L	2.1 U	60	16.9	28	70-130	MS
1,2-Dichlorobenzene-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 4804681

Parameter	Units	35760713005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	8.7 U	8.7 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

SAMPLE DUPLICATE: 4804681

Parameter	Units	35760713005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	J(v2)
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	99	99		40	
4-Bromofluorobenzene (S)	%	105	105		40	
Toluene-d8 (S)	%	95	96		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch: 873238

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603008, 35759603009

METHOD BLANK: 4806936

Matrix: Water

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603008, 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/21/22 00:48	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/21/22 00:48	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/21/22 00:48	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/21/22 00:48	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/21/22 00:48	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/21/22 00:48	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/21/22 00:48	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/21/22 00:48	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/21/22 00:48	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/21/22 00:48	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/21/22 00:48	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/21/22 00:48	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/21/22 00:48	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/21/22 00:48	
Acetone	ug/L	8.7 U	25.0	8.7	11/21/22 00:48	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/21/22 00:48	J(v2)
Benzene	ug/L	0.30 U	1.0	0.30	11/21/22 00:48	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/21/22 00:48	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/21/22 00:48	
Bromoform	ug/L	0.48 U	3.0	0.48	11/21/22 00:48	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/21/22 00:48	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/21/22 00:48	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/21/22 00:48	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/21/22 00:48	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/21/22 00:48	
Chloroform	ug/L	0.56 U	1.0	0.56	11/21/22 00:48	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/21/22 00:48	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/21/22 00:48	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/21/22 00:48	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/21/22 00:48	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/21/22 00:48	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/21/22 00:48	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/21/22 00:48	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/21/22 00:48	
Styrene	ug/L	0.26 U	1.0	0.26	11/21/22 00:48	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/21/22 00:48	
Toluene	ug/L	0.33 U	1.0	0.33	11/21/22 00:48	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/21/22 00:48	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/21/22 00:48	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/21/22 00:48	J(v2)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

METHOD BLANK: 4806936

Matrix: Water

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603008, 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/21/22 00:48	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/21/22 00:48	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/21/22 00:48	J(v2)
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/21/22 00:48	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/21/22 00:48	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		11/21/22 00:48	
4-Bromofluorobenzene (S)	%	109	70-130		11/21/22 00:48	
Toluene-d8 (S)	%	96	70-130		11/21/22 00:48	

LABORATORY CONTROL SAMPLE: 4806937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	98	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.6	93	68-125	
1,1,2-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1-Dichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethene	ug/L	20	16.8	84	66-133	
1,2,3-Trichloropropane	ug/L	20	18.2	91	62-127	
1,2-Dichlorobenzene	ug/L	20	18.1	90	70-130	
1,2-Dichloroethane	ug/L	20	18.0	90	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	100	88.3	88	47-143	
2-Hexanone	ug/L	100	89.2	89	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.1	94	57-132	
Acetone	ug/L	100	82.6	83	46-148	
Acrylonitrile	ug/L	100	77.0	77	60-143	J(v3)
Benzene	ug/L	20	18.7	94	70-130	
Bromochloromethane	ug/L	20	19.7	98	70-130	
Bromodichloromethane	ug/L	20	17.8	89	70-130	
Bromoform	ug/L	20	19.7	98	49-126	
Bromomethane	ug/L	20	12.4	62	10-165	J(v3)
Carbon disulfide	ug/L	20	18.2	91	60-141	
Carbon tetrachloride	ug/L	20	16.6	83	63-126	
Chlorobenzene	ug/L	20	19.6	98	70-130	
Chloroethane	ug/L	20	20.1	100	71-142	
Chloroform	ug/L	20	19.0	95	70-130	
Chloromethane	ug/L	20	18.9	95	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.6	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	19.0	95	62-118	
Dibromomethane	ug/L	20	19.7	99	70-130	
Ethylbenzene	ug/L	20	18.6	93	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

LABORATORY CONTROL SAMPLE: 4806937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	12.7	63	10-164	J(v3)
Methylene Chloride	ug/L	20	17.5	88	65-136	
Styrene	ug/L	20	19.8	99	70-130	
Tetrachloroethene	ug/L	20	19.4	97	64-134	
Toluene	ug/L	20	18.9	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.9	94	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	11.9	59	42-129	J(v3)
Trichloroethene	ug/L	20	19.7	98	70-130	
Trichlorofluoromethane	ug/L	20	20.5	103	65-135	
Vinyl acetate	ug/L	20	14.5	73	60-144	J(v3)
Vinyl chloride	ug/L	20	20.2	101	68-131	
Xylene (Total)	ug/L	60	56.5	94	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 4806939

Parameter	Units	35760159006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	16.4	82	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	16.4	82	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	14.3	71	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	15.4	77	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	15.7	78	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	15.6	78	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	14.6	73	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	15.0	75	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	14.6	73	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	16.1	80	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	15.0	75	70-130	
2-Butanone (MEK)	ug/L	6.7 U	100	64.6	65	47-143	
2-Hexanone	ug/L	3.2 U	100	64.9	65	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	69.6	70	57-132	
Acetone	ug/L	8.7 U	100	61.4	61	46-148	
Acrylonitrile	ug/L	3.7 U	100	58.0	58	60-143	J(M1),J(v3)
Benzene	ug/L	0.30 U	20	16.4	82	70-130	
Bromochloromethane	ug/L	0.37 U	20	16.6	83	70-130	
Bromodichloromethane	ug/L	0.19 U	20	14.5	73	70-130	
Bromoform	ug/L	0.48 U	20	15.0	75	49-126	
Bromomethane	ug/L	3.9 U	20	9.1	45	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	16.6	83	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	14.8	74	63-126	
Chlorobenzene	ug/L	0.35 U	20	16.6	83	70-130	
Chloroethane	ug/L	3.7 U	20	16.4	82	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

MATRIX SPIKE SAMPLE: 4806939		35760159006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	16.2	81	70-130	
Chloromethane	ug/L	0.43 U	20	15.1	75	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	15.6	78	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	14.6	73	70-130	
Dibromochloromethane	ug/L	0.45 U	20	15.0	75	62-118	
Dibromomethane	ug/L	0.68 U	20	16.0	80	70-130	
Ethylbenzene	ug/L	0.30 U	20	16.0	80	70-130	
Iodomethane	ug/L	3.6 U	20	5.2 I	26	10-164 J(v3)	
Methylene Chloride	ug/L	1.7 U	20	15.4	77	65-136	
Styrene	ug/L	0.26 U	20	16.0	80	70-130	
Tetrachloroethene	ug/L	0.38 U	20	17.3	86	64-134	
Toluene	ug/L	0.33 U	20	16.6	83	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	16.0	80	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	15.0	75	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	11.7	59	42-129 J(v3)	
Trichloroethene	ug/L	0.36 U	20	17.4	87	70-130	
Trichlorofluoromethane	ug/L	0.72 U	20	16.7	83	65-135	
Vinyl acetate	ug/L	1.8 U	20	9.7 I	49	60-144 J(M1),J(v3)	
Vinyl chloride	ug/L	0.39 U	20	18.4	92	68-131	
Xylene (Total)	ug/L	2.1 U	60	48.4	81	70-130	
1,2-Dichlorobenzene-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				112	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 4806938

Parameter	Units	35760159005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	8.7 U	8.7 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40 J(v2)	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

SAMPLE DUPLICATE: 4806938

Parameter	Units	35760159005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	J(v2)
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	J(v2)
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	98	98		40	
4-Bromofluorobenzene (S)	%	110	111		40	
Toluene-d8 (S)	%	96	95		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch:	872542	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004

METHOD BLANK: 4802818 Matrix: Water

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/18/22 22:10	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/18/22 22:10	

LABORATORY CONTROL SAMPLE: 4802819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.27	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	107	60-140	

MATRIX SPIKE SAMPLE: 4802820

Parameter	Units	35759412003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0067 U	0.25	0.19	78	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0079 U	0.25	0.21	83	60-140	

SAMPLE DUPLICATE: 4802821

Parameter	Units	35759412004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	0.0065 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	0.0076 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	872543	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603005, 35759603006, 35759603007, 35759603008, 35759603009, 35759603010

METHOD BLANK: 4802828 Matrix: Water
Associated Lab Samples: 35759603005, 35759603006, 35759603007, 35759603008, 35759603009, 35759603010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/19/22 04:34	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/19/22 04:34	

LABORATORY CONTROL SAMPLE: 4802829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	99	60-140	

MATRIX SPIKE SAMPLE: 4802830

Parameter	Units	35759603005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.25	0.19	76	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.25	0.20	79	60-140	

SAMPLE DUPLICATE: 4802831

Parameter	Units	35759603006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.0064 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.0075 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch: 872769

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603006, 35759603007, 35759603008

METHOD BLANK: 4804489

Matrix: Water

Associated Lab Samples: 35759603006, 35759603007, 35759603008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/18/22 11:48	

LABORATORY CONTROL SAMPLE: 4804490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	90-110	

SAMPLE DUPLICATE: 4804492

Parameter	Units	35759622003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	168	161	4	10	

SAMPLE DUPLICATE: 4804496

Parameter	Units	35759601002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	433	420	3	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch:	872790	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603009

METHOD BLANK: 4804666 Matrix: Water

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/18/22 13:13	

LABORATORY CONTROL SAMPLE: 4804667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	90-110	

SAMPLE DUPLICATE: 4804668

Parameter	Units	35759526001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	194	208	7	10	

SAMPLE DUPLICATE: 4804669

Parameter	Units	35759622006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	171	164	4	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	872977	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009

METHOD BLANK: 4805500 Matrix: Water

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603005, 35759603006, 35759603007, 35759603008, 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/18/22 18:35	

LABORATORY CONTROL SAMPLE: 4805501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812948 4812949

Parameter	Units	35759603002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.7	50	50	56.3	56.8	99	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812950 4812951

Parameter	Units	35759633002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	41.1	50	50	94.8	95.5	107	109	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	874863	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603004

METHOD BLANK: 4814146 Matrix: Water
Associated Lab Samples: 35759603004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/28/22 16:21	

LABORATORY CONTROL SAMPLE: 4814147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815240 4815241

Parameter	Units	35761580003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	41.7	50	50	94.7	94.8	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815242 4815243

Parameter	Units	35762199001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.2	50	50	56.3	56.5	96	97	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	873421	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008

METHOD BLANK: 4807565 Matrix: Water
Associated Lab Samples: 35759603001, 35759603002, 35759603003, 35759603004, 35759603005, 35759603006, 35759603007, 35759603008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/22/22 10:46	

LABORATORY CONTROL SAMPLE: 4807566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4807568 4807567

Parameter	Units	35760795002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.3	1	1	2.3	2.3	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4807569 4807570

Parameter	Units	35760949001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.035	1	1	1.0	1.0	102	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

QC Batch:	873644	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603009

METHOD BLANK: 4808789 Matrix: Water

Associated Lab Samples: 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/22/22 11:44	

LABORATORY CONTROL SAMPLE: 4808790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4808792 4808791

Parameter	Units	35757518001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.55	1	1	1.6	1.6	103	104	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4808793 4808794

Parameter	Units	35761281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.037 I	1	1	1.1	1.1	104	104	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch:	871449	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603001, 35759603002, 35759603006, 35759603007, 35759603008

METHOD BLANK:	4796584	Matrix:	Water

Associated Lab Samples: 35759603001, 35759603002, 35759603006, 35759603007, 35759603008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/15/22 07:49	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch: 871759

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759603003

METHOD BLANK: 4798408

Matrix: Water

Associated Lab Samples: 35759603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/15/22 18:33	

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.

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

QC Batch:	871761	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759603004, 35759603005, 35759603009		

METHOD BLANK: 4798422 Matrix: Water

Associated Lab Samples: 35759603004, 35759603005, 35759603009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/15/22 19:09	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Lena Road Landfill (Existing W)
Pace Project No.: 35759603

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35759603001	GW-3				
35759603002	GW-4				
35759603003	GW-5				
35759603004	GW-6				
35759603005	GW-7				
35759603006	GW-25				
35759603007	GW-26				
35759603008	GW-27R				
35759603009	GW-7 DUP				
35759603001	GW-3	EPA 8011	872542	EPA 8011	872850
35759603002	GW-4	EPA 8011	872542	EPA 8011	872850
35759603003	GW-5	EPA 8011	872542	EPA 8011	872850
35759603004	GW-6	EPA 8011	872542	EPA 8011	872850
35759603005	GW-7	EPA 8011	872543	EPA 8011	872852
35759603006	GW-25	EPA 8011	872543	EPA 8011	872852
35759603007	GW-26	EPA 8011	872543	EPA 8011	872852
35759603008	GW-27R	EPA 8011	872543	EPA 8011	872852
35759603009	GW-7 DUP	EPA 8011	872543	EPA 8011	872852
35759603010	Trip Blank 1	EPA 8011	872543	EPA 8011	872852
35759603001	GW-3	EPA 3010	871426	EPA 6010	871466
35759603002	GW-4	EPA 3010	871426	EPA 6010	871466
35759603003	GW-5	EPA 3010	871426	EPA 6010	871466
35759603004	GW-6	EPA 3010	871426	EPA 6010	871466
35759603005	GW-7	EPA 3010	871426	EPA 6010	871466
35759603006	GW-25	EPA 3010	871426	EPA 6010	871466
35759603007	GW-26	EPA 3010	871426	EPA 6010	871466
35759603008	GW-27R	EPA 3010	871426	EPA 6010	871466
35759603009	GW-7 DUP	EPA 3010	871426	EPA 6010	871466
35759603001	GW-3	EPA 3010	871425	EPA 6020	871465
35759603002	GW-4	EPA 3010	871425	EPA 6020	871465
35759603003	GW-5	EPA 3010	871425	EPA 6020	871465
35759603004	GW-6	EPA 3010	871425	EPA 6020	871465
35759603005	GW-7	EPA 3010	871425	EPA 6020	871465
35759603006	GW-25	EPA 3010	871425	EPA 6020	871465
35759603007	GW-26	EPA 3010	871425	EPA 6020	871465
35759603008	GW-27R	EPA 3010	871425	EPA 6020	871465
35759603009	GW-7 DUP	EPA 3010	871425	EPA 6020	871465
35759603001	GW-3	EPA 7470	873985	EPA 7470	874102
35759603002	GW-4	EPA 7470	873985	EPA 7470	874102
35759603003	GW-5	EPA 7470	873985	EPA 7470	874102
35759603004	GW-6	EPA 7470	873985	EPA 7470	874102
35759603005	GW-7	EPA 7470	873985	EPA 7470	874102
35759603006	GW-25	EPA 7470	873985	EPA 7470	874102
35759603007	GW-26	EPA 7470	873985	EPA 7470	874102
35759603008	GW-27R	EPA 7470	873985	EPA 7470	874102
35759603009	GW-7 DUP	EPA 7470	873985	EPA 7470	874102

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35759603001	GW-3	EPA 8260	873238		
35759603002	GW-4	EPA 8260	873238		
35759603003	GW-5	EPA 8260	873238		
35759603004	GW-6	EPA 8260	873238		
35759603005	GW-7	EPA 8260	873238		
35759603006	GW-25	EPA 8260	872792		
35759603007	GW-26	EPA 8260	872792		
35759603008	GW-27R	EPA 8260	873238		
35759603009	GW-7 DUP	EPA 8260	873238		
35759603001	GW-3	SM 2540C	872790		
35759603002	GW-4	SM 2540C	872790		
35759603003	GW-5	SM 2540C	872790		
35759603004	GW-6	SM 2540C	872790		
35759603005	GW-7	SM 2540C	872790		
35759603006	GW-25	SM 2540C	872769		
35759603007	GW-26	SM 2540C	872769		
35759603008	GW-27R	SM 2540C	872769		
35759603009	GW-7 DUP	SM 2540C	872790		
35759603001	GW-3	EPA 300.0	872977		
35759603002	GW-4	EPA 300.0	872977		
35759603003	GW-5	EPA 300.0	872977		
35759603004	GW-6	EPA 300.0	874863		
35759603005	GW-7	EPA 300.0	872977		
35759603006	GW-25	EPA 300.0	872977		
35759603007	GW-26	EPA 300.0	872977		
35759603008	GW-27R	EPA 300.0	872977		
35759603009	GW-7 DUP	EPA 300.0	872977		
35759603001	GW-3	EPA 350.1	873421		
35759603002	GW-4	EPA 350.1	873421		
35759603003	GW-5	EPA 350.1	873421		
35759603004	GW-6	EPA 350.1	873421		
35759603005	GW-7	EPA 350.1	873421		
35759603006	GW-25	EPA 350.1	873421		
35759603007	GW-26	EPA 350.1	873421		
35759603008	GW-27R	EPA 350.1	873421		
35759603009	GW-7 DUP	EPA 350.1	873644		
35759603001	GW-3	EPA 353.2	871449		
35759603002	GW-4	EPA 353.2	871449		
35759603003	GW-5	EPA 353.2	871759		
35759603004	GW-6	EPA 353.2	871761		
35759603005	GW-7	EPA 353.2	871761		
35759603006	GW-25	EPA 353.2	871449		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing W

Pace Project No.: 35759603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35759603007	GW-26	EPA 353.2	871449		
35759603008	GW-27R	EPA 353.2	871449		
35759603009	GW-7 DUP	EPA 353.2	871761		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/nubls/pas-standard-terms.pdf>

Section A: Client Information

Company Name: Manatee County Landfill		Attention: Bob Bennett	
Address: 3333 Lena Road		Company Name: Respiratory Analytical	
Braughton, FL 34211		Address: Respiratory Analytical	
Email: bob.bennett@mymanatee.org		Pace Quote: canteron.meynardi@pacelabs.com	
Phone: (941) 748-5543		Pace Project Manager: canteron.meynardi@pacelabs.com	
Requested Due Date:		Pace Profile #: 8100 Line 1	

Section B: Project Information

Report To: Bob Bennett		Company Name: Respiratory Analytical	
Copy To: Bob Bennett		Address: Respiratory Analytical	
Purchase Order #:		Pace Quote: canteron.meynardi@pacelabs.com	
Project Name: Lena Rd Landfill (Existing Wells)		Pace Project Manager: canteron.meynardi@pacelabs.com	
Project #:		Pace Profile #: 8100 Line 1	

Section C: Requested Analysis

Requested Analysis	Y/N	Preservatives	Unpreserved	Other	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)
CL, NO3, TDS	X				X	X	
Metals - App I+Fe, Na, Hg	X				X	X	
8260 App I	X				X	X	
6020 - Arsenic	X				X	X	
Trip Blank 8011	X				X	X	

ITEM #	MATRIX	CODE	SAMPLE TYPE (see valid codes to left)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	Ice (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
				START	END													
13	GW-15	WT	WT															
14	GW-16	WT	WT															
15	GW-17	WT	WT															
16	GW-18	WT	WT															
17	GW-19	WT	WT															
18	GW-20	WT	WT															
19	GW-21	WT	WT															
20	GW-22	WT	WT															
21	GW-23	WT	WT															
22	GW-24	WT	WT															
23	GW-25	WT	WT															
24	GW-26	WT	WT															

FAC ID: 44795, LENA RD COUNTY LF		Field Data: Static Water Level Before Purge, observation	
RELINQUISHED BY / AFFILIATION		DATE	
H. Bousquet / PAC		11/14/22 17:47	
Signature		11/14/22 19:00	
RELINQUISHED BY / AFFILIATION		DATE	
H. Bousquet / PAC		11/14/22 21:28	
Signature		11/14/22 21:28	
SAMPLER NAME AND SIGNATURE		DATE SIGNED	
H. Bousquet		11-14-22	
PRINT Name of SAMPLER		DATE SIGNED	
H. Bousquet		11-14-22	
SIGNATURE of SAMPLER		DATE SIGNED	
H. Bousquet		11-14-22	

Sample Condition Upon Receipt Form (SCUR)

WO#: 35759603

Project #

Project Manager:

Client:

PM: CEM

Due Date: 12/01/22

CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Initials: CPI

Thermometer Used:

F399

Date:

11/14/22

Time:

2147

State of Origin:

☐ For WA projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 3.4 (Visual) 0.0 (Correction Factor) 3.4 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ 0.2 (Visual) (Correction Factor) 0.2 (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

Seals intact: ☐ Yes ☐ No

Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete)

Shorted Date:

Shorted Time:

Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☒ Yes ☐ No ☐ N/A	GW-27B 1/3 = headspace
Headspace in VOA Vials? (>6mm):	☒ Yes ☐ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):



Sample Condition Upon Receipt Form (SCUR)

WO#: 35759603

Project #
Project Manager:
Client:

PM: CEM Due Date: 12/01/22
CLIENT: MANCOU-SW

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T202

Date: 11/14/22

Time: 1747

Initials: AS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 4.8 (Visual) +0.2 (Correction Factor) 5.0 (Actual)
Cooler #2 Temp. $^{\circ}\text{C}$ 4.5 (Visual) (Correction Factor) 4.5 (Actual)
Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

☒ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☐ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☐ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☐ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☐ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☐ N/A	
Sufficient Volume	☐ Yes ☐ No ☐ N/A	
Correct Containers Used	☐ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☐ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

SAMPLING DATA									
SAMPLED BY (PRINT) / AFFILIATION: H. BOWEN / RACE #1. EUGENE		SAMPLER(S) SIGNATURE(S)		SAMPLING INITIATED AT: 1313	SAMPLING ENDED AT: 1323				
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y N		FILTER SIZE: _____ µm				
FIELD DECONTAMINATION: PUMP Y N		TUBING Y N (replaced)		DUPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0-4	1	PE	1L	CWCL	0	6.7	CHLORIDE	APP	<300
↓	1	PE	250 mL + H ₂ O ₂		↓	<2	NO METALS	↓	↓
↓	2	PE	250 mL + H ₂ O ₂		↓	<2	NH ₃	↓	↓
↓	3	CG	10 mL	WOL	↓	6.7	CD ₃ & DCP	↓	↓
↓	3	CG	10 mL + HCl		↓	<2	8260	↓	↓
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.O. LENA LF		SITE LOCATION: 2303 LENA RD. GRADENTON	
WELL NO: GW-5	SAMPLE ID: GW-5	DATE: 11-14-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH (feet to feet):	0.16 - 19.16	STATIC DEPTH TO WATER (feet):	7.27	PURGE PUMP TYPE OR BAILER:	RP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)									
$= (19.16 \text{ feet} - 7.27 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.9024 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)									
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	PURGING INITIATED AT:	1320	PURGING ENDED AT:	1400	TOTAL VOLUME PURGED (gallons):	3.00

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HOWARD BOWLES/PAETEC LABOR				SAMPLE(S) SIGNATURE(S):			PUMPING INITIATED AT: 1/4/11		SAMPLING ENDED AT: 1/4/11	
PUMP OR TUBING DEPTH IN WELL (feet): 13'				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y ☒ N ☒		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y ☐ N ☐ TUBING Y ☐ N (replaced) ☒							DUPLICATE: Y ☐ N ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
5-5	1	PE	250mL	cool	0	6.9	4 metals	APP	< 300	
↓	1	PE	250mL	#103	↓	< 3	metals	↓	↓	
↓	2	PE	250mL	#103	↓	< 3	metals	↓	↓	
↓	3	CG	40mL	cool	↓	6.9	PH2	↓	↓	
↓	3	CG	40mL	HCL	↓	< 2	8260	↓	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C LENA LF	SITE LOCATION: 3333 LENA RD. BRADENTON	
WELL NO: GW-6	SAMPLE ID: GW-6	DATE: 11-14-22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4.04 feet to 19.04 feet	STATIC DEPTH TO WATER (feet): 7.12	PURGE PUMP TYPE OR BAILER: EP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 19.04 feet - 7.12 feet X 0.16 gallons/foot = 1.9072 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	PURGING INITIATED AT: 1420	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons): 3.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1440	2.00	2.00	0.10	7.65	6.94	26.5	1188	1.55	1.91	clear	none
1445	0.50	2.50	0.10	7.65	6.83	26.5	1186	1.70	1.89	↓	↓
1450	0.50	3.00	0.10	7.65	6.94	26.5	1184	1.74	1.89	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT AFFILIATION): HOWARD DUBOIS/PACE				SAMPLER(S) SIGNATURE(S): H. Dubois				SAMPLING INITIATED AT: 1451		SAMPLING ENDED AT: 1501	
PUMP OR TUBING DEPTH IN WELL (feet): 12'				TUBING MATERIAL CODE: HDPE/S				FIELD-FILTERED: Y ☒ N ☐		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y ☐ N ☒				TUBING Y ☐ N (replaced) ☒				DUPLICATE: Y ☐ N ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
↓	1	SE	1L	COOL	0	6.9	C/N/NO3/US		APP		
	1	SE	250 mL	HNO3	↓	<2	METALS		↓		
	1	SE	250 mL	HNO3	↓	<2	METALS		↓		
	3	CS	40 mL	COOL	↓	6.9	EDTA/DRP		↓		
3	CS	40 mL	HCL	↓	<2	8260		↓		↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENT LF SITE LOCATION: 3333 LENT RD. BAYVIEW
WELL NO: GW-7 SAMPLE ID: GW-7 DATE: 11-14-22

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/4 WELL SCREEN INTERVAL DEPTH: 20.04 feet TO WATER (feet): 9.39 PURGE PUMP TYPE OR BAILER: RP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
= 20.04 feet - 9.39 feet X 0.16 gallons/foot = 1.704 gallons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 1.704 gallons + (0.0006 gallons/foot X 15 feet) + 0 gallons = 2.80 gallons
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING INITIATED AT: 1510 PURGING ENDED AT: 1538 TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1528	0.50	0.50	0.10	9.39	6.67	26.6	520	1.84	3.20	clear	none
1532	0.50	1.00	0.10	9.39	6.68	26.6	520	1.81	3.18	↓	↓
1536	0.50	1.50	0.10	9.70	6.69	26.6	521	1.76	3.31	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Howard Robles SAMPLER(S) SIGNATURE(S): H. Robles
PUMP OR TUBING DEPTH IN WELL (feet): 15 TUBING MATERIAL CODE: HDPE/S FIELD-FILTERED: Y (N) FILTER SIZE: 0 μm
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW-7	1	GE	1L	COOL	0	6.8	CL/MS TOX	APP	< 300
↓	1	GE	250 mL	HNO3	↓	< 2	METALS	↓	↓
↓	1	GE	250 mL	HNO3	↓	< 2	NH3	↓	↓
↓	2	GE	40 mL	COOL	↓	6.8	EDTA/DRP	↓	↓
↓	3	GE	40 mL	FLCL	↓	< 2	8260	↓	↓

REMARKS: DUPLICATE TAKEN

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

PURGING DATA

SAMPLING DATA

	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA LANDFILL	SITE LOCATION: 3333 LENA RD. BAYDENTON
WELL NO: GW-26	DATE: 11-14-22

PURGING DATA											
WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8.74 feet to 23.94 feet	STATIC DEPTH TO WATER (feet): 7.90	PURGE PUMP TYPE OR BAILER: EP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 23.94 - 7.90 feet X 0.16 gallons/foot = 2.5664 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13'	PURGING INITIATED AT: 2935	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (gallons): 4.00							

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1001	2.60	2.60	0.128	8.00	6.43	25.5	434.0	1.77	7.15	TANNIC	none
1005	0.70	3.30	0.128	8.00	6.43	25.5	433.4	1.31	5.18	↓	↓
1015	0.70	4.00	0.100	8.00	6.42	25.5	435.1	1.38	7.59	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA												
SAMPLED BY (PRINT) / APPLICATION: HW/PA/BOB/SACE				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT: 1014	SAMPLING ENDED AT: 1026			
PUMP OR TUBING DEPTH IN WELL (feet): 13'				TUBING MATERIAL CODE: HDE/S				FIELD-FILTERED: Y ☒ N ☐ Filtration Equipment Type: 2				
FIELD DECONTAMINATION: PUMP Y ☒ N ☐				TUBING Y ☒ N (replaced) ☐				DUPLICATE: Y ☒ N ☐				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CORE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
GW-26 ↓	1	SE	1L	COOL	0	6.4	CL	10315	APP	<300		
	1	SE	250mL	TRIS	↓	<2	METALS	↓	↓	↓		
	2	CG	250mL	25% HCL	↓	<2	NH3	↓	↓	↓		
	3	CG	40mL	DDC	↓	6.4	ELP & DBCP	↓	↓	↓		
	3	CG	40mL	HCL	↓	<2	8260	↓	↓	↓		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA Lf	SITE LOCATION: 3333 LENA RD. GRADENTON
WELL NO: GW-27R	SAMPLE ID: GW-27R
	DATE: 11-14-22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 22.1 feet to 22.1 feet	STATIC DEPTH TO WATER (feet): 6.22	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 22.1 feet - 6.22 feet X 0.16 gallons/foot = 2.5888 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1115	TOTAL VOLUME PURGED (gallons): 11.50

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: HAWAIIAN BUREAU OF PESTICIDES				SAMPLER(S) SIGNATURE(S) HAWAIIAN BUREAU OF PESTICIDES			SAMPLING INITIATED AT: 11/4		SAMPLING ENDED AT: 11/26	
PUMP OR TUBING DEPTH IN WELL (feet): 13'				TUBING MATERIAL CODE: HDPE/S		FIELD-FILTERED: Y N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)		DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
0-27R	1	PE	1L	CDDL	0	6.7	CDDL		APR	<300
	1	PE	250mL	HNO3	↓	<2	MFA/S		↓	↓
	1	PE	250mL	H2SO4	↓	<2	MFA/S		↓	↓
	2	CS	100mL	COOL	↓	6.7	CDDL & MFA/S		↓	↓
	3	CS	40mL	HCL	↓	<2	S260		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater)

December 13, 2022

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill (Existing)
Pace Project No.: 35759946

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35759946001	GW-8	Water	11/15/22 09:14	11/15/22 16:50
35759946002	GW-9	Water	11/15/22 10:01	11/15/22 16:50
35759946003	GW-10	Water	11/15/22 10:54	11/15/22 16:50
35759946004	GW-11	Water	11/15/22 11:51	11/15/22 16:50
35759946005	GW-12	Water	11/15/22 12:44	11/15/22 16:50
35759946006	GW-13	Water	11/15/22 13:25	11/15/22 16:50
35759946007	GW-14	Water	11/15/22 14:34	11/15/22 16:50
35759946008	Equipment Blank	Water	11/15/22 08:30	11/15/22 16:50
35759946009	Trip Blank 8011	Water	11/15/22 00:01	11/15/22 16:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35759946001	GW-8	EPA 8011	LJM	2	PASI-O
		EPA 6010	KPP	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759946002	GW-9	EPA 8011	LJM	2	PASI-O
		EPA 6010	KPP	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759946003	GW-10	EPA 8011	LJM	2	PASI-O
		EPA 6010	KPP	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759946004	GW-11	EPA 8011	LJM	2	PASI-O
		EPA 6010	KPP	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35759946005	GW-12	EPA 8011	TSW	2	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35759946006	GW-13	EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
35759946007	GW-14	EPA 353.2	KW1	1	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
35759946008	Equipment Blank	EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
35759946009	Trip Blank 8011	EPA 8260	AST	48	PASI-O
		EPA 353.2	KW1	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
PASI-O = Pace Analytical Services - Ormond Beach					

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 872649

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35759946001

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4803756)
 - Selenium
- MSD (Lab ID: 4803757)
 - Selenium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 7470

Description: 7470 Mercury

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 7470 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 873699

J(v1): The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 4811692)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- DUP (Lab ID: 4809035)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- Equipment Blank (Lab ID: 35759946008)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- GW-10 (Lab ID: 35759946003)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- GW-11 (Lab ID: 35759946004)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- GW-8 (Lab ID: 35759946001)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- GW-9 (Lab ID: 35759946002)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- LCS (Lab ID: 4811693)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- MS (Lab ID: 4809036)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873699

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4811692)
 - Acetone
 - Bromomethane
 - Iodomethane
- DUP (Lab ID: 4809035)
 - Acetone
 - Bromomethane
 - Iodomethane
- Equipment Blank (Lab ID: 35759946008)
 - Acetone
 - Bromomethane
 - Iodomethane
- GW-10 (Lab ID: 35759946003)
 - Acetone
 - Bromomethane
 - Iodomethane
- GW-11 (Lab ID: 35759946004)
 - Acetone
 - Bromomethane
 - Iodomethane
- GW-8 (Lab ID: 35759946001)
 - Acetone
 - Bromomethane
 - Iodomethane
- GW-9 (Lab ID: 35759946002)
 - Acetone
 - Bromomethane
 - Iodomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4811693)
 - Acetone
 - Bromomethane
 - Iodomethane
- MS (Lab ID: 4809036)
 - Acetone
 - Bromomethane
 - Iodomethane

QC Batch: 873917

J(v1): The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 4810457)
 - 4-Methyl-2-pentanone (MIBK)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873917

J(v1): The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- DUP (Lab ID: 4810459)
 - 4-Methyl-2-pentanone (MIBK)
- GW-12 (Lab ID: 35759946005)
 - 4-Methyl-2-pentanone (MIBK)
- GW-13 (Lab ID: 35759946006)
 - 4-Methyl-2-pentanone (MIBK)
- GW-14 (Lab ID: 35759946007)
 - 4-Methyl-2-pentanone (MIBK)
- LCS (Lab ID: 4810458)
 - 4-Methyl-2-pentanone (MIBK)
- MS (Lab ID: 4810460)
 - 4-Methyl-2-pentanone (MIBK)

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4810457)
 - Acetone
 - Bromomethane
- DUP (Lab ID: 4810459)
 - Acetone
 - Bromomethane
- GW-12 (Lab ID: 35759946005)
 - Acetone
 - Bromomethane
- GW-13 (Lab ID: 35759946006)
 - Acetone
 - Bromomethane
- GW-14 (Lab ID: 35759946007)
 - Acetone
 - Bromomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4810458)
 - Acetone
 - Bromomethane
- MS (Lab ID: 4810460)
 - Acetone
 - Bromomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 873699

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35761448002

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4809036)
- Dibromomethane

QC Batch: 873917

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35759984006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4810460)
- 1,2-Dichloroethane
- Bromochloromethane
- Chloromethane
- Dibromomethane
- Iodomethane

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 873917

J(R1): Estimated Value. RPD value was outside control limits.

- DUP (Lab ID: 4810459)
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene

Additional Comments:

Analyte Comments:

QC Batch: 873917

L: Off-scale high. Actual value is known to be greater than value given.

- DUP (Lab ID: 4810459)
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

Analyte Comments:

QC Batch: 873917

L: Off-scale high. Actual value is known to be greater than value given.

- DUP (Lab ID: 4810459)
 - Trichloroethene
 - Vinyl chloride
- MS (Lab ID: 4810460)
 - 1,1-Dichloroethene
 - cis-1,2-Dichloroethene
 - trans-1,2-Dichloroethene
 - Trichloroethene
 - Vinyl chloride

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for SM 2540C by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ unpres

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

8 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-8		Lab ID: 35759946001		Collected: 11/15/22 09:14		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.75	Std. Units			1		11/15/22 09:14		
Field Temperature	25.9	deg C			1		11/15/22 09:14		
Field Specific Conductance	587	umhos/cm			1		11/15/22 09:14		
Oxygen, Dissolved	1.86	mg/L			1		11/15/22 09:14	7782-44-7	
Turbidity	1.87	NTU			1		11/15/22 09:14		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 09:59	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:31	11/19/22 09:59	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	17.7	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:10	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:10	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:10	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:10	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:10	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:10	7440-50-8	
Iron	45.6	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:10	7439-89-6	
Nickel	1.1 I	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:10	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:10	7440-22-4	
Sodium	19.1	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:10	7440-23-5	
Vanadium	2.1 I	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:10	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:10	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.52 I	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:24	7440-36-0	
Arsenic	4.7	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:24	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:24	7439-92-1	
Selenium	0.69 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:24	7782-49-2	J(M1)
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 13:08	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/22/22 15:09	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 15:09	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:09	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 15:09	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-8 **Lab ID: 35759946001** Collected: 11/15/22 09:14 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 15:09	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 15:09	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 15:09	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/22/22 15:09	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 15:09	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 15:09	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 15:09	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 15:09	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 15:09	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 15:09	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 15:09	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 15:09	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 15:09	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 15:09	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 15:09	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 15:09	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 15:09	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 15:09	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 15:09	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 15:09	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 15:09	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 15:09	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 15:09	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:09	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/22/22 15:09	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 15:09	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 15:09	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 15:09	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 15:09	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 15:09	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:09	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:09	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 15:09	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 15:09	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 15:09	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 15:09	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 15:09	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 15:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/22/22 15:09	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/22/22 15:09	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/22/22 15:09	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-8		Lab ID: 35759946001		Collected: 11/15/22 09:14		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	380	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	18.0	mg/L	5.0	2.5	1		11/19/22 02:12	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.62	mg/L	0.050	0.035	1		11/22/22 13:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/16/22 19:57	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-9 **Lab ID:** 35759946002 Collected: 11/15/22 10:01 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: 6.88 Pace Analytical Services: 26.7								
Field pH	6.58	Std. Units			1		11/15/22 10:01		
Field Temperature	26.9	deg C			1		11/15/22 10:01		
Field Specific Conductance	305.7	umhos/cm			1		11/15/22 10:01		
Oxygen, Dissolved	1.54	mg/L			1		11/15/22 10:01	7782-44-7	
Turbidity	3.05	NTU			1		11/15/22 10:01		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach								
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 10:14	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/17/22 17:31	11/19/22 10:14	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	5.8 I	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:13	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:13	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:13	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:13	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:13	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:13	7440-50-8	
Iron	536	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:13	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:13	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:13	7440-22-4	
Sodium	1.6 I	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:13	7440-23-5	
Vanadium	6.0 I	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:13	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:35	7440-36-0	
Arsenic	3.1	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:35	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:35	7439-92-1	
Selenium	0.23 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:35	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach								
Mercury	0.090 U	ug/L	0.20	0.090	1	11/23/22 10:23	11/28/22 13:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Acetone	8.7 U	ug/L	25.0	8.7	1		11/22/22 15:32	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 15:32	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:32	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 15:32	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-9		Lab ID: 35759946002		Collected: 11/15/22 10:01		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 15:32	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 15:32	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 15:32	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/22/22 15:32	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 15:32	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 15:32	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 15:32	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 15:32	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 15:32	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 15:32	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 15:32	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 15:32	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 15:32	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 15:32	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 15:32	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 15:32	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 15:32	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 15:32	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 15:32	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 15:32	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 15:32	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 15:32	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 15:32	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:32	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/22/22 15:32	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 15:32	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 15:32	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 15:32	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 15:32	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 15:32	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:32	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 15:32	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 15:32	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 15:32	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 15:32	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 15:32	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 15:32	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 15:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/22/22 15:32	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/22/22 15:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/22/22 15:32	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-9		Lab ID: 35759946002		Collected: 11/15/22 10:01		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	180	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	5.5	mg/L	5.0	2.5	1		11/19/22 02:34	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.30	mg/L	0.050	0.035	1		11/22/22 13:26	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/16/22 20:00	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-10		Lab ID: 35759946003		Collected: 11/15/22 10:54		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	7.12	Std. Units			1		11/15/22 10:54		
Field Temperature	26.0	deg C			1		11/15/22 10:54		
Field Specific Conductance	703	umhos/cm			1		11/15/22 10:54		
Oxygen, Dissolved	1.31	mg/L			1		11/15/22 10:54	7782-44-7	
Turbidity	7.95	NTU			1		11/15/22 10:54		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/17/22 17:31	11/19/22 10:44	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/17/22 17:31	11/19/22 10:44	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	23.3	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:16	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:16	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:16	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:16	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:16	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:16	7440-50-8	
Iron	14500	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:16	7439-89-6	
Nickel	1.6 I	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:16	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:16	7440-22-4	
Sodium	5.4	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:16	7440-23-5	
Vanadium	40.4	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:16	7440-62-2	
Zinc	26.8	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:16	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:37	7440-36-0	
Arsenic	106	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:37	7440-38-2	
Lead	0.48 I	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:37	7439-92-1	
Selenium	1.4 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:37	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.60	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:31	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/22/22 16:41	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 16:41	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 16:41	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 16:41	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-10 **Lab ID:** 35759946003 **Collected:** 11/15/22 10:54 **Received:** 11/15/22 16:50 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 16:41	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 16:41	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 16:41	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/22/22 16:41	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 16:41	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 16:41	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 16:41	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 16:41	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 16:41	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 16:41	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 16:41	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 16:41	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 16:41	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 16:41	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 16:41	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 16:41	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 16:41	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 16:41	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 16:41	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 16:41	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 16:41	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 16:41	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 16:41	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 16:41	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/22/22 16:41	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 16:41	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 16:41	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 16:41	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 16:41	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 16:41	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 16:41	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 16:41	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 16:41	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 16:41	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 16:41	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 16:41	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 16:41	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 16:41	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 16:41	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 16:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/22/22 16:41	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/22/22 16:41	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/22/22 16:41	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-10		Lab ID: 35759946003		Collected: 11/15/22 10:54		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	395	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	6.9	mg/L	5.0	2.5	1		11/28/22 22:54	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.87	mg/L	0.050	0.035	1		11/22/22 13:28	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.090	mg/L	0.050	0.025	1		11/16/22 20:58	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-11		Lab ID: 35759946004		Collected: 11/15/22 11:51		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.64	Std. Units			1		11/15/22 11:51		
Field Temperature	25.6	deg C			1		11/15/22 11:51		
Field Specific Conductance	645	umhos/cm			1		11/15/22 11:51		
Oxygen, Dissolved	0.68	mg/L			1		11/15/22 11:51	7782-44-7	
Turbidity	1.01	NTU			1		11/15/22 11:51		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/17/22 17:31	11/19/22 10:58	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/17/22 17:31	11/19/22 10:58	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	18.4	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:19	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:19	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:19	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:19	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:19	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:19	7440-50-8	
Iron	189	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:19	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:19	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:19	7440-22-4	
Sodium	15.8	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:19	7440-23-5	
Vanadium	3.9 I	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:19	7440-62-2	
Zinc	27.0	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:19	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	3.8	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:40	7440-36-0	
Arsenic	4.9	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:40	7440-38-2	
Lead	0.32 I	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:40	7439-92-1	
Selenium	0.35 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:40	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.10 I	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:42	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/22/22 18:13	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 18:13	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 18:13	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 18:13	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-11 **Lab ID: 35759946004** Collected: 11/15/22 11:51 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 18:13	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 18:13	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 18:13	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/22/22 18:13	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 18:13	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 18:13	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 18:13	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 18:13	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 18:13	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 18:13	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 18:13	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 18:13	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 18:13	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 18:13	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 18:13	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 18:13	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 18:13	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 18:13	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 18:13	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 18:13	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 18:13	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 18:13	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 18:13	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 18:13	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/22/22 18:13	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 18:13	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 18:13	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 18:13	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 18:13	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 18:13	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 18:13	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 18:13	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 18:13	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 18:13	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 18:13	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 18:13	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 18:13	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 18:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/22/22 18:13	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/22/22 18:13	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		11/22/22 18:13	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-11		Lab ID: 35759946004		Collected: 11/15/22 11:51		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	423	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	23.4	mg/L	5.0	2.5	1		11/19/22 03:20	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.10	mg/L	0.050	0.035	1		11/22/22 13:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.048 I	mg/L	0.050	0.025	1		11/16/22 20:06	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-12 **Lab ID: 35759946005** Collected: 11/15/22 12:44 Received: 11/15/22 16:50 Matrix: Water

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

Field Data

Analytical Method:

Pace Analytical Services - Ormond Beach

Field pH	6.95	Std. Units			1		11/15/22 12:44		
Field Temperature	27.4	deg C			1		11/15/22 12:44		
Field Specific Conductance	654	umhos/cm			1		11/15/22 12:44		
Oxygen, Dissolved	1.17	mg/L					11/15/22 12:44	7782-44-7	
Turbidity	3.8	NTU		3.86	1		11/15/22 12:44		

8011 GCS EDB and DBCP

Analytical Method: EPA 8011 Preparation Method: EPA 8011

Pace Analytical Services - Ormond Beach

1,2-Dibromo-3-chloropropane	0.0066 U	ug/L	0.021	0.0066	1	11/18/22 18:00	11/19/22 12:44	96-12-8	
1,2-Dibromoethane (EDB)	0.0077 U	ug/L	0.010	0.0077	1	11/18/22 18:00	11/19/22 12:44	106-93-4	

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Barium	43.0	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:28	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:28	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:28	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:28	7440-47-3	
Cobalt	1.5 I	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:28	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:28	7440-50-8	
Iron	2210	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:28	7439-89-6	
Nickel	1.2 I	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:28	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:28	7440-22-4	
Sodium	9.1	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:28	7440-23-5	
Vanadium	42.2	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:28	7440-62-2	
Zinc	73.6	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:28	7440-66-6	

6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Antimony	2.3	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:42	7440-36-0	
Arsenic	11.7	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:42	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:42	7439-92-1	
Selenium	1.8 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:42	7782-49-2	
Thallium	0.16 I	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:42	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470 Preparation Method: EPA 7470

Pace Analytical Services - Ormond Beach

Mercury	0.11 I	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:45	7439-97-6	

8260 MSV

Analytical Method: EPA 8260

Pace Analytical Services - Ormond Beach

Acetone	8.7 U	ug/L	25.0	8.7	1		11/22/22 23:52	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 23:52	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 23:52	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 23:52	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-12 **Lab ID: 35759946005** Collected: 11/15/22 12:44 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 23:52	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 23:52	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 23:52	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/22/22 23:52	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 23:52	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 23:52	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 23:52	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 23:52	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 23:52	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 23:52	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 23:52	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 23:52	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 23:52	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 23:52	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 23:52	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 23:52	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 23:52	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 23:52	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 23:52	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 23:52	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 23:52	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 23:52	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 23:52	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 23:52	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/22/22 23:52	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 23:52	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 23:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 23:52	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 23:52	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 23:52	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 23:52	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 23:52	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 23:52	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 23:52	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 23:52	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 23:52	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 23:52	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 23:52	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 23:52	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 23:52	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 23:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/22/22 23:52	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		11/22/22 23:52	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		11/22/22 23:52	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-12 Lab ID: 35759946005 Collected: 11/15/22 12:44 Received: 11/15/22 16:50 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	399	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	8.2	mg/L	5.0	2.5	1		11/19/22 03:43	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	1.3	mg/L	0.050	0.035	1		11/22/22 13:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.068	mg/L	0.050	0.025	1		11/16/22 20:07	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-13		Lab ID: 35759946006		Collected: 11/15/22 13:25		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.95	Std. Units			1		11/15/22 13:25		
Field Temperature	28.2	deg C			1		11/15/22 13:25		
Field Specific Conductance	1012	umhos/cm			1		11/15/22 13:25		
Oxygen, Dissolved	1.70	mg/L			1		11/15/22 13:25	7782-44-7	
Turbidity	4.21	NTU			1		11/15/22 13:25		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/18/22 18:00	11/19/22 13:10	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/18/22 18:00	11/19/22 13:10	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	28.3	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:31	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:31	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:31	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:31	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:31	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:31	7440-50-8	
Iron	6070	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:31	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:31	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:31	7440-22-4	
Sodium	12.9	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:31	7440-23-5	
Vanadium	7.1 I	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:31	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:31	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:50	7440-36-0	
Arsenic	10.2	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:50	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:50	7439-92-1	
Selenium	1.2 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:50	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:47	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 00:38	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 00:38	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 00:38	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 00:38	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-13 **Lab ID: 35759946006** Collected: 11/15/22 13:25 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 00:38	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 00:38	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 00:38	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 00:38	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 00:38	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 00:38	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 00:38	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 00:38	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 00:38	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 00:38	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 00:38	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 00:38	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 00:38	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 00:38	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 00:38	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 00:38	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 00:38	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 00:38	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 00:38	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 00:38	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 00:38	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 00:38	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 00:38	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 00:38	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 00:38	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 00:38	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 00:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 00:38	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 00:38	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 00:38	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 00:38	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 00:38	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 00:38	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 00:38	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 00:38	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 00:38	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 00:38	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 00:38	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 00:38	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 00:38	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 00:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/23/22 00:38	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/23/22 00:38	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/23/22 00:38	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-13		Lab ID: 35759946006		Collected: 11/15/22 13:25		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	580	mg/L	10.0	10.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	13.6	mg/L	5.0	2.5	1		11/28/22 23:16	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	3.9	mg/L	0.050	0.035	1		11/22/22 13:34	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.032 I	mg/L	0.050	0.025	1		11/16/22 20:09	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-14		Lab ID: 35759946007		Collected: 11/15/22 14:34		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	7.15	Std. Units			1		11/15/22 14:34		
Field Temperature	27.6	deg C			1		11/15/22 14:34		
Field Specific Conductance	773	umhos/cm			1		11/15/22 14:34		
Oxygen, Dissolved	1.70	mg/L			1		11/15/22 14:34	7782-44-7	
Turbidity	5.10	NTU			1		11/15/22 14:34		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/18/22 18:00	11/19/22 13:23	96-12-8	
1,2-Dibromoethane (EDB)	0.0077 U	ug/L	0.010	0.0077	1	11/18/22 18:00	11/19/22 13:23	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	32.7	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:34	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:34	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:34	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:34	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:34	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:34	7440-50-8	
Iron	727	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:34	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:34	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:34	7440-22-4	
Sodium	4.3	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:34	7440-23-5	
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:34	7440-62-2	
Zinc	26.9	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:34	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:53	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:53	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:53	7439-92-1	
Selenium	1.5 I	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:53	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:54	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 02:33	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 02:33	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 02:33	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 02:33	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-14 **Lab ID: 35759946007** Collected: 11/15/22 14:34 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 02:33	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 02:33	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 02:33	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 02:33	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 02:33	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 02:33	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 02:33	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 02:33	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 02:33	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 02:33	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 02:33	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 02:33	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 02:33	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 02:33	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 02:33	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 02:33	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 02:33	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 02:33	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 02:33	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 02:33	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 02:33	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 02:33	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 02:33	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 02:33	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 02:33	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 02:33	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 02:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 02:33	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 02:33	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 02:33	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 02:33	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 02:33	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 02:33	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 02:33	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 02:33	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 02:33	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 02:33	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 02:33	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 02:33	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 02:33	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 02:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/23/22 02:33	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/23/22 02:33	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/23/22 02:33	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: GW-14 Lab ID: 35759946007 Collected: 11/15/22 14:34 Received: 11/15/22 16:50 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	461	mg/L	5.0	5.0	1		11/18/22 17:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	4.1 I	mg/L	5.0	2.5	1		11/28/22 23:37	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.41	mg/L	0.050	0.035	1		11/22/22 13:36	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.097	mg/L	0.050	0.025	1		11/16/22 20:53	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: Equipment Blank Lab ID: 35759946008 Collected: 11/15/22 08:30 Received: 11/15/22 16:50 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/18/22 18:00	11/19/22 13:36	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/18/22 18:00	11/19/22 13:36	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	0.84 U	ug/L	10.0	0.84	1	11/18/22 01:10	11/24/22 02:37	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 01:10	11/24/22 02:37	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 01:10	11/24/22 02:37	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 01:10	11/24/22 02:37	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 01:10	11/24/22 02:37	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 01:10	11/24/22 02:37	7440-50-8	
Iron	25.0 U	ug/L	40.0	25.0	1	11/18/22 01:10	11/24/22 02:37	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:37	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 01:10	11/24/22 02:37	7440-22-4	
Sodium	0.54 U	mg/L	2.0	0.54	1	11/18/22 01:10	11/24/22 02:37	7440-23-5	
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/18/22 01:10	11/24/22 02:37	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 01:10	11/24/22 02:37	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:55	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	11/18/22 01:10	11/19/22 12:55	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 01:10	11/19/22 12:55	7439-92-1	
Selenium	0.20 U	ug/L	2.0	0.20	1	11/18/22 01:10	11/19/22 12:55	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 01:10	11/19/22 12:55	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 07:26	11/29/22 09:56	7439-97-6	
8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	9.5 I	ug/L	25.0	8.7	1		11/22/22 11:42	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/22/22 11:42	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 11:42	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/22/22 11:42	74-97-5	
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/22/22 11:42	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/22/22 11:42	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/22/22 11:42	74-83-9	J(v2)
2-Butanone (MEK)	24.2 I	ug/L	50.0	6.7	1		11/22/22 11:42	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/22/22 11:42	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/22/22 11:42	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/22/22 11:42	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/22/22 11:42	75-00-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: Equipment Blank **Lab ID: 35759946008** Collected: 11/15/22 08:30 Received: 11/15/22 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/22/22 11:42	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/22/22 11:42	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/22/22 11:42	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/22/22 11:42	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/22/22 11:42	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/22/22 11:42	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/22/22 11:42	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/22/22 11:42	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/22/22 11:42	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/22/22 11:42	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/22/22 11:42	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/22/22 11:42	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/22/22 11:42	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/22/22 11:42	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/22/22 11:42	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/22/22 11:42	100-41-4	
2-Hexanone	6.2 I	ug/L	25.0	3.2	1		11/22/22 11:42	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/22/22 11:42	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/22/22 11:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/22/22 11:42	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/22/22 11:42	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/22/22 11:42	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/22/22 11:42	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/22/22 11:42	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/22/22 11:42	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 11:42	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/22/22 11:42	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/22/22 11:42	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/22/22 11:42	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/22/22 11:42	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/22/22 11:42	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/22/22 11:42	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/22/22 11:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/22/22 11:42	460-00-4	
Toluene-d8 (S)	93	%	70-130		1		11/22/22 11:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		11/22/22 11:42	2199-69-1	

2540C Total Dissolved Solids

Analytical Method: SM 2540C

Pace Analytical Services - Ormond Beach

Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1		11/18/22 17:54

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Pace Analytical Services - Ormond Beach

Chloride	2.5 U	mg/L	5.0	2.5	1		11/19/22 04:51	16887-00-6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: Equipment Blank		Lab ID: 35759946008		Collected: 11/15/22 08:30		Received: 11/15/22 16:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/22/22 13:38	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/16/22 19:56	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Sample: Trip Blank 8011		Lab ID: 35759946009	Collected: 11/15/22 00:01	Received: 11/15/22 16:50	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/18/22 18:00	11/19/22 13:49	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/18/22 18:00	11/19/22 13:49	106-93-4	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch: 873985

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946001, 35759946002

METHOD BLANK: 4810843

Matrix: Water

Associated Lab Samples: 35759946001, 35759946002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/28/22 12:29	

LABORATORY CONTROL SAMPLE: 4810844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4810845 4810846

Parameter	Units	35759603001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.090 U	2	2	2.2	2.2	108	108	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	874661	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008

METHOD BLANK: 4813210 Matrix: Water

Associated Lab Samples: 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/29/22 13:00	

LABORATORY CONTROL SAMPLE: 4813211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4813212 4813213

Parameter	Units	35759946003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.60	2	2	2.3	2.2	84	78	75-125	6	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872650	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

METHOD BLANK: 4803758

Matrix: Water

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/24/22 02:04	
Beryllium	ug/L	0.17 U	4.0	0.17	11/24/22 02:04	
Cadmium	ug/L	0.33 U	1.0	0.33	11/24/22 02:04	
Chromium	ug/L	1.7 U	5.0	1.7	11/24/22 02:04	
Cobalt	ug/L	0.96 U	10.0	0.96	11/24/22 02:04	
Copper	ug/L	2.6 U	5.0	2.6	11/24/22 02:04	
Iron	ug/L	25.0 U	40.0	25.0	11/24/22 02:04	
Nickel	ug/L	1.0 U	5.0	1.0	11/24/22 02:04	
Silver	ug/L	1.0 U	5.0	1.0	11/24/22 02:04	
Sodium	mg/L	0.54 U	2.0	0.54	11/24/22 02:04	
Vanadium	ug/L	1.0 U	10.0	1.0	11/24/22 02:04	
Zinc	ug/L	11.0 U	20.0	11.0	11/24/22 02:04	

LABORATORY CONTROL SAMPLE: 4803759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	265	106	80-120	
Beryllium	ug/L	25	23.1	93	80-120	
Cadmium	ug/L	25	23.3	93	80-120	
Chromium	ug/L	250	244	98	80-120	
Cobalt	ug/L	250	236	94	80-120	
Copper	ug/L	250	235	94	80-120	
Iron	ug/L	2500	2540	102	80-120	
Nickel	ug/L	250	237	95	80-120	
Silver	ug/L	25	23.7	95	80-120	
Sodium	mg/L	12.5	12.8	102	80-120	
Vanadium	ug/L	250	239	96	80-120	
Zinc	ug/L	1250	1150	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4803760 4803761

Parameter	Units	35759983005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	38.2	250	250	303	302	106	105	75-125	0	20	
Beryllium	ug/L	0.17 U	25	25	24.5	25.0	98	100	75-125	2	20	
Cadmium	ug/L	0.33 U	25	25	23.9	24.5	95	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4803760 4803761												
Parameter	Units	35759983005		MS	MSD	MS		MS	MSD	% Rec Limits	RPD	Max
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			RPD
Chromium	ug/L	1.7 U		250	250	247	257	99	102	75-125	4	20
Cobalt	ug/L	0.96 U		250	250	246	252	98	101	75-125	3	20
Copper	ug/L	2.6 U		250	250	250	257	100	102	75-125	3	20
Iron	ug/L	93.7		2500	2500	2640	2650	102	102	75-125	1	20
Nickel	ug/L	1.0 I		250	250	247	253	98	101	75-125	2	20
Silver	ug/L	1.0 U		25	25	24.3	25.0	97	100	75-125	2	20
Sodium	mg/L	78.7		12.5	12.5	91.9	92.1	106	107	75-125	0	20
Vanadium	ug/L	3.2 I		250	250	249	256	98	101	75-125	3	20
Zinc	ug/L	11.0 U		1250	1250	1200	1220	96	98	75-125	2	20

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872649	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

METHOD BLANK:	4803754	Matrix:	Water
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/19/22 12:19	
Arsenic	ug/L	0.50 U	1.0	0.50	11/19/22 12:19	
Lead	ug/L	0.22 U	1.0	0.22	11/19/22 12:19	
Selenium	ug/L	0.20 U	2.0	0.20	11/19/22 12:19	
Thallium	ug/L	0.11 U	1.0	0.11	11/19/22 12:19	

LABORATORY CONTROL SAMPLE: 4803755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.4	101	80-120	
Arsenic	ug/L	50	51.4	103	80-120	
Lead	ug/L	50	51.8	104	80-120	
Selenium	ug/L	50	51.7	103	80-120	
Thallium	ug/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4803756 4803757

Parameter	Units	35759946001		MS		MSD		4803757		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Antimony	ug/L	0.52 I	50	50	50	52.3	52.3	104	104	75-125	0	20	
Arsenic	ug/L	4.7	50	50	50	55.1	54.9	101	100	75-125	0	20	
Lead	ug/L	0.22 U	50	50	50	50.5	51.2	101	102	75-125	1	20	
Selenium	ug/L	0.69 I	50	50	50	12.4	10.8	23	20	75-125	14	20 J(M1)	
Thallium	ug/L	0.11 U	50	50	50	50.6	50.7	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch: 873699

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004, 35759946008

METHOD BLANK: 4811692

Matrix: Water

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004, 35759946008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/22/22 09:47	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 09:47	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/22/22 09:47	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 09:47	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/22/22 09:47	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/22/22 09:47	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/22/22 09:47	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/22/22 09:47	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/22/22 09:47	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/22/22 09:47	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/22/22 09:47	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/22/22 09:47	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/22/22 09:47	J(v1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/22/22 09:47	J(v1)
Acetone	ug/L	8.7 U	25.0	8.7	11/22/22 09:47	J(v2)
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/22/22 09:47	
Benzene	ug/L	0.30 U	1.0	0.30	11/22/22 09:47	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/22/22 09:47	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/22/22 09:47	
Bromoform	ug/L	0.48 U	3.0	0.48	11/22/22 09:47	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/22/22 09:47	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/22/22 09:47	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/22/22 09:47	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/22/22 09:47	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/22/22 09:47	
Chloroform	ug/L	0.56 U	1.0	0.56	11/22/22 09:47	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/22/22 09:47	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/22/22 09:47	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/22/22 09:47	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/22/22 09:47	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/22/22 09:47	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/22/22 09:47	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/22/22 09:47	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/22/22 09:47	
Styrene	ug/L	0.26 U	1.0	0.26	11/22/22 09:47	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/22/22 09:47	
Toluene	ug/L	0.33 U	1.0	0.33	11/22/22 09:47	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/22/22 09:47	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/22/22 09:47	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/22/22 09:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

METHOD BLANK: 4811692

Matrix: Water

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004, 35759946008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/22/22 09:47	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/22/22 09:47	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/22/22 09:47	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/22/22 09:47	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/22/22 09:47	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130		11/22/22 09:47	
4-Bromofluorobenzene (S)	%	87	70-130		11/22/22 09:47	
Toluene-d8 (S)	%	96	70-130		11/22/22 09:47	

LABORATORY CONTROL SAMPLE: 4811693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.3	92	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.1	111	68-125	
1,1,2-Trichloroethane	ug/L	20	17.8	89	70-130	
1,1-Dichloroethane	ug/L	20	21.9	110	70-130	
1,1-Dichloroethene	ug/L	20	20.4	102	66-133	
1,2,3-Trichloropropane	ug/L	20	20.7	104	62-127	
1,2-Dichlorobenzene	ug/L	20	18.3	92	70-130	
1,2-Dichloroethane	ug/L	20	20.5	102	70-130	
1,2-Dichloropropane	ug/L	20	19.9	100	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	100	95.0	95	47-143	
2-Hexanone	ug/L	100	121	121	48-145 J(v1)	
4-Methyl-2-pentanone (MIBK)	ug/L	100	132	132	57-132 J(v1)	
Acetone	ug/L	100	76.6	77	46-148 J(v3)	
Acrylonitrile	ug/L	100	97.7	98	60-143	
Benzene	ug/L	20	20.4	102	70-130	
Bromochloromethane	ug/L	20	18.0	90	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	16.4	82	49-126	
Bromomethane	ug/L	20	6.6 I	33	10-165 J(v3)	
Carbon disulfide	ug/L	20	22.4	112	60-141	
Carbon tetrachloride	ug/L	20	19.7	99	63-126	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	23.9	120	71-142	
Chloroform	ug/L	20	19.2	96	70-130	
Chloromethane	ug/L	20	19.4	97	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	70-130	
Dibromochloromethane	ug/L	20	17.4	87	62-118	
Dibromomethane	ug/L	20	16.5	83	70-130	
Ethylbenzene	ug/L	20	20.1	100	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

LABORATORY CONTROL SAMPLE: 4811693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	3.6 U	12	10-164	J(v3)
Methylene Chloride	ug/L	20	21.2	106	65-136	
Styrene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	18.0	90	64-134	
Toluene	ug/L	20	19.6	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	22.9	115	42-129	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	18.9	95	65-135	
Vinyl acetate	ug/L	20	21.1	106	60-144	
Vinyl chloride	ug/L	20	21.2	106	68-131	
Xylene (Total)	ug/L	60	58.9	98	70-130	
1,2-Dichlorobenzene-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			87	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4809036

Parameter	Units	35761448002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	14.7	74	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	15.4	77	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	16.8	84	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	14.9	74	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.3	92	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	17.7	88	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	18.2	91	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	15.1	76	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	16.1	81	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	17.0	85	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	15.1	75	70-130	
2-Butanone (MEK)	ug/L	6.7 U	100	75.7	76	47-143	
2-Hexanone	ug/L	3.2 U	100	90.2	90	48-145	J(v1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	96.4	96	57-132	J(v1)
Acetone	ug/L	8.7 U	100	53.6	54	46-148	J(v3)
Acrylonitrile	ug/L	3.7 U	100	81.5	82	60-143	
Benzene	ug/L	0.30 U	20	17.5	88	70-130	
Bromochloromethane	ug/L	0.37 U	20	16.5	82	70-130	
Bromodichloromethane	ug/L	1.0	20	16.6	78	70-130	
Bromoform	ug/L	0.48 U	20	13.0	65	49-126	
Bromomethane	ug/L	3.9 U	20	7.4 I	37	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	15.3	77	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	15.3	77	63-126	
Chlorobenzene	ug/L	0.35 U	20	15.6	78	70-130	
Chloroethane	ug/L	3.7 U	20	18.2	91	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

MATRIX SPIKE SAMPLE: 4809036		35761448002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	2.9	20	17.3	72	70-130	
Chloromethane	ug/L	0.43 U	20	18.6	93	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	15.9	79	70-130	
Dibromochloromethane	ug/L	0.45 U	20	15.4	77	62-118	
Dibromomethane	ug/L	0.68 U	20	13.9	69	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	16.2	81	70-130	
Iodomethane	ug/L	3.6 U	20	3.6 U	13	10-164	J(v3)
Methylene Chloride	ug/L	1.7 U	20	17.9	90	65-136	
Styrene	ug/L	0.26 U	20	15.3	76	70-130	
Tetrachloroethene	ug/L	0.38 U	20	13.7	69	64-134	
Toluene	ug/L	0.33 U	20	16.7	83	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	16.4	82	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	15.8	79	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	15.7	78	42-129	
Trichloroethene	ug/L	0.36 U	20	14.7	73	70-130	
Trichlorofluoromethane	ug/L	0.72 U	20	15.8	79	65-135	
Vinyl acetate	ug/L	1.8 U	20	16.0	80	60-144	
Vinyl chloride	ug/L	0.39 U	20	19.1	96	68-131	
Xylene (Total)	ug/L	2.1 U	60	47.2	79	70-130	
1,2-Dichlorobenzene-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				87	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 4809035

Parameter	Units	35761448001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	J(v1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	J(v1)
Acetone	ug/L	8.7 U	8.7 U		40	J(v2)
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

SAMPLE DUPLICATE: 4809035

Parameter	Units	35761448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	97	99		40	
4-Bromofluorobenzene (S)	%	86	90		40	
Toluene-d8 (S)	%	95	96		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	873917	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946005, 35759946006, 35759946007		

METHOD BLANK: 4810457 Matrix: Water

Associated Lab Samples: 35759946005, 35759946006, 35759946007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/22/22 20:44	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 20:44	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/22/22 20:44	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 20:44	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/22/22 20:44	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/22/22 20:44	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/22/22 20:44	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/22/22 20:44	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/22/22 20:44	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/22/22 20:44	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/22/22 20:44	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/22/22 20:44	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/22/22 20:44	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/22/22 20:44	J(v1)
Acetone	ug/L	8.7 U	25.0	8.7	11/22/22 20:44	J(v2)
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/22/22 20:44	
Benzene	ug/L	0.30 U	1.0	0.30	11/22/22 20:44	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/22/22 20:44	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/22/22 20:44	
Bromoform	ug/L	0.48 U	3.0	0.48	11/22/22 20:44	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/22/22 20:44	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/22/22 20:44	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/22/22 20:44	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/22/22 20:44	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/22/22 20:44	
Chloroform	ug/L	0.56 U	1.0	0.56	11/22/22 20:44	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/22/22 20:44	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/22/22 20:44	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/22/22 20:44	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/22/22 20:44	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/22/22 20:44	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/22/22 20:44	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/22/22 20:44	
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/22/22 20:44	
Styrene	ug/L	0.26 U	1.0	0.26	11/22/22 20:44	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/22/22 20:44	
Toluene	ug/L	0.33 U	1.0	0.33	11/22/22 20:44	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/22/22 20:44	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/22/22 20:44	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/22/22 20:44	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

METHOD BLANK: 4810457

Matrix: Water

Associated Lab Samples: 35759946005, 35759946006, 35759946007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/22/22 20:44	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/22/22 20:44	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/22/22 20:44	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/22/22 20:44	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/22/22 20:44	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130		11/22/22 20:44	
4-Bromofluorobenzene (S)	%	88	70-130		11/22/22 20:44	
Toluene-d8 (S)	%	96	70-130		11/22/22 20:44	

LABORATORY CONTROL SAMPLE: 4810458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	23.3	116	68-125	
1,1,2-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	20	19.1	95	66-133	
1,2,3-Trichloropropane	ug/L	20	21.5	108	62-127	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	18.9	95	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	21.3	107	70-130	
2-Butanone (MEK)	ug/L	100	81.1	81	47-143	
2-Hexanone	ug/L	100	112	112	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	125	125	57-132 J(v1)	
Acetone	ug/L	100	55.6	56	46-148 J(v3)	
Acrylonitrile	ug/L	100	94.8	95	60-143	
Benzene	ug/L	20	20.2	101	70-130	
Bromochloromethane	ug/L	20	18.2	91	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	17.6	88	49-126	
Bromomethane	ug/L	20	4.8 I	24	10-165 J(v3)	
Carbon disulfide	ug/L	20	20.1	101	60-141	
Carbon tetrachloride	ug/L	20	17.1	85	63-126	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	19.2	96	71-142	
Chloroform	ug/L	20	17.3	86	70-130	
Chloromethane	ug/L	20	19.7	98	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.3	101	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	19.0	95	62-118	
Dibromomethane	ug/L	20	17.3	87	70-130	
Ethylbenzene	ug/L	20	21.3	107	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

LABORATORY CONTROL SAMPLE: 4810458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	3.6 U	11	10-164	
Methylene Chloride	ug/L	20	20.6	103	65-136	
Styrene	ug/L	20	20.9	105	70-130	
Tetrachloroethene	ug/L	20	18.5	93	64-134	
Toluene	ug/L	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	20.8	104	42-129	
Trichloroethene	ug/L	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	20	17.7	88	65-135	
Vinyl acetate	ug/L	20	21.1	106	60-144	
Vinyl chloride	ug/L	20	20.6	103	68-131	
Xylene (Total)	ug/L	60	61.2	102	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 4810460

Parameter	Units	35759984006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	14.7	73	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	16.4	82	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	15.5	77	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	15.5	77	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	15.2	76	70-130	
1,1-Dichloroethene	ug/L	2750	20	2470	-1410	66-133 L	
1,2,3-Trichloropropane	ug/L	0.53 U	20	14.5	73	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	14.2	71	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	11.2	56	70-130 J(M1)	
1,2-Dichloropropane	ug/L	0.23 U	20	17.4	87	70-130	
1,4-Dichlorobenzene	ug/L	0.38 I	20	15.2	74	70-130	
2-Butanone (MEK)	ug/L	6.7 U	100	65.6	66	47-143	
2-Hexanone	ug/L	3.2 U	100	85.5	86	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	91.6	92	57-132 J(v1)	
Acetone	ug/L	8.7 U	100	45.5	46	46-148 J(v3)	
Acrylonitrile	ug/L	3.7 U	100	76.8	77	60-143	
Benzene	ug/L	5.5	20	22.9	87	70-130	
Bromochloromethane	ug/L	0.37 U	20	12.7	64	70-130 J(M1)	
Bromodichloromethane	ug/L	0.19 U	20	15.8	79	70-130	
Bromoform	ug/L	0.48 U	20	13.1	65	49-126	
Bromomethane	ug/L	3.9 U	20	5.1 I	25	10-165 J(v3)	
Carbon disulfide	ug/L	1.8 U	20	16.9	84	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	16.6	83	63-126	
Chlorobenzene	ug/L	8.7	20	24.1	77	70-130	
Chloroethane	ug/L	3.7 U	20	18.8	94	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

MATRIX SPIKE SAMPLE: 4810460		35759984006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	16.1	80	70-130	
Chloromethane	ug/L	0.43 U	20	32.1	160	40-140	J(M1)
cis-1,2-Dichloroethene	ug/L	13200	20	5800	-37100	70-130	L
cis-1,3-Dichloropropene	ug/L	0.17 U	20	15.9	79	70-130	
Dibromochloromethane	ug/L	0.45 U	20	14.6	73	62-118	
Dibromomethane	ug/L	0.68 U	20	13.6	68	70-130	J(M1)
Ethylbenzene	ug/L	2.9	20	19.4	83	70-130	
Iodomethane	ug/L	3.6 U	20	3.6 U	6	10-164	J(M1)
Methylene Chloride	ug/L	1.7 U	20	17.9	89	65-136	
Styrene	ug/L	0.26 U	20	15.8	79	70-130	
Tetrachloroethene	ug/L	0.38 U	20	14.9	75	64-134	
Toluene	ug/L	4.8	20	21.2	82	70-130	
trans-1,2-Dichloroethene	ug/L	359	20	470	555	68-127	L
trans-1,3-Dichloropropene	ug/L	0.37 U	20	15.4	77	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	16.0	80	42-129	
Trichloroethene	ug/L	13400	20	5400	-40100	70-130	L
Trichlorofluoromethane	ug/L	0.72 U	20	13.4	67	65-135	
Vinyl acetate	ug/L	1.8 U	20	14.7	74	60-144	
Vinyl chloride	ug/L	2310	20	2040	-1390	68-131	L
Xylene (Total)	ug/L	8.1	60	56.5	81	70-130	
1,2-Dichlorobenzene-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				92	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 4810459

Parameter	Units	35759984005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	2280	2570	12	40	L
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	J(v1)
Acetone	ug/L	8.7 U	8.7 U		40	J(v2)
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	4.5	4.5	2	40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

SAMPLE DUPLICATE: 4810459

Parameter	Units	35759984005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	3.9	3.8	3	40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	16500	6910	82	40	J(R1),L
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.90 I	0.86 I		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	3.2	3.1	4	40	
trans-1,2-Dichloroethene	ug/L	244	591	83	40	J(R1),L
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	1640	1500	9	40	L
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	2120	2300	8	40	L
Xylene (Total)	ug/L	3.0 I	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	101	99		40	
4-Bromofluorobenzene (S)	%	91	91		40	
Toluene-d8 (S)	%	93	95		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872543	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004

METHOD BLANK: 4802828 Matrix: Water

Associated Lab Samples: 35759946001, 35759946002, 35759946003, 35759946004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/19/22 04:34	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/19/22 04:34	

LABORATORY CONTROL SAMPLE: 4802829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	99	60-140	

MATRIX SPIKE SAMPLE: 4802830

Parameter	Units	35759603005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.25	0.19	76	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.25	0.20	79	60-140	

SAMPLE DUPLICATE: 4802831

Parameter	Units	35759603006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.0064 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.0075 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872913	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946005, 35759946006, 35759946007, 35759946008, 35759946009

METHOD BLANK: 4805063

Matrix: Water

Associated Lab Samples: 35759946005, 35759946006, 35759946007, 35759946008, 35759946009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/19/22 11:52	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/19/22 11:52	

LABORATORY CONTROL SAMPLE: 4805064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.30	120	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	118	60-140	

MATRIX SPIKE SAMPLE: 4805065

Parameter	Units	35760608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0061 U	0.24	0.23	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.24	0.21	86	60-140	

SAMPLE DUPLICATE: 4805066

Parameter	Units	35759946005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0066 U	0.0065 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0077 U	0.0076 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872959	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

METHOD BLANK:	4805310	Matrix:	Water
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/18/22 17:54	

LABORATORY CONTROL SAMPLE:	4805311					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	90-110	

SAMPLE DUPLICATE:	4805312					
Parameter	Units	35759855001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	447	439	2	10	

SAMPLE DUPLICATE:	4805313					
Parameter	Units	35759946007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	461	458	1	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872977	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946001, 35759946002, 35759946004, 35759946005, 35759946008

METHOD BLANK: 4805500 Matrix: Water

Associated Lab Samples: 35759946001, 35759946002, 35759946004, 35759946005, 35759946008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/18/22 18:35	

LABORATORY CONTROL SAMPLE: 4805501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812948 4812949

Parameter	Units	35759603002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.7	50	50	56.3	56.8	99	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812950 4812951

Parameter	Units	35759633002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	41.1	50	50	94.8	95.5	107	109	90-110	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch: 874863

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory:

Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35759946003, 35759946006, 35759946007

METHOD BLANK: 4814146

Matrix: Water

Associated Lab Samples: 35759946003, 35759946006, 35759946007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/28/22 16:21	

LABORATORY CONTROL SAMPLE: 4814147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815240 4815241

Parameter	Units	35761580003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	41.7	50	50	94.7	94.8	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815242 4815243

Parameter	Units	35762199001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.2	50	50	56.3	56.5	96	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	873646	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

METHOD BLANK:	4808805	Matrix:	Water
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/22/22 12:42	

LABORATORY CONTROL SAMPLE: 4808806						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:													4808808	4808807			
Parameter	Units	35759815003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual					
Nitrogen, Ammonia	mg/L	0.035 U	1	1	1.1	1.1	104	104	90-110	0	20						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
4808809					4808810							
		35759946001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Nitrogen, Ammonia	mg/L	0.62	1	1	1.7	1.7	103	103	90-110	0	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

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

QC Batch:	872187	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

METHOD BLANK:	4801029	Matrix:	Water
Associated Lab Samples:	35759946001, 35759946002, 35759946003, 35759946004, 35759946005, 35759946006, 35759946007, 35759946008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/16/22 19:53	

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

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QUALIFIERS

Project: Lena Road Landfill (Existing)
Pace Project No.: 35759946

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
L	Off-scale high. Actual value is known to be greater than value given.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35759946001	GW-8				
35759946002	GW-9				
35759946003	GW-10				
35759946004	GW-11				
35759946005	GW-12				
35759946006	GW-13				
35759946007	GW-14				
35759946001	GW-8	EPA 8011	872543	EPA 8011	872852
35759946002	GW-9	EPA 8011	872543	EPA 8011	872852
35759946003	GW-10	EPA 8011	872543	EPA 8011	872852
35759946004	GW-11	EPA 8011	872543	EPA 8011	872852
35759946005	GW-12	EPA 8011	872913	EPA 8011	872991
35759946006	GW-13	EPA 8011	872913	EPA 8011	872991
35759946007	GW-14	EPA 8011	872913	EPA 8011	872991
35759946008	Equipment Blank	EPA 8011	872913	EPA 8011	872991
35759946009	Trip Blank 8011	EPA 8011	872913	EPA 8011	872991
35759946001	GW-8	EPA 3010	872650	EPA 6010	872678
35759946002	GW-9	EPA 3010	872650	EPA 6010	872678
35759946003	GW-10	EPA 3010	872650	EPA 6010	872678
35759946004	GW-11	EPA 3010	872650	EPA 6010	872678
35759946005	GW-12	EPA 3010	872650	EPA 6010	872678
35759946006	GW-13	EPA 3010	872650	EPA 6010	872678
35759946007	GW-14	EPA 3010	872650	EPA 6010	872678
35759946008	Equipment Blank	EPA 3010	872650	EPA 6010	872678
35759946001	GW-8	EPA 3010	872649	EPA 6020	872677
35759946002	GW-9	EPA 3010	872649	EPA 6020	872677
35759946003	GW-10	EPA 3010	872649	EPA 6020	872677
35759946004	GW-11	EPA 3010	872649	EPA 6020	872677
35759946005	GW-12	EPA 3010	872649	EPA 6020	872677
35759946006	GW-13	EPA 3010	872649	EPA 6020	872677
35759946007	GW-14	EPA 3010	872649	EPA 6020	872677
35759946008	Equipment Blank	EPA 3010	872649	EPA 6020	872677
35759946001	GW-8	EPA 7470	873985	EPA 7470	874102
35759946002	GW-9	EPA 7470	873985	EPA 7470	874102
35759946003	GW-10	EPA 7470	874661	EPA 7470	874730
35759946004	GW-11	EPA 7470	874661	EPA 7470	874730
35759946005	GW-12	EPA 7470	874661	EPA 7470	874730
35759946006	GW-13	EPA 7470	874661	EPA 7470	874730
35759946007	GW-14	EPA 7470	874661	EPA 7470	874730
35759946008	Equipment Blank	EPA 7470	874661	EPA 7470	874730
35759946001	GW-8	EPA 8260	873699		
35759946002	GW-9	EPA 8260	873699		
35759946003	GW-10	EPA 8260	873699		
35759946004	GW-11	EPA 8260	873699		
35759946005	GW-12	EPA 8260	873917		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35759946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35759946006	GW-13	EPA 8260	873917		
35759946007	GW-14	EPA 8260	873917		
35759946008	Equipment Blank	EPA 8260	873699		
35759946001	GW-8	SM 2540C	872959		
35759946002	GW-9	SM 2540C	872959		
35759946003	GW-10	SM 2540C	872959		
35759946004	GW-11	SM 2540C	872959		
35759946005	GW-12	SM 2540C	872959		
35759946006	GW-13	SM 2540C	872959		
35759946007	GW-14	SM 2540C	872959		
35759946008	Equipment Blank	SM 2540C	872959		
35759946001	GW-8	EPA 300.0	872977		
35759946002	GW-9	EPA 300.0	872977		
35759946003	GW-10	EPA 300.0	874863		
35759946004	GW-11	EPA 300.0	872977		
35759946005	GW-12	EPA 300.0	872977		
35759946006	GW-13	EPA 300.0	874863		
35759946007	GW-14	EPA 300.0	874863		
35759946008	Equipment Blank	EPA 300.0	872977		
35759946001	GW-8	EPA 350.1	873646		
35759946002	GW-9	EPA 350.1	873646		
35759946003	GW-10	EPA 350.1	873646		
35759946004	GW-11	EPA 350.1	873646		
35759946005	GW-12	EPA 350.1	873646		
35759946006	GW-13	EPA 350.1	873646		
35759946007	GW-14	EPA 350.1	873646		
35759946008	Equipment Blank	EPA 350.1	873646		
35759946001	GW-8	EPA 353.2	872187		
35759946002	GW-9	EPA 353.2	872187		
35759946003	GW-10	EPA 353.2	872187		
35759946004	GW-11	EPA 353.2	872187		
35759946005	GW-12	EPA 353.2	872187		
35759946006	GW-13	EPA 353.2	872187		
35759946007	GW-14	EPA 353.2	872187		
35759946008	Equipment Blank	EPA 353.2	872187		

REPORT OF LABORATORY ANALYSIS

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WO#: 35759946



35759946

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out. This document is submitted to the Laboratory for analysis. Submitting a sample with this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/chain-of-custody>

Section A: Client Information
 Section B: Project Information
 Section C: Invoice Information

Required Client Information:
 Company Name: Manatee County Landfill
 Address: 3333 Lena Road
 Bradenton, FL 34211
 Email: bob.bennett@mymanatee.org
 Phone: (941) 748-5543
 Requested Due Date: 11/15/22

Required Project Information:
 Report To: Bob Bennett
 Copy To: [Blank]
 Project Name: Leha Rd Landfill (Existing Wells)
 Project #/Job Order #: 5100

Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Order #: [Blank]
 Pace Project Manager: cameron.meynarde@pacelabs.com
 Pace Profile #: 18100 Line 1

Regulatory Agency: [Blank]
State / Location: FL

ITEM #	MATRIX CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	MATRIX CODE DW WT WW P SL OL WP AR OT TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test Y/N	Requested Analysis Filtered (Y/N)									
				START	END			Unpreserved	H2SO4	HCl	NaOH	Na2S2O3	Methanol	Other										
1	GW-3	WT	WT												X	X	X	X	X	X	X	X	X	X
2	GW-4	WT	WT												X	X	X	X	X	X	X	X	X	X
3	GW-5	WT	WT												X	X	X	X	X	X	X	X	X	X
4	GW-6	WT	WT												X	X	X	X	X	X	X	X	X	X
5	GW-7	WT	WT												X	X	X	X	X	X	X	X	X	X
6	GW-8	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	GW-9	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	GW-10	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	GW-11	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	GW-12	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	GW-13	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	GW-14	WT	WT	11/5/22 11:50 AM	11/5/22 11:50 AM		8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ADDITIONAL COMMENTS:
 PAC ID: 44795, LENA RD COUNTY LF
 Field Data: Static Water Level Before Purge, Observation

RELINQUISHED BY / AFFILIATION:
 H. Bennett Pace DS
 DS pace 11/5/22 11:50 AM

ACCEPTED BY / AFFILIATION:
 H. Bennett Pace DS
 DS pace 11/5/22 11:50 AM

DATE: 11/5/22 11:50 AM
TIME: 11:50 AM
DATE: 11/5/22 11:50 AM
TIME: 11:50 AM

TEMP in °C: 34
Received on: 11/5/22
ice (Y/N): Y
Sealed (Y/N): Y
Cooler (Y/N): Y
Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: H. Bennett
 SIGNATURE of SAMPLER: [Signature]

DATE SIGNED: 11-15-22

2052

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A: Chain of Custody

Required Client Information: Company: Manatee County Landfill Address: 3333 Lena Road Bradenton, FL 34211 Email: bob.bennett@mymanatee.org Phone: (941) 748-5543 Requested Due Date:		Invoice Information: Report To: Bob Bennett Copy To: [Blank] Address: [Blank] Purchase Order #: [Blank] Project Name: Lena Rd Landfill (Existing Wells) Project #: 8100 Line 1	
Regulatory Agency: State / Location: FL		Regulatory Agency: State / Location: FL	

Section B: Sample Information

Required Project Information: Report To: Bob Bennett Copy To: [Blank] Address: [Blank] Purchase Order #: [Blank] Project Name: Lena Rd Landfill (Existing Wells) Project #: 8100 Line 1		Requested Analysis Filtered (Y/N) Y/N	

ITEM #	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			START	END		H2SO4	HNO3		HCl	NaOH	Na2S2O3	Methanol	Other	NH3	CL, NO3, TDS	Metals - App I+Fe,Na,Hg			8260 App I	EDB and DBCP EPA 8011	6020 - Arsenic	Trip Blank 8011	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

ADDITIONAL COMMENTS FAC ID: 44795; LENA RD COUNTY LF Field Data: Static Water Level Before Purge. observation		RELINQUISHED BY / AFFILIATION DATE: 11/15/22 TIME: 1650 SIGNATURE: [Signature]		ACCEPTED BY / AFFILIATION DATE: 11/15/22 TIME: 1900 SIGNATURE: [Signature]		SAMPLE CONDITIONS DATE: 11/15/22 TIME: 1650 SIGNATURE: [Signature]	
SAMPLER NAME AND SIGNATURE NAME: [Blank] SIGNATURE: [Blank]		SAMPLER NAME AND SIGNATURE NAME: [Blank] SIGNATURE: [Blank]		SAMPLER NAME AND SIGNATURE NAME: [Blank] SIGNATURE: [Blank]		SAMPLER NAME AND SIGNATURE NAME: [Blank] SIGNATURE: [Blank]	



WO#: 35759946

PM: CEM Due Date: 12/01/22
CLIENT: MANCOU-SW

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents:
Label: KAS
Deliver:
pH:

Thermometer Used: T202

Date: 11-15-22 Time: 1650 Initials: DS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 6.7 (Visual) +0.2 (Correction Factor) 6.9 (Actual)
Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

☒ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (if Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☒ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: Vials, Microbiology, O&G, PFAS		
Headspace in VOA Vials? (>6mm):	☒ Yes ☐ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

Sample #4 1/3 8260
Sample #7 1/3 8260

Pace

Sample Condition Upon Receipt Form (SCUR)
WO#: 35759946
Project #
Project Manager: PM: CEM Due Date: 12/01/22
Client: CLIENT: MANCOU-SW

Date and Initials of person:
Examining contents:
Label: KAS
Deliver: KAS
pH:
Initials: CPI

Thermometer Used: T-399 Date: 11/15/22 Time: 2201

State of Origin:

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 2.4 (Visual) 0.0 (Correction Factor) 2.4 (Actual)
Cooler #2 Temp. $^{\circ}\text{C}$ 3.4 (Visual) (Correction Factor) 3.4 (Actual)
Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☒ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: Vials, Microbiology, O&G, PFAS		
Headspace in VOA Vials? (>6mm):	☒ Yes ☐ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

Sample # 4 1/3 8260
Sample # 7 1/3 8260

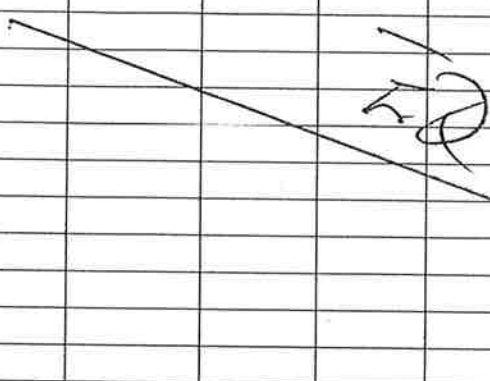
	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA LANDFILL	SITE LOCATION: 3333 LENA RD BRADENTON
WELL NO: EQ	SAMPLE ID: EQ BLANK DATE: 11-15-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)												
																							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Disques		SAMPLER(S) SIGNATURE(S): H. Disques		SAMPLING INITIATED AT: 0830	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☒ N (replaced) ☐		DUPLICATE: Y ☒ N ☐			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID/CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
EQ	1	PE	1L	COOL	0		Cl, NH3, TDS	APP	< 300
	1	PE	250mL	HNO3			ME-HCS		
	1	PE	250mL	H2SO4			NH3		
	2	CG	40 mL	COOL			EDS & DOC		
	3	CG	40 mL	HCL			8260		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. KERR LANDFILL		SITE LOCATION: 3333 KERR RD. BARTON, MO	
WELL NO: GW-11	SAMPLE ID: GW-11	DATE: 11-15-22	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH (feet to 6.11 feet	STATIC DEPTH TO WATER (feet) 7.23	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 21.11 feet - 7.23 feet X 8.16 gallons/foot = 2.2208 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14'	PURGING INITIATED AT: 115	PURGING ENDED AT: 1150	TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	2.30	2.30	2.10	8.00	6.62	25.6	645	8.68	1.75	CLEAR	NO.8
1145	3.50	5.80	0.12	8.00	6.63	25.6	645	8.67	1.35	↓	↓
1150	0.50	3.30	0.10	8.00	6.64	25.6	645	8.68	1.01	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY: (PRINT) / AFFILIATION: HOWARD BOGUES				SAMPLER(S) / SIGNATURE(S): H. Bogues			SAMPLING INITIATED AT: 11/5/		SAMPLING ENDED AT: 1/20/		
PUMP OR TUBING DEPTH IN WELL (feet): 14'				TUBING MATERIAL CODE: H108/s		FIELD-FILTERED: Y ☒ N ☒ Filtration Equipment Type:			FILTER SIZE: ____ µm		
FIELD DECONTAMINATION: PUMP Y ☒ N ☒				TUBING Y ☒ N (replaced) ☒			DUPLICATE: Y ☒ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
W-11	1	SE	250 mL	HCL	0	6.6	C/NB/TS		APC	< 300	
↓	1	SE	250 mL	HCL	↓	< 2	METALS		↓	↓	
↓	2	CG	250 mL	HCL	↓	< 2	N/43		↓	↓	
↓	5	CG	40 mL	HCL	↓	6.6	ED-D30P		↓	↓	
↓	5	CG	40 mL	HCL	↓	< 2	8260		↓	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LEAF LANDFILL	SITE LOCATION: 3333 LEAF RD. GRADY, MO
WELL NO: GW-10	SAMPLE ID: GW-10
	DATE: 11-15-22

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	4	WELL SCREEN INTERVAL DEPTH (feet to)	8.65	STATIC DEPTH TO WATER (feet)	9.15	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)									
$= (19.65 \text{ feet} - 9.15 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.68 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)									
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	18'	PURGING INITIATED AT:	1026	PURGING ENDED AT:	1053	TOTAL VOLUME PURGED (gallons):	2.70

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) <i>11/24/2004</i>				FILTRATION: <i>18</i>			SAMPLE(S) SIGNATURE(S): <i>11/24/2004</i>			SAMPLING INITIATED AT: <i>1254</i>		SAMPLING ENDED AT: <i>1104</i>		
PUMP OR TUBING DEPTH IN WELL (feet): <i>18</i>				TUBING MATERIAL CODE: <i>HDPE</i>			FIELD-FILTERED: Y <i>N</i>			Filtration Equipment Type: <i>N</i>			FILTER SIZE: <i>0.45</i> µm	
FIELD DECONTAMINATION: PUMP Y <i>N</i>				TUBING Y <i>N</i> (replaced)			DUPLICATE: Y <i>N</i>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH								
<i>0-10</i>	<i>1</i>	<i>PE</i>	<i>1L</i>	<i>COOL</i>	<i>0</i>	<i>7.1</i>	<i>d nbs</i>		<i>APP</i>		<i><300</i>			
<i>↓</i>	<i>1</i>	<i>PE</i>	<i>250 mL</i>	<i>HNO3</i>	<i>↓</i>	<i><2</i>	<i>METALS</i>		<i>↓</i>		<i>↓</i>			
<i>↓</i>	<i>1</i>	<i>PE</i>	<i>250 mL</i>	<i>H2SO4</i>	<i>↓</i>	<i><2</i>	<i>NH3</i>		<i>↓</i>		<i>↓</i>			
<i>↓</i>	<i>2</i>	<i>CS</i>	<i>40 mL</i>	<i>COOL</i>	<i>↓</i>	<i>7.1</i>	<i>EDS & DCP</i>		<i>↓</i>		<i>↓</i>			
<i>↓</i>	<i>3</i>	<i>CS</i>	<i>40 mL</i>	<i>HCL</i>	<i>↓</i>	<i><2</i>	<i>82PO</i>		<i>↓</i>		<i>↓</i>			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater) Page 78 of 81

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: MC LENA LANDFILL		SITE LOCATION: 3333 LENA RD, BRADENTON	
WELL NO: GW-14	SAMPLE ID: GW-14	DATE: 11-15-22	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH: 4.65 feet to 19.45 feet	STATIC DEPTH TO WATER (feet): 4.65	PURGE PUMP TYPE OR BAILER: RP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (19.45 \text{ feet} - 4.65 \text{ feet}) \times 0.16 \text{ gallons/foot} = 2.40 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	PURGING INITIATED AT: 1357	PURGING ENDED AT: 1433	TOTAL VOLUME PURGED (gallons): 3.60

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: HOWARD BOGUES H. Bogues			SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 1434	SAMPLING ENDED AT: 1444
PUMP OR TUBING DEPTH IN WELL (feet): 10			TUBING MATERIAL CODE: HDPE/S		FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y ☒ N ☐			TUBING Y ☒ N (replaced) ☐		DUPLICATE: Y ☒ N ☐	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0-14	1	SE	1L	CODL	0	7.1	0.103-105	APP	< 300
	1	SE	250 mL	#10B3		< 2	METALS		
	1	SE	250 mL	#2 S04		< 2	NH3		
	2	CS	40 mL	ADL		7.1	EDB & S008		
	3	CS	40 mL	FLC		< 2	S240		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. KONA LANDFILL		SITE LOCATION: 3333 KONA, BRADENTON	
WELL NO: GW-12	SAMPLE ID: GW-13	DATE: 11-15-22	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: HOWARD ROGERS			SAMPLERS' SIGNATURE(S): H. ROGERS			SAMPLING INITIATED AT: 1325		SAMPLING ENDED AT: 1335		
PUMP OR TUBING DEPTH IN WELL (feet): 14'			TUBING MATERIAL CODE: HDPE/S		FIELD-FILTERED: Y N		FILTER SIZE: ____ µm			
FIELD DECONTAMINATION: PUMP Y N			TUBING Y N (replaced)			DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
0-13	1	PE	1L	CSL	0	6.9	C/N/3 TDS		APR	< 300
↓	1	PE	250mL	H ₂ SO ₄	↓	< 2	METALS		↓	↓
↓	1	PE	250mL	H ₂ SO ₄	↓	< 2	NH ₃		↓	↓
↓	2	CS	45 mL	CSL	↓	6.9	EDS & DBO ₅		↓	↓
↓	3	CS	40 mL	HCL	↓	< 2	3265		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table ES-2286-2) optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

SAMPLING DATA									
SAMPLED BY (PRINT) <i>HOWARD BAKER</i>			SAMPLER(S) SIGNATURE(S) <i>H. BAKER</i>			SAMPLING INITIATED AT <i>1244</i>		SAMPLING ENDED AT <i>1254</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>12</i>			TUBING MATERIAL CODE: <i>HDPE/S</i>			FIELD-FILTERED: Y ☒ N ☐		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y ☒ N ☐			TUBING Y ☒ N (replaced) ☐			DUPLICATE: Y ☒ N ☐			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<i>012</i>	<i>1</i>	<i>PE</i>	<i>1L</i>	<i>cool</i>	<i>0</i>	<i>6.9</i>	<i>Cl / NO₃ - S</i>	<i>APP</i>	<i><300</i>
<i>↓</i>	<i>1</i>	<i>PE</i>	<i>250mL</i>	<i>H₂O₂</i>	<i>↓</i>	<i><3</i>	<i>ME - AL₃</i>	<i>↓</i>	<i>↓</i>
<i>↓</i>	<i>1</i>	<i>PE</i>	<i>250mL</i>	<i>H₂O₂</i>	<i>↓</i>	<i><3</i>	<i>NH₃</i>	<i>↓</i>	<i>↓</i>
<i>↓</i>	<i>2</i>	<i>CG</i>	<i>40 mL</i>	<i>cool</i>	<i>↓</i>	<i>6.9</i>	<i>ED₂ + D₂O₂</i>	<i>↓</i>	<i>↓</i>
<i>↓</i>	<i>3</i>	<i>CG</i>	<i>40 mL</i>	<i>HCL</i>	<i>↓</i>	<i><2</i>	<i>8260</i>	<i>↓</i>	<i>↓</i>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

Book Number:

December 13, 2022

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill (Existing)
Pace Project No.: 35760284

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35760284001	GW-15	Water	11/16/22 09:04	11/16/22 17:01
35760284002	GW-16	Water	11/16/22 10:09	11/16/22 17:01
35760284003	GW-17	Water	11/16/22 11:01	11/16/22 17:01
35760284004	GW-18	Water	11/16/22 12:02	11/16/22 17:01
35760284005	GW-19	Water	11/16/22 13:17	11/16/22 17:01
35760284006	GW-20	Water	11/16/22 14:11	11/16/22 17:01
35760284007	GW-21	Water	11/16/22 15:04	11/16/22 17:01
35760284008	BGW-1	Water	11/16/22 08:19	11/16/22 17:01
35760284009	GW-15 DUP	Water	11/16/22 09:04	11/16/22 17:01
35760284010	Trip Blank 3	Water	11/16/22 00:01	11/16/22 17:01

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760284001	GW-15	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760284002	GW-16	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760284003	GW-17	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760284004	GW-18	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	ZAS	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760284005	GW-19	EPA 8011	SCL	2	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760284006	GW-20	EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
35760284007	GW-21	EPA 353.2	KW1	1	PASI-O
		EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
		EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
35760284008	BGW-1	EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
		EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
35760284009	GW-15 DUP	EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	BSL	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760284010	Trip Blank 3	EPA 8011	SCL	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

10 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 872680

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760244005

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4804007)
- Iron

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 7470

Description: 7470 Mercury

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 7470 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 873928

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BGW-1 (Lab ID: 35760284008)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- BLANK (Lab ID: 4810499)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- DUP (Lab ID: 4810501)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- GW-15 (Lab ID: 35760284001)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- GW-15 DUP (Lab ID: 35760284009)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- GW-16 (Lab ID: 35760284002)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- GW-17 (Lab ID: 35760284003)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- GW-18 (Lab ID: 35760284004)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873928

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- Bromomethane
- Carbon tetrachloride
- Iodomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4810500)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane
- MS (Lab ID: 4810502)
 - Bromomethane
 - Carbon tetrachloride
 - Iodomethane

QC Batch: 873930

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4810515)
 - Bromomethane
 - Iodomethane
- DUP (Lab ID: 4810517)
 - Bromomethane
 - Iodomethane
- GW-19 (Lab ID: 35760284005)
 - Bromomethane
- GW-20 (Lab ID: 35760284006)
 - Bromomethane
- GW-21 (Lab ID: 35760284007)
 - Bromomethane
 - Iodomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- GW-19 (Lab ID: 35760284005)
 - Iodomethane
- GW-20 (Lab ID: 35760284006)
 - Iodomethane
- LCS (Lab ID: 4810516)
 - Bromomethane
 - Iodomethane
- MS (Lab ID: 4810518)
 - Bromomethane
 - Iodomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 873928

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760284004

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4810502)
 - 1,1,1,2-Tetrachloroethane
 - 1,1,1-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,1,2-Trichloroethane
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,2,3-Trichloropropane
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
 - Acetone
 - Acrylonitrile
 - Benzene
 - Bromochloromethane
 - Bromodichloromethane
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Dibromochloromethane
 - Dibromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873928

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760284004

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Ethylbenzene
- Methylene Chloride
- Styrene
- Tetrachloroethene
- Toluene
- Trichloroethene
- Trichlorofluoromethane
- Vinyl acetate
- Vinyl chloride
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- trans-1,4-Dichloro-2-butene

QC Batch: 873930

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760722003

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4810518)
 - 1,1,1,2-Tetrachloroethane
 - 1,1,1-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,1,2-Trichloroethane
 - 1,1-Dichloroethane
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 4-Methyl-2-pentanone (MIBK)
 - Acetone
 - Acrylonitrile
 - Benzene
 - Bromochloromethane
 - Bromodichloromethane
 - Bromoform
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Dibromomethane
 - Ethylbenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 873930

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760722003

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Methylene Chloride
- Styrene
- Toluene
- Trichloroethene
- Vinyl acetate
- Vinyl chloride
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for SM 2540C by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ unpres

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

9 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15		Lab ID: 35760284001		Collected: 11/16/22 09:04		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.70	Std. Units			1		11/16/22 09:04		
Field Temperature	25.8	deg C			1		11/16/22 09:04		
Field Specific Conductance	664	umhos/cm			1		11/16/22 09:04		
Oxygen, Dissolved	1.00	mg/L			1		11/16/22 09:04	7782-44-7	
Turbidity	1.91	NTU			1		11/16/22 09:04		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:29	11/22/22 03:03	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:29	11/22/22 03:03	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	45.7	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 14:50	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 14:50	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 14:50	7440-43-9	
Chromium	6.6	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 14:50	7440-47-3	
Cobalt	1.2 I	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 14:50	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 14:50	7440-50-8	
Iron	15700	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 14:50	7439-89-6	
Nickel	2.4 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:50	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:50	7440-22-4	
Sodium	38.5	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 14:50	7440-23-5	
Vanadium	39.9	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 14:50	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 14:50	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:45	7440-36-0	
Arsenic	4.2	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:45	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:45	7439-92-1	
Selenium	0.62 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:45	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:23	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 06:17	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 06:17	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:17	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:17	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15 **Lab ID: 35760284001** Collected: 11/16/22 09:04 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 06:17	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 06:17	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 06:17	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 06:17	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:17	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 06:17	56-23-5	J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 06:17	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 06:17	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 06:17	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 06:17	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 06:17	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 06:17	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 06:17	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 06:17	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 06:17	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 06:17	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:17	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:17	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:17	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:17	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:17	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 06:17	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:17	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:17	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 06:17	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 06:17	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 06:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 06:17	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 06:17	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 06:17	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:17	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 06:17	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 06:17	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:17	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:17	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 06:17	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 06:17	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 06:17	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:17	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 06:17	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 06:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/23/22 06:17	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/23/22 06:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/23/22 06:17	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15		Lab ID: 35760284001		Collected: 11/16/22 09:04		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	437	mg/L	5.0	5.0	1		11/19/22 21:33		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	46.6	mg/L	5.0	2.5	1		11/29/22 20:44	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.82	mg/L	0.050	0.035	1		11/30/22 16:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/17/22 07:38	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-16		Lab ID: 35760284002		Collected: 11/16/22 10:09		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.87	Std. Units			1		11/16/22 10:09		
Field Temperature	26.3	deg C			1		11/16/22 10:09		
Field Specific Conductance	868	umhos/cm			1		11/16/22 10:09		
Oxygen, Dissolved	1.70	mg/L			1		11/16/22 10:09	7782-44-7	
Turbidity	7.15	NTU			1		11/16/22 10:09		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:29	11/22/22 03:17	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:29	11/22/22 03:17	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	29.8	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 14:54	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 14:54	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 14:54	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 14:54	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 14:54	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 14:54	7440-50-8	
Iron	50.2	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 14:54	7439-89-6	
Nickel	4.1 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:54	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:54	7440-22-4	
Sodium	43.4	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 14:54	7440-23-5	
Vanadium	6.2 I	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 14:54	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 14:54	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:48	7440-36-0	
Arsenic	1.0	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:48	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:48	7439-92-1	
Selenium	0.64 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:48	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:26	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 06:39	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 06:39	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:39	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:39	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-16 **Lab ID: 35760284002** Collected: 11/16/22 10:09 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 06:39	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 06:39	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 06:39	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 06:39	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:39	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 06:39	56-23-5	J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 06:39	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 06:39	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 06:39	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 06:39	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 06:39	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 06:39	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 06:39	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 06:39	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 06:39	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 06:39	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:39	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:39	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:39	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:39	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:39	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 06:39	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:39	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:39	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 06:39	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 06:39	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 06:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 06:39	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 06:39	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 06:39	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:39	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 06:39	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 06:39	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:39	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:39	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 06:39	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 06:39	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 06:39	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:39	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 06:39	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 06:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/23/22 06:39	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/23/22 06:39	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/23/22 06:39	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-16 Lab ID: 35760284002 Collected: 11/16/22 10:09 Received: 11/16/22 17:01 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	514	mg/L	5.0	5.0	1		11/22/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	81.1	mg/L	10.0	5.0	2		11/29/22 21:06	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	1.5	mg/L	0.050	0.035	1		11/30/22 16:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/17/22 07:56	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-17		Lab ID: 35760284003		Collected: 11/16/22 11:01		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	5.91	Std. Units			1		11/16/22 11:01		
Field Temperature	27.0	deg C			1		11/16/22 11:01		
Field Specific Conductance	227.7	umhos/cm			1		11/16/22 11:01		
Oxygen, Dissolved	1.96	mg/L			1		11/16/22 11:01	7782-44-7	
Turbidity	4.82	NTU			1		11/16/22 11:01		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0067 U	ug/L	0.021	0.0067	1	11/21/22 11:37	11/22/22 04:02	96-12-8	
1,2-Dibromoethane (EDB)	0.0078 U	ug/L	0.010	0.0078	1	11/21/22 11:37	11/22/22 04:02	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	6.7 I	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 14:58	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 14:58	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 14:58	7440-43-9	
Chromium	5.2	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 14:58	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 14:58	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 14:58	7440-50-8	
Iron	11200	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 14:58	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:58	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 14:58	7440-22-4	
Sodium	5.2	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 14:58	7440-23-5	
Vanadium	19.6	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 14:58	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 14:58	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:50	7440-36-0	
Arsenic	4.5	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:50	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:50	7439-92-1	
Selenium	1.5 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:50	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:28	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 07:01	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 07:01	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:01	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:01	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-17		Lab ID: 35760284003		Collected: 11/16/22 11:01		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 07:01	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 07:01	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 07:01	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 07:01	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:01	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 07:01	56-23-5	J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 07:01	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 07:01	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 07:01	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 07:01	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 07:01	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 07:01	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 07:01	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 07:01	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 07:01	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 07:01	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:01	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:01	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:01	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:01	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:01	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 07:01	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:01	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:01	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 07:01	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 07:01	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 07:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 07:01	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 07:01	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 07:01	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:01	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 07:01	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 07:01	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:01	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:01	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 07:01	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 07:01	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 07:01	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:01	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 07:01	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 07:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/23/22 07:01	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/23/22 07:01	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/23/22 07:01	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-17		Lab ID: 35760284003		Collected: 11/16/22 11:01		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	167	mg/L	5.0	5.0	1		11/22/22 13:44		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	9.8	mg/L	5.0	2.5	1		11/29/22 21:28	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	1.1	mg/L	0.050	0.035	1		11/30/22 16:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.059	mg/L	0.050	0.025	1		11/17/22 08:58	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-18		Lab ID: 35760284004		Collected: 11/16/22 12:02		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.45	Std. Units			1		11/16/22 12:02		
Field Temperature	26.5	deg C			1		11/16/22 12:02		
Field Specific Conductance	434.1	umhos/cm			1		11/16/22 12:02		
Oxygen, Dissolved	1.43	mg/L			1		11/16/22 12:02	7782-44-7	
Turbidity	4.04	NTU			1		11/16/22 12:02		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:37	11/22/22 04:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:37	11/22/22 04:32	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	18.7	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:02	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:02	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:02	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:02	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:02	7440-48-4	
Copper	3.1 I	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:02	7440-50-8	
Iron	254	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:02	7439-89-6	
Nickel	1.6 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:02	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:02	7440-22-4	
Sodium	4.8	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:02	7440-23-5	
Vanadium	4.8 I	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:02	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:02	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:53	7440-36-0	
Arsenic	1.7	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:53	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:53	7439-92-1	
Selenium	0.85 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:53	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:30	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 07:46	67-64-1	J(M1)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 07:46	107-13-1	J(M1)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:46	71-43-2	J(M1)
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:46	74-97-5	J(M1)

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-18 **Lab ID: 35760284004** Collected: 11/16/22 12:02 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 07:46	75-27-4	J(M1)
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 07:46	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 07:46	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 07:46	78-93-3	J(M1)
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:46	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 07:46	56-23-5	J(M1), J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 07:46	108-90-7	J(M1)
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 07:46	75-00-3	J(M1)
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 07:46	67-66-3	J(M1)
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 07:46	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 07:46	124-48-1	J(M1)
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 07:46	74-95-3	J(M1)
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 07:46	95-50-1	J(M1)
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 07:46	106-46-7	J(M1)
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 07:46	110-57-6	J(M1)
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 07:46	75-34-3	J(M1)
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:46	107-06-2	J(M1)
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:46	75-35-4	J(M1)
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:46	156-59-2	J(M1)
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:46	156-60-5	J(M1)
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:46	78-87-5	J(M1)
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 07:46	10061-01-5	J(M1)
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:46	10061-02-6	J(M1)
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:46	100-41-4	J(M1)
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 07:46	591-78-6	J(M1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 07:46	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 07:46	75-09-2	J(M1)
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 07:46	108-10-1	J(M1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 07:46	100-42-5	J(M1)
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 07:46	630-20-6	J(M1)
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:46	79-34-5	J(M1)
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 07:46	127-18-4	J(M1)
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 07:46	108-88-3	J(M1)
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:46	71-55-6	J(M1)
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:46	79-00-5	J(M1)
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 07:46	79-01-6	J(M1)
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 07:46	75-69-4	J(M1)
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 07:46	96-18-4	J(M1)
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:46	108-05-4	J(M1)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 07:46	75-01-4	J(M1)
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 07:46	1330-20-7	MS
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/23/22 07:46	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/23/22 07:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-18		Lab ID: 35760284004		Collected: 11/16/22 12:02		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/23/22 07:46	2199-69-1	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach								
Total Dissolved Solids	302	mg/L	5.0	5.0	1		11/22/22 13:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	12.1	mg/L	5.0	2.5	1		11/29/22 21:50	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach								
Nitrogen, Ammonia	0.32	mg/L	0.050	0.035	1		11/30/22 16:57	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, Nitrate	1.0	mg/L	0.050	0.025	1		11/17/22 10:55	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-19		Lab ID: 35760284005		Collected: 11/16/22 13:17		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.80	Std. Units			1		11/16/22 13:17		
Field Temperature	26.1	deg C			1		11/16/22 13:17		
Field Specific Conductance	499.7	umhos/cm			1		11/16/22 13:17		
Oxygen, Dissolved	1.51	mg/L			1		11/16/22 13:17	7782-44-7	
Turbidity	4.93	NTU			1		11/16/22 13:17		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:37	11/22/22 05:17	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:37	11/22/22 05:17	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	17.7	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:13	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:13	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:13	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:13	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:13	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:13	7440-50-8	
Iron	1150	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:13	7439-89-6	
Nickel	1.6 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:13	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:13	7440-22-4	
Sodium	4.2	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:13	7440-23-5	
Vanadium	2.5 I	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:13	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:13	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:56	7440-36-0	
Arsenic	5.3	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:56	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:56	7439-92-1	
Selenium	0.44 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:56	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:32	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 06:19	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 06:19	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:19	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:19	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-19		Lab ID: 35760284005		Collected: 11/16/22 13:17		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 06:19	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 06:19	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 06:19	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 06:19	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:19	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 06:19	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 06:19	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 06:19	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 06:19	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 06:19	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 06:19	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 06:19	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 06:19	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 06:19	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 06:19	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 06:19	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:19	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:19	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:19	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:19	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:19	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 06:19	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:19	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:19	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 06:19	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 06:19	74-88-4	J(v3)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 06:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 06:19	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 06:19	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 06:19	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:19	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 06:19	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 06:19	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:19	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:19	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 06:19	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 06:19	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 06:19	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:19	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 06:19	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 06:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/23/22 06:19	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		11/23/22 06:19	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/23/22 06:19	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-19		Lab ID: 35760284005		Collected: 11/16/22 13:17		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	328	mg/L	5.0	5.0	1		11/23/22 08:09		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	22.9	mg/L	5.0	2.5	1		11/29/22 22:11	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.24	mg/L	0.050	0.035	1		11/30/22 16:59	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/17/22 10:35	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-20		Lab ID: 35760284006		Collected: 11/16/22 14:11		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.64	Std. Units			1		11/16/22 14:11		
Field Temperature	26.2	deg C			1		11/16/22 14:11		
Field Specific Conductance	393.1	umhos/cm			1		11/16/22 14:11		
Oxygen, Dissolved	1.32	mg/L			1		11/16/22 14:11	7782-44-7	
Turbidity	2.34	NTU			1		11/16/22 14:11		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:37	11/22/22 05:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:37	11/22/22 05:32	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	14.0	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:17	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:17	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:17	7440-43-9	
Chromium	3.9 I	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:17	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:17	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:17	7440-50-8	
Iron	635	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:17	7439-89-6	
Nickel	1.6 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:17	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:17	7440-22-4	
Sodium	3.7	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:17	7440-23-5	
Vanadium	3.5 I	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:17	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:17	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:58	7440-36-0	
Arsenic	4.7	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 15:58	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 15:58	7439-92-1	
Selenium	0.72 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 15:58	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 15:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:35	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 06:42	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 06:42	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:42	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:42	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-20		Lab ID: 35760284006		Collected: 11/16/22 14:11		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 06:42	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 06:42	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 06:42	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 06:42	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:42	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 06:42	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 06:42	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 06:42	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 06:42	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 06:42	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 06:42	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 06:42	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 06:42	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 06:42	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 06:42	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 06:42	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:42	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:42	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 06:42	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:42	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 06:42	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 06:42	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 06:42	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:42	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 06:42	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 06:42	74-88-4	J(v3)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 06:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 06:42	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 06:42	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 06:42	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 06:42	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 06:42	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 06:42	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:42	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 06:42	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 06:42	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 06:42	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 06:42	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 06:42	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 06:42	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 06:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/23/22 06:42	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/23/22 06:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/23/22 06:42	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-20 Lab ID: 35760284006 Collected: 11/16/22 14:11 Received: 11/16/22 17:01 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	253	mg/L	5.0	5.0	1		11/23/22 08:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	6.3	mg/L	5.0	2.5	1		11/29/22 22:33	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.40	mg/L	0.050	0.035	1		11/30/22 17:01	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.051	mg/L	0.050	0.025	1		11/17/22 19:14	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-21 Lab ID: 35760284007 Collected: 11/16/22 15:04 Received: 11/16/22 17:01 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.13	Std. Units			1		11/16/22 15:04		
Field Temperature	26.7	deg C			1		11/16/22 15:04		
Field Specific Conductance	240.1	umhos/cm			1		11/16/22 15:04		
Oxygen, Dissolved	2.11	mg/L			1		11/16/22 15:04	7782-44-7	
Turbidity	5.14	NTU			1		11/16/22 15:04		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:37	11/22/22 05:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:37	11/22/22 05:47	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	12.1	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:20	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:20	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:20	7440-43-9	
Chromium	1.7 I	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:20	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:20	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:20	7440-50-8	
Iron	983	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:20	7439-89-6	
Nickel	1.2 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:20	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:20	7440-22-4	
Sodium	5.5	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:20	7440-23-5	
Vanadium	3.8 I	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:20	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:20	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:01	7440-36-0	
Arsenic	2.3	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:01	7440-38-2	
Lead	0.35 I	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 16:01	7439-92-1	
Selenium	0.79 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 16:01	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 16:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:38	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 07:04	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 07:04	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:04	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:04	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-21 **Lab ID: 35760284007** Collected: 11/16/22 15:04 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 07:04	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 07:04	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 07:04	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 07:04	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:04	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 07:04	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 07:04	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 07:04	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 07:04	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 07:04	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 07:04	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 07:04	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 07:04	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 07:04	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 07:04	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 07:04	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:04	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:04	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 07:04	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:04	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 07:04	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 07:04	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 07:04	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:04	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 07:04	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 07:04	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 07:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 07:04	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 07:04	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 07:04	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 07:04	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 07:04	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 07:04	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:04	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 07:04	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 07:04	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 07:04	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 07:04	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 07:04	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 07:04	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 07:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/23/22 07:04	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/23/22 07:04	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/23/22 07:04	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-21 Lab ID: 35760284007 Collected: 11/16/22 15:04 Received: 11/16/22 17:01 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	170	mg/L	5.0	5.0	1		11/23/22 08:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	8.0	mg/L	5.0	2.5	1		11/29/22 23:39	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.058	mg/L	0.050	0.035	1		11/30/22 17:03	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/17/22 19:27	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: BGW-1 **Lab ID: 35760284008** Collected: 11/16/22 08:19 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.99	Std. Units			1		11/16/22 08:19		
Field Temperature	25.3	deg C			1		11/16/22 08:19		
Field Specific Conductance	839	umhos/cm			1		11/16/22 08:19		
Oxygen, Dissolved	0.83	mg/L			1		11/16/22 08:19	7782-44-7	
Turbidity	1.89	NTU		1.98			11/16/22 08:19		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/21/22 11:37	11/22/22 06:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/21/22 11:37	11/22/22 06:01	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	20.3	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:24	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:24	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:24	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:24	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:24	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:24	7440-50-8	
Iron	133	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:24	7439-89-6	
Nickel	2.7 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:24	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:24	7440-22-4	
Sodium	8.6	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:24	7440-23-5	
Vanadium	38.5	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:24	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:24	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	3.3	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:03	7440-36-0	
Arsenic	2.4	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:03	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 16:03	7439-92-1	
Selenium	69.1	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 16:03	7782-49-2	
Thallium	0.19 I	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 16:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:40	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 08:30	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 08:30	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:30	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 08:30	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: BGW-1 **Lab ID: 35760284008** Collected: 11/16/22 08:19 Received: 11/16/22 17:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 08:30	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 08:30	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 08:30	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 08:30	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 08:30	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 08:30	56-23-5	J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 08:30	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 08:30	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 08:30	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 08:30	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 08:30	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 08:30	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 08:30	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 08:30	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 08:30	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 08:30	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 08:30	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 08:30	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 08:30	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 08:30	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 08:30	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 08:30	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 08:30	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:30	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 08:30	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 08:30	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 08:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 08:30	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 08:30	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 08:30	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 08:30	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 08:30	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 08:30	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:30	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:30	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 08:30	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 08:30	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 08:30	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 08:30	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 08:30	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 08:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/23/22 08:30	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		11/23/22 08:30	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/23/22 08:30	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: BGW-1		Lab ID: 35760284008		Collected: 11/16/22 08:19		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	535	mg/L	5.0	5.0	1		11/19/22 21:33		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	13.7	mg/L	10.0	5.0	2		11/30/22 00:44	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/30/22 17:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	4.6	mg/L	0.050	0.025	1		11/17/22 07:29	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15 DUP		Lab ID: 35760284009		Collected: 11/16/22 17:01		Matrix: Water		
Parameters	Results	Units	PQL	Conductivity	pared	Analyzed	CAS No.	Qual
Field Data								
		Analytical Method:		DO				
		Pace Analytical Services - Ormond Beach						
Field pH	6.70	Std. Units		1		11/16/22 09:04		
Appearance	25.8			1		11/16/22 09:04		
Field Oxidation Potential	664	mV		1		11/16/22 09:04		
Field Residual Chlorine	1.00	mg/L		1		11/16/22 09:04		
Turbidity	1.91	NTU		1		11/16/22 09:04		
8011 GCS EDB and DBCP								
		Analytical Method: EPA 8011		Preparation Method: EPA 8011				
		Pace Analytical Services - Ormond Beach						
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/21/22 11:37	11/22/22 06:16	96-12-8
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/21/22 11:37	11/22/22 06:16	106-93-4
6010 MET ICP								
		Analytical Method: EPA 6010		Preparation Method: EPA 3010				
		Pace Analytical Services - Ormond Beach						
Barium	47.0	ug/L	10.0	0.84	1	11/18/22 05:03	11/23/22 15:30	7440-39-3
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 05:03	11/23/22 15:30	7440-41-7
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 05:03	11/23/22 15:30	7440-43-9
Chromium	6.7	ug/L	5.0	1.7	1	11/18/22 05:03	11/23/22 15:30	7440-47-3
Cobalt	1.1 I	ug/L	10.0	0.96	1	11/18/22 05:03	11/23/22 15:30	7440-48-4
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 05:03	11/23/22 15:30	7440-50-8
Iron	15600	ug/L	40.0	25.0	1	11/18/22 05:03	11/23/22 15:30	7439-89-6
Nickel	2.3 I	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:30	7440-02-0
Silver	1.0 U	ug/L	5.0	1.0	1	11/18/22 05:03	11/23/22 15:30	7440-22-4
Sodium	39.4	mg/L	2.0	0.54	1	11/18/22 05:03	11/23/22 15:30	7440-23-5
Vanadium	40.5	ug/L	10.0	1.0	1	11/18/22 05:03	11/23/22 15:30	7440-62-2
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 05:03	11/23/22 15:30	7440-66-6
6020 MET ICPMS								
		Analytical Method: EPA 6020		Preparation Method: EPA 3010				
		Pace Analytical Services - Ormond Beach						
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:06	7440-36-0
Arsenic	4.1	ug/L	1.0	0.50	1	11/18/22 05:03	11/19/22 16:06	7440-38-2
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 05:03	11/19/22 16:06	7439-92-1
Selenium	0.63 I	ug/L	2.0	0.20	1	11/18/22 05:03	11/19/22 16:06	7782-49-2
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 05:03	11/19/22 16:06	7440-28-0
7470 Mercury								
		Analytical Method: EPA 7470		Preparation Method: EPA 7470				
		Pace Analytical Services - Ormond Beach						
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:42	7439-97-6
8260 MSV								
		Analytical Method: EPA 8260						
		Pace Analytical Services - Ormond Beach						
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 08:53	67-64-1
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 08:53	107-13-1
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:53	71-43-2
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 08:53	74-97-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15 DUP		Lab ID: 35760284009		Collected: 11/16/22 09:04		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 08:53	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 08:53	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 08:53	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 08:53	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 08:53	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 08:53	56-23-5	J(v2)
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 08:53	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 08:53	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 08:53	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 08:53	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 08:53	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 08:53	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 08:53	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 08:53	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 08:53	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 08:53	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 08:53	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 08:53	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 08:53	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 08:53	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 08:53	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 08:53	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 08:53	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:53	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 08:53	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 08:53	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 08:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 08:53	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 08:53	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 08:53	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 08:53	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 08:53	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 08:53	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:53	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 08:53	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 08:53	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 08:53	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 08:53	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 08:53	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 08:53	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 08:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/23/22 08:53	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/23/22 08:53	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		11/23/22 08:53	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: GW-15 DUP		Lab ID: 35760284009		Collected: 11/16/22 09:04		Received: 11/16/22 17:01		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	444	mg/L	5.0	5.0	1		11/19/22 21:33		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	46.4	mg/L	5.0	2.5	1		11/30/22 01:06	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.84	mg/L	0.050	0.035	1		11/30/22 17:07	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/17/22 07:40	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Sample: Trip Blank 3		Lab ID: 35760284010	Collected: 11/16/22 00:01	Received: 11/16/22 17:01	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:37	11/22/22 06:31	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:37	11/22/22 06:31	106-93-4	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	874825	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

METHOD BLANK:	4813855	Matrix:	Water
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/30/22 12:47	

LABORATORY CONTROL SAMPLE: 4813856						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					4813857	4813858							
Parameter	Units	35760334005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	0.090 U	2	2	2.0	2.0	102	102	75-125	0	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.

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872680	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

METHOD BLANK:	4804005	Matrix:	Water
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/23/22 21:47	
Beryllium	ug/L	0.17 U	4.0	0.17	11/23/22 21:47	
Cadmium	ug/L	0.33 U	1.0	0.33	11/23/22 21:47	
Chromium	ug/L	1.7 U	5.0	1.7	11/23/22 21:47	
Cobalt	ug/L	0.96 U	10.0	0.96	11/23/22 21:47	
Copper	ug/L	2.6 U	5.0	2.6	11/23/22 21:47	
Iron	ug/L	25.0 U	40.0	25.0	11/23/22 21:47	
Nickel	ug/L	1.0 U	5.0	1.0	11/23/22 21:47	
Silver	ug/L	1.0 U	5.0	1.0	11/23/22 21:47	
Sodium	mg/L	0.54 U	2.0	0.54	11/23/22 21:47	
Vanadium	ug/L	1.0 U	10.0	1.0	11/23/22 21:47	
Zinc	ug/L	11.0 U	20.0	11.0	11/23/22 21:47	

LABORATORY CONTROL SAMPLE: 4804006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	227	91	80-120	
Beryllium	ug/L	25	23.2	93	80-120	
Cadmium	ug/L	25	24.2	97	80-120	
Chromium	ug/L	250	244	98	80-120	
Cobalt	ug/L	250	242	97	80-120	
Copper	ug/L	250	236	94	80-120	
Iron	ug/L	2500	2250	90	80-120	
Nickel	ug/L	250	242	97	80-120	
Silver	ug/L	25	23.5	94	80-120	
Sodium	mg/L	12.5	11.1	89	80-120	
Vanadium	ug/L	250	239	96	80-120	
Zinc	ug/L	1250	1180	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804007 4804008

Parameter	Units	35760244005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	48.8	250	250	296	298	99	100	75-125	1	20	
Beryllium	ug/L	0.17 U	25	25	22.2	22.5	89	90	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	24.2	24.4	97	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804007 4804008												
Parameter	Units	35760244005		MS	MSD	MS		MS	MSD	% Rec	Max	
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Chromium	ug/L	1.7	U	250	250	248	249	99	100	75-125	1	20
Cobalt	ug/L	4.1	I	250	250	248	250	98	98	75-125	1	20
Copper	ug/L	2.6	U	250	250	247	249	99	100	75-125	1	20
Iron	ug/L	26200		2500	2500	28000	28200	73	82	75-125	1	20 J(M1)
Nickel	ug/L	4.2	I	250	250	246	248	97	98	75-125	1	20
Silver	ug/L	1.0	U	25	25	24.7	25.1	99	100	75-125	2	20
Sodium	mg/L	2.8		12.5	12.5	15.4	15.5	101	102	75-125	0	20
Vanadium	ug/L	3.7	I	250	250	250	252	98	99	75-125	1	20
Zinc	ug/L	11.0	U	1250	1250	1180	1180	94	95	75-125	1	20

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872683	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

METHOD BLANK:	4804009	Matrix:	Water
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/19/22 15:14	
Arsenic	ug/L	0.50 U	1.0	0.50	11/19/22 15:14	
Lead	ug/L	0.22 U	1.0	0.22	11/19/22 15:14	
Selenium	ug/L	0.20 U	2.0	0.20	11/19/22 15:14	
Thallium	ug/L	0.11 U	1.0	0.11	11/19/22 15:14	

LABORATORY CONTROL SAMPLE: 4804010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.6	103	80-120	
Arsenic	ug/L	50	52.8	106	80-120	
Lead	ug/L	50	53.2	106	80-120	
Selenium	ug/L	50	52.0	104	80-120	
Thallium	ug/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804011 4804012

Parameter	Units	35760244006		MS		MSD		MS		MSD		% Rec		Max	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Limits	RPD		
Antimony	ug/L	0.50 U		50	50	49.6	50.6	99	101	75-125	2	20			
Arsenic	ug/L	0.97 I		50	50	52.2	53.2	103	104	75-125	2	20			
Lead	ug/L	0.22 U		50	50	51.9	52.5	104	105	75-125	1	20			
Selenium	ug/L	0.43 I		50	50	50.2	50.9	100	101	75-125	1	20			
Thallium	ug/L	0.11 U		50	50	51.3	52.1	103	104	75-125	2	20			

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch: 873928

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284001, 35760284002, 35760284003, 35760284004, 35760284008, 35760284009

METHOD BLANK: 4810499

Matrix: Water

Associated Lab Samples: 35760284001, 35760284002, 35760284003, 35760284004, 35760284008, 35760284009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/22/22 23:47	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 23:47	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/22/22 23:47	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 23:47	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/22/22 23:47	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/22/22 23:47	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/22/22 23:47	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/22/22 23:47	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/22/22 23:47	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/22/22 23:47	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/22/22 23:47	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/22/22 23:47	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/22/22 23:47	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/22/22 23:47	
Acetone	ug/L	8.7 U	25.0	8.7	11/22/22 23:47	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/22/22 23:47	
Benzene	ug/L	0.30 U	1.0	0.30	11/22/22 23:47	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/22/22 23:47	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/22/22 23:47	
Bromoform	ug/L	0.48 U	3.0	0.48	11/22/22 23:47	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/22/22 23:47	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/22/22 23:47	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/22/22 23:47	J(v2)
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/22/22 23:47	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/22/22 23:47	
Chloroform	ug/L	0.56 U	1.0	0.56	11/22/22 23:47	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/22/22 23:47	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/22/22 23:47	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/22/22 23:47	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/22/22 23:47	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/22/22 23:47	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/22/22 23:47	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/22/22 23:47	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/22/22 23:47	
Styrene	ug/L	0.26 U	1.0	0.26	11/22/22 23:47	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/22/22 23:47	
Toluene	ug/L	0.33 U	1.0	0.33	11/22/22 23:47	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/22/22 23:47	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/22/22 23:47	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/22/22 23:47	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

METHOD BLANK: 4810499

Matrix: Water

Associated Lab Samples: 35760284001, 35760284002, 35760284003, 35760284004, 35760284008, 35760284009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/22/22 23:47	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/22/22 23:47	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/22/22 23:47	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/22/22 23:47	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/22/22 23:47	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130		11/22/22 23:47	
4-Bromofluorobenzene (S)	%	109	70-130		11/22/22 23:47	
Toluene-d8 (S)	%	96	70-130		11/22/22 23:47	

LABORATORY CONTROL SAMPLE: 4810500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.1	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.1	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.1	85	68-125	
1,1,2-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	20	17.2	86	66-133	
1,2,3-Trichloropropane	ug/L	20	17.0	85	62-127	
1,2-Dichlorobenzene	ug/L	20	16.7	83	70-130	
1,2-Dichloroethane	ug/L	20	17.5	88	70-130	
1,2-Dichloropropane	ug/L	20	19.3	96	70-130	
1,4-Dichlorobenzene	ug/L	20	16.4	82	70-130	
2-Butanone (MEK)	ug/L	100	93.0	93	47-143	
2-Hexanone	ug/L	100	96.1	96	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	57-132	
Acetone	ug/L	100	81.1	81	46-148	
Acrylonitrile	ug/L	100	89.9	90	60-143	
Benzene	ug/L	20	18.7	93	70-130	
Bromochloromethane	ug/L	20	19.2	96	70-130	
Bromodichloromethane	ug/L	20	17.1	86	70-130	
Bromoform	ug/L	20	16.3	82	49-126	
Bromomethane	ug/L	20	10.7	53	10-165 J(v3)	
Carbon disulfide	ug/L	20	18.4	92	60-141	
Carbon tetrachloride	ug/L	20	16.0	80	63-126 J(v3)	
Chlorobenzene	ug/L	20	17.9	90	70-130	
Chloroethane	ug/L	20	20.0	100	71-142	
Chloroform	ug/L	20	18.8	94	70-130	
Chloromethane	ug/L	20	17.6	88	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.9	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.6	88	70-130	
Dibromochloromethane	ug/L	20	17.2	86	62-118	
Dibromomethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	17.1	85	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

LABORATORY CONTROL SAMPLE: 4810500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	8.7 I	43	10-164	J(v3)
Methylene Chloride	ug/L	20	18.1	91	65-136	
Styrene	ug/L	20	18.3	92	70-130	
Tetrachloroethene	ug/L	20	18.0	90	64-134	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.7	88	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.5	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	10.8	54	42-129	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	19.0	95	65-135	
Vinyl acetate	ug/L	20	17.0	85	60-144	
Vinyl chloride	ug/L	20	21.0	105	68-131	
Xylene (Total)	ug/L	60	51.8	86	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4810502

Parameter	Units	35760284004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	11.3	57	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.30 U	20	12.2	61	70-130	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	11.0	55	68-125	J(M1)
1,1,2-Trichloroethane	ug/L	0.30 U	20	11.5	57	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.34 U	20	12.5	62	70-130	J(M1)
1,1-Dichloroethene	ug/L	0.59 U	20	11.7	59	66-133	J(M1)
1,2,3-Trichloropropane	ug/L	0.53 U	20	10.9	54	62-127	J(M1)
1,2-Dichlorobenzene	ug/L	0.60 U	20	10	50	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.27 U	20	11.2	56	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.23 U	20	12.2	61	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	0.28 U	20	10.1	51	70-130	J(M1)
2-Butanone (MEK)	ug/L	6.7 U	100	40.1 I	40	47-143	J(M1)
2-Hexanone	ug/L	3.2 U	100	40.0	40	48-145	J(M1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	42.3	42	57-132	J(M1)
Acetone	ug/L	8.7 U	100	36.2	36	46-148	J(M1)
Acrylonitrile	ug/L	3.7 U	100	47.8	48	60-143	J(M1)
Benzene	ug/L	0.30 U	20	12.2	61	70-130	J(M1)
Bromochloromethane	ug/L	0.37 U	20	11.5	58	70-130	J(M1)
Bromodichloromethane	ug/L	0.19 U	20	10.9	54	70-130	J(M1)
Bromoform	ug/L	0.48 U	20	10.1	51	49-126	
Bromomethane	ug/L	3.9 U	20	5.4 I	27	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	12.2	61	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	10.4	52	63-126	J(M1),J(v3)
Chlorobenzene	ug/L	0.35 U	20	11.6	58	70-130	J(M1)
Chloroethane	ug/L	3.7 U	20	13.4	67	71-142	J(M1)

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

MATRIX SPIKE SAMPLE: 4810502		35760284004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	10.9	54	70-130	J(M1)
Chloromethane	ug/L	0.43 U	20	10.3	52	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	11.9	59	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.17 U	20	11.0	55	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	10.4	52	62-118	J(M1)
Dibromomethane	ug/L	0.68 U	20	11.8	59	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	11.1	56	70-130	J(M1)
Iodomethane	ug/L	3.6 U	20	4.4 I	22	10-164	J(v3)
Methylene Chloride	ug/L	1.7 U	20	12.2	61	65-136	J(M1)
Styrene	ug/L	0.26 U	20	11.2	56	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	11.6	58	64-134	J(M1)
Toluene	ug/L	0.33 U	20	11.8	59	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	0.23 U	20	11.7	59	68-127	J(M1)
trans-1,3-Dichloropropene	ug/L	0.37 U	20	10.9	54	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	7.7 I	38	42-129	J(M1)
Trichloroethene	ug/L	0.36 U	20	12.2	61	70-130	J(M1)
Trichlorofluoromethane	ug/L	0.72 U	20	10.8	54	65-135	J(M1)
Vinyl acetate	ug/L	1.8 U	20	7.3 I	36	60-144	J(M1)
Vinyl chloride	ug/L	0.39 U	20	13.1	65	68-131	J(M1)
Xylene (Total)	ug/L	2.1 U	60	33.5	56	70-130	MS
1,2-Dichlorobenzene-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 4810501

Parameter	Units	35760284003	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	8.7 U	8.7 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

SAMPLE DUPLICATE: 4810501

Parameter	Units	35760284003 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	J(v2)
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	99	101		40	
4-Bromofluorobenzene (S)	%	104	105		40	
Toluene-d8 (S)	%	96	96		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch: 873930

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284005, 35760284006, 35760284007

METHOD BLANK: 4810515

Matrix: Water

Associated Lab Samples: 35760284005, 35760284006, 35760284007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/22/22 23:50	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 23:50	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/22/22 23:50	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/22/22 23:50	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/22/22 23:50	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/22/22 23:50	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/22/22 23:50	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/22/22 23:50	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/22/22 23:50	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/22/22 23:50	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/22/22 23:50	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/22/22 23:50	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/22/22 23:50	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/22/22 23:50	
Acetone	ug/L	8.7 U	25.0	8.7	11/22/22 23:50	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/22/22 23:50	
Benzene	ug/L	0.30 U	1.0	0.30	11/22/22 23:50	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/22/22 23:50	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/22/22 23:50	
Bromoform	ug/L	0.48 U	3.0	0.48	11/22/22 23:50	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/22/22 23:50	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/22/22 23:50	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/22/22 23:50	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/22/22 23:50	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/22/22 23:50	
Chloroform	ug/L	0.56 U	1.0	0.56	11/22/22 23:50	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/22/22 23:50	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/22/22 23:50	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/22/22 23:50	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/22/22 23:50	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/22/22 23:50	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/22/22 23:50	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/22/22 23:50	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/22/22 23:50	
Styrene	ug/L	0.26 U	1.0	0.26	11/22/22 23:50	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/22/22 23:50	
Toluene	ug/L	0.33 U	1.0	0.33	11/22/22 23:50	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/22/22 23:50	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/22/22 23:50	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/22/22 23:50	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

METHOD BLANK: 4810515

Matrix: Water

Associated Lab Samples: 35760284005, 35760284006, 35760284007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/22/22 23:50	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/22/22 23:50	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/22/22 23:50	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/22/22 23:50	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/22/22 23:50	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130		11/22/22 23:50	
4-Bromofluorobenzene (S)	%	106	70-130		11/22/22 23:50	
Toluene-d8 (S)	%	101	70-130		11/22/22 23:50	

LABORATORY CONTROL SAMPLE: 4810516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.9	84	70-130	
1,1,1-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	92	68-125	
1,1,2-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	20.0	100	66-133	
1,2,3-Trichloropropane	ug/L	20	16.9	85	62-127	
1,2-Dichlorobenzene	ug/L	20	17.4	87	70-130	
1,2-Dichloroethane	ug/L	20	19.4	97	70-130	
1,2-Dichloropropane	ug/L	20	19.3	96	70-130	
1,4-Dichlorobenzene	ug/L	20	16.9	85	70-130	
2-Butanone (MEK)	ug/L	100	95.3	95	47-143	
2-Hexanone	ug/L	100	105	105	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	57-132	
Acetone	ug/L	100	83.8	84	46-148	
Acrylonitrile	ug/L	100	87.7	88	60-143	
Benzene	ug/L	20	19.7	98	70-130	
Bromochloromethane	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	17.3	86	49-126	
Bromomethane	ug/L	20	7.8 I	39	10-165 J(v3)	
Carbon disulfide	ug/L	20	18.2	91	60-141	
Carbon tetrachloride	ug/L	20	18.7	93	63-126	
Chlorobenzene	ug/L	20	18.9	94	70-130	
Chloroethane	ug/L	20	17.9	89	71-142	
Chloroform	ug/L	20	16.8	84	70-130	
Chloromethane	ug/L	20	17.2	86	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	18.1	90	62-118	
Dibromomethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	17.9	89	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

LABORATORY CONTROL SAMPLE: 4810516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	13.1	65	10-164	J(v3)
Methylene Chloride	ug/L	20	18.3	91	65-136	
Styrene	ug/L	20	18.9	94	70-130	
Tetrachloroethene	ug/L	20	17.9	89	64-134	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.3	91	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.4	82	42-129	
Trichloroethene	ug/L	20	17.4	87	70-130	
Trichlorofluoromethane	ug/L	20	21.7	108	65-135	
Vinyl acetate	ug/L	20	19.8	99	60-144	
Vinyl chloride	ug/L	20	19.1	95	68-131	
Xylene (Total)	ug/L	60	54.6	91	70-130	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4810518

Parameter	Units	35760722003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	11.0	55	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.30 U	20	13.5	68	70-130	J(M1)
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	12.5	63	68-125	J(M1)
1,1,2-Trichloroethane	ug/L	0.30 U	20	12.4	62	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.34 U	20	13.7	68	70-130	J(M1)
1,1-Dichloroethene	ug/L	0.59 U	20	13.3	67	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	12.4	62	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	11.6	58	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.27 U	20	12.7	64	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.23 U	20	11.9	60	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	0.28 U	20	11.3	56	70-130	J(M1)
2-Butanone (MEK)	ug/L	6.7 U	100	44.7 I	45	47-143	J(M1)
2-Hexanone	ug/L	3.2 U	100	53.2	53	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	51.8	52	57-132	J(M1)
Acetone	ug/L	8.7 U	100	39.6	40	46-148	J(M1)
Acrylonitrile	ug/L	3.7 U	100	44.3	44	60-143	J(M1)
Benzene	ug/L	0.30 U	20	13.4	67	70-130	J(M1)
Bromochloromethane	ug/L	0.37 U	20	13.4	67	70-130	J(M1)
Bromodichloromethane	ug/L	1.5	20	13.3	59	70-130	J(M1)
Bromoform	ug/L	0.48 U	20	8.2	41	49-126	J(M1)
Bromomethane	ug/L	3.9 U	20	7.5 I	37	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	12.2	61	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	13.5	67	63-126	
Chlorobenzene	ug/L	0.35 U	20	12.6	63	70-130	J(M1)
Chloroethane	ug/L	3.7 U	20	12.0	60	71-142	J(M1)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)
Pace Project No.: 35760284

MATRIX SPIKE SAMPLE: 4810518		35760722003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	3.8	20	15.1	57	70-130	J(M1)
Chloromethane	ug/L	0.43 U	20	10.6	53	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	11.9	59	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	0.17 U	20	10.8	54	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	12.5	62	62-118	
Dibromomethane	ug/L	0.68 U	20	12.8	64	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	12.1	61	70-130	J(M1)
Iodomethane	ug/L	3.6 U	20	7.0 I	35	10-164	J(v3)
Methylene Chloride	ug/L	1.7 U	20	12.4	62	65-136	J(M1)
Styrene	ug/L	0.26 U	20	11.6	58	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	13.3	66	64-134	
Toluene	ug/L	0.33 U	20	12.2	61	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	0.23 U	20	13.8	69	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	11.0	55	65-121	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	9.3 I	47	42-129	
Trichloroethene	ug/L	0.36 U	20	11.5	58	70-130	J(M1)
Trichlorofluoromethane	ug/L	0.72 U	20	13.0	65	65-135	
Vinyl acetate	ug/L	1.8 U	20	8.7 I	43	60-144	J(M1)
Vinyl chloride	ug/L	0.39 U	20	11.1	56	68-131	J(M1)
Xylene (Total)	ug/L	2.1 U	60	35.9	60	70-130	MS
1,2-Dichlorobenzene-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				108	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 4810517

Parameter	Units	35760722002	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.38 I		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	8.7 U	8.7 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

SAMPLE DUPLICATE: 4810517

Parameter	Units	35760722002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.29 I		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.68 I		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	99	99		40	
4-Bromofluorobenzene (S)	%	107	103		40	
Toluene-d8 (S)	%	101	101		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	873221	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284001, 35760284002

METHOD BLANK: 4806904 Matrix: Water

Associated Lab Samples: 35760284001, 35760284002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/21/22 21:04	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/21/22 21:04	

LABORATORY CONTROL SAMPLE: 4806905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.26	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	104	60-140	

MATRIX SPIKE SAMPLE: 4806906

Parameter	Units	35760283002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.25	0.19	74	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.25	0.19	77	60-140	

SAMPLE DUPLICATE: 4806907

Parameter	Units	35760283003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.0064 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.0075 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	873222	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009, 35760284010		

METHOD BLANK:	4806908	Matrix:	Water
Associated Lab Samples:	35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009, 35760284010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/22/22 03:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/22/22 03:33	

LABORATORY CONTROL SAMPLE:	4806909					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	100	60-140	

MATRIX SPIKE SAMPLE:	4806910						
		35760284003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0067 U	0.25	0.22	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0078 U	0.25	0.23	89	60-140	

SAMPLE DUPLICATE:	4806911					
Parameter	Units	35760284004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	0.0063 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	0.0074 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	873135	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284008, 35760284009		

METHOD BLANK: 4806479 Matrix: Water

Associated Lab Samples: 35760284001, 35760284008, 35760284009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/19/22 21:33	

LABORATORY CONTROL SAMPLE: 4806480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	300	100	90-110	

SAMPLE DUPLICATE: 4806481

Parameter	Units	20261477001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	113	105	7	10	

SAMPLE DUPLICATE: 4806482

Parameter	Units	35760375003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	313	316	1	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch: 873653

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284002

METHOD BLANK: 4808849

Matrix: Water

Associated Lab Samples: 35760284002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/22/22 11:12	

LABORATORY CONTROL SAMPLE: 4808850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	90-110	

SAMPLE DUPLICATE: 4808851

Parameter	Units	35760244006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	92.0	88.0	4	10	

SAMPLE DUPLICATE: 4808852

Parameter	Units	35760381002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27800	27800	0	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch: 873786

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284003, 35760284004

METHOD BLANK: 4809392

Matrix: Water

Associated Lab Samples: 35760284003, 35760284004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/22/22 13:44	

LABORATORY CONTROL SAMPLE: 4809393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	305	102	90-110	

SAMPLE DUPLICATE: 4809394

Parameter	Units	35760244007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	499	488	2	10	

SAMPLE DUPLICATE: 4809395

Parameter	Units	35760377002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1040	0	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch: 873974

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284005, 35760284006, 35760284007

METHOD BLANK: 4810811

Matrix: Water

Associated Lab Samples: 35760284005, 35760284006, 35760284007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/23/22 08:09	

LABORATORY CONTROL SAMPLE: 4810812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	90-110	

SAMPLE DUPLICATE: 4810813

Parameter	Units	35760244009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	578	594	3	10	

SAMPLE DUPLICATE: 4810814

Parameter	Units	35760334008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5060	4960	2	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	875165	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

METHOD BLANK:	4815330	Matrix:	Water
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/29/22 17:50	

LABORATORY CONTROL SAMPLE: 4815331						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4817476			4817477								
Parameter	Units	35761810001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	59.9	59.3	99	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	4817478			4817479								
Parameter	Units	35760284007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	55.0	55.1	94	94	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	875260	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

METHOD BLANK:	4815874	Matrix:	Water
Associated Lab Samples:	35760284001, 35760284002, 35760284003, 35760284004, 35760284005, 35760284006, 35760284007, 35760284008, 35760284009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/30/22 16:11	

LABORATORY CONTROL SAMPLE: 4815875						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					4815877	4815876							
Parameter	Units	35762011001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Ammonia	mg/L	0.91	1	1	1.9	1.9	102	103	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
4815878					4815879							
Parameter	Units	35762080002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.035 U	1	1	1.0	1.0	103	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872253	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284001, 35760284008, 35760284009		

METHOD BLANK: 4801400 Matrix: Water

Associated Lab Samples: 35760284001, 35760284008, 35760284009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/22 07:08	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872254	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284002, 35760284003, 35760284004		

METHOD BLANK: 4801406 Matrix: Water

Associated Lab Samples: 35760284002, 35760284003, 35760284004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/22 07:46	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872309	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35760284005		

METHOD BLANK: 4801666

Matrix: Water

Associated Lab Samples: 35760284005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/22 10:05	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

QC Batch:	872609	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760284006, 35760284007

METHOD BLANK: 4803545 Matrix: Water

Associated Lab Samples: 35760284006, 35760284007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/22 19:00	

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QUALIFIERS

Project: Lena Road Landfill (Existing)
Pace Project No.: 35760284

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760284001	GW-15				
35760284002	GW-16				
35760284003	GW-17				
35760284004	GW-18				
35760284005	GW-19				
35760284006	GW-20				
35760284007	GW-21				
35760284008	BGW-1				
35760284009	GW-15 DUP				
35760284001	GW-15	EPA 8011	873221	EPA 8011	873526
35760284002	GW-16	EPA 8011	873221	EPA 8011	873526
35760284003	GW-17	EPA 8011	873222	EPA 8011	873527
35760284004	GW-18	EPA 8011	873222	EPA 8011	873527
35760284005	GW-19	EPA 8011	873222	EPA 8011	873527
35760284006	GW-20	EPA 8011	873222	EPA 8011	873527
35760284007	GW-21	EPA 8011	873222	EPA 8011	873527
35760284008	BGW-1	EPA 8011	873222	EPA 8011	873527
35760284009	GW-15 DUP	EPA 8011	873222	EPA 8011	873527
35760284010	Trip Blank 3	EPA 8011	873222	EPA 8011	873527
35760284001	GW-15	EPA 3010	872680	EPA 6010	872739
35760284002	GW-16	EPA 3010	872680	EPA 6010	872739
35760284003	GW-17	EPA 3010	872680	EPA 6010	872739
35760284004	GW-18	EPA 3010	872680	EPA 6010	872739
35760284005	GW-19	EPA 3010	872680	EPA 6010	872739
35760284006	GW-20	EPA 3010	872680	EPA 6010	872739
35760284007	GW-21	EPA 3010	872680	EPA 6010	872739
35760284008	BGW-1	EPA 3010	872680	EPA 6010	872739
35760284009	GW-15 DUP	EPA 3010	872680	EPA 6010	872739
35760284001	GW-15	EPA 3010	872683	EPA 6020	872740
35760284002	GW-16	EPA 3010	872683	EPA 6020	872740
35760284003	GW-17	EPA 3010	872683	EPA 6020	872740
35760284004	GW-18	EPA 3010	872683	EPA 6020	872740
35760284005	GW-19	EPA 3010	872683	EPA 6020	872740
35760284006	GW-20	EPA 3010	872683	EPA 6020	872740
35760284007	GW-21	EPA 3010	872683	EPA 6020	872740
35760284008	BGW-1	EPA 3010	872683	EPA 6020	872740
35760284009	GW-15 DUP	EPA 3010	872683	EPA 6020	872740
35760284001	GW-15	EPA 7470	874825	EPA 7470	874959
35760284002	GW-16	EPA 7470	874825	EPA 7470	874959
35760284003	GW-17	EPA 7470	874825	EPA 7470	874959
35760284004	GW-18	EPA 7470	874825	EPA 7470	874959
35760284005	GW-19	EPA 7470	874825	EPA 7470	874959
35760284006	GW-20	EPA 7470	874825	EPA 7470	874959
35760284007	GW-21	EPA 7470	874825	EPA 7470	874959
35760284008	BGW-1	EPA 7470	874825	EPA 7470	874959
35760284009	GW-15 DUP	EPA 7470	874825	EPA 7470	874959

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760284001	GW-15	EPA 8260	873928		
35760284002	GW-16	EPA 8260	873928		
35760284003	GW-17	EPA 8260	873928		
35760284004	GW-18	EPA 8260	873928		
35760284005	GW-19	EPA 8260	873930		
35760284006	GW-20	EPA 8260	873930		
35760284007	GW-21	EPA 8260	873930		
35760284008	BGW-1	EPA 8260	873928		
35760284009	GW-15 DUP	EPA 8260	873928		
35760284001	GW-15	SM 2540C	873135		
35760284002	GW-16	SM 2540C	873653		
35760284003	GW-17	SM 2540C	873786		
35760284004	GW-18	SM 2540C	873786		
35760284005	GW-19	SM 2540C	873974		
35760284006	GW-20	SM 2540C	873974		
35760284007	GW-21	SM 2540C	873974		
35760284008	BGW-1	SM 2540C	873135		
35760284009	GW-15 DUP	SM 2540C	873135		
35760284001	GW-15	EPA 300.0	875165		
35760284002	GW-16	EPA 300.0	875165		
35760284003	GW-17	EPA 300.0	875165		
35760284004	GW-18	EPA 300.0	875165		
35760284005	GW-19	EPA 300.0	875165		
35760284006	GW-20	EPA 300.0	875165		
35760284007	GW-21	EPA 300.0	875165		
35760284008	BGW-1	EPA 300.0	875165		
35760284009	GW-15 DUP	EPA 300.0	875165		
35760284001	GW-15	EPA 350.1	875260		
35760284002	GW-16	EPA 350.1	875260		
35760284003	GW-17	EPA 350.1	875260		
35760284004	GW-18	EPA 350.1	875260		
35760284005	GW-19	EPA 350.1	875260		
35760284006	GW-20	EPA 350.1	875260		
35760284007	GW-21	EPA 350.1	875260		
35760284008	BGW-1	EPA 350.1	875260		
35760284009	GW-15 DUP	EPA 350.1	875260		
35760284001	GW-15	EPA 353.2	872253		
35760284002	GW-16	EPA 353.2	872254		
35760284003	GW-17	EPA 353.2	872254		
35760284004	GW-18	EPA 353.2	872254		
35760284005	GW-19	EPA 353.2	872309		
35760284006	GW-20	EPA 353.2	872609		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760284

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760284007	GW-21	EPA 353.2	872609		
35760284008	BGW-1	EPA 353.2	872253		
35760284009	GW-15 DUP	EPA 353.2	872253		

REPORT OF LABORATORY ANALYSIS

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WO#: 35760284



35760284

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out. The Chain-of-Custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/terms-and-conditions>. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/terms-and-conditions>.

Section A

Required Client Information:

Company: Manatee County Landfill
Address: 3333 Lena Road
Bradenton, FL 34211
Email: bob.bennett@mymanatee.org
Phone: (941) 748-5543
Requested Due Date: 11/16/2021

Report To: Bob Bennett
Copy To: [Blank]
Purchase Order #: [Blank]
Project Name: Lena Rd Landfill (Existing Wells)
Project#: 11/16/2021

Attention: [Blank]
Company Name: [Blank]
Address: [Blank]
Pace Project Manager: carmon.meynardi@pacelabs.com
Pace Profile #: 3100 Line 1

Regulatory Agency: [Blank]
State / Location: FL

Section B

Required Project Information:

Matrix: [Blank]
Code: [Blank]
Sample ID: [Blank]
One Character per box.
(A-Z, 0-9, /, -)
Sample IDs must be unique

Section C

Requested Analysis Filtered (Y/N)

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
			START	END								TEMP in °C	Received on
13	GW-15	WT	11/16/2021	0904	WT	H. DUBOIS PAC	11/16/2021	1701	DS PAC	11/16/2021	1819	Y	Y
14	GW-16	WT	11/16/2021	1009	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
15	GW-17	WT	11/16/2021	1101	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
16	GW-18	WT	11/16/2021	1202	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
17	GW-19	WT	11/16/2021	1307	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
18	GW-20	WT	11/16/2021	1411	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
19	GW-21	WT	11/16/2021	1504	WT	DS PAC	11/16/2021	1900	DS PAC	11/16/2021	1900	Y	Y
20	GW-22	WT			WT								
21	GW-23	WT			WT								
22	GW-24	WT			WT								
23	GW-25	WT			WT								
24	GW-26	WT			WT								

ADDITIONAL COMMENTS
FAC ID: 44795; LENA RD COUNTY LF
Field Data: Static Water Level Before Purge, Observation

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: [Blank]
SIGNATURE of SAMPLER: [Blank]

DATE SIGNED
11-16-22

TEMP in °C
[Blank]

Received on
[Blank]

Y/N
[Blank]

Sealed
[Blank]

Cooler
[Blank]

Samples
[Blank]

2 of 2

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. The Chain-of-Custody must be completed accurately. Submitting a sample to this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <http://info.pacelabs.com/flupits/pas-standard-terms.pdf>.

Page: 2 of 2

Section C

Required Client Information:		Required Project Information:	
Company:	Manatee County Landfill	Report To:	Bob Bennett
Address:	3333 Lena Road Bradenton, FL 34211	Copy To:	
Email:	bob.bennett@mymanatee.org	Purchase Order #:	
Phone:	(841) 748-5543	Project Name:	Lena Rd Landfill (Existing Wells)
Fax:		Project #:	8100 Line 1
Requested Due Date:		Pace Profile #:	

Section B

Invoice Information:		Attention:	
Company Name:		Company Name:	
Address:		Address:	
Pace Quote:		Pace Project Manager:	
Pace Project Manager:		cameron.meynarde@pacelabs.com	
Pace Profile #:		8100 Line 1	

Section A

Regulatory Agency:		State / Location:	
Regulatory Agency:		FL	

ITEM #	MATRIX	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)									
				START	END		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other												
25	GW-27R	WT	G	11/16/18	8:19	8	XXX								X											
26	BGW-1	WT	G	11/16/18	8:19	8	XXX								X											
27	GW-7 DUP	WT	G	11/16/18	8:19	8	XXX								X											
28	GW-15 DUP	WT	G	11/16/18	8:19	8	XXX								X											
29	GW-24 DUP	WT	G	11/16/18	8:19	8	XXX								X											
30	Equip Blank	WT	G	11/16/18	8:19	8	XXX								X											
31	MW-10A	WT	G	11/16/18	8:19	8	XXX								X											
32	Trip Blank 1	WT	G	11/16/18	8:19	8	XXX								X											
33	Trip Blank 2	WT	G	11/16/18	8:19	8	XXX								X											
34	Trip Blank 3	WT	G	11/16/18	8:19	8	XXX								X											
35	Trip Blank 4	WT	G	11/16/18	8:19	8	XXX								X											
36	Trip Blank 5	WT	G	11/16/18	8:19	8	XXX								X											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
FAC ID: 44795; LENA RD COUNTY LF Field Data: Static Water Level Before Purge. Observation	H. Bennett	11/16/18	17:01	DS pace	11/16/18	17:01	Y N Y
				DS/PACE	11/16/18	17:01	Y N Y

SAMPLER NAME AND SIGNATURE		SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER	PRINT Name of SAMPLER	DATE Collected	DATE Collected
SIGNATURE of SAMPLER	SIGNATURE of SAMPLER	11-16-22	11-16-22



Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO#: 35760284

PM: CEM Due Date: 12/05/22
CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used: T-399

Date: 11/16/22

Time: 2:33

Initials: C/P

State of Origin:

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 0.4 (Visual) 0.0 (Correction Factor) 0.8 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ 1.2 (Visual) (Correction Factor) 1.2 (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative:
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #:
		Date:
		Time:
		Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):



WO#: 35760284

PM: CEM Due Date: 12/05/22
CLIENT: MANCOU-SW

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T202

Date: 11-16-22 Time: 1701 Initials: DS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 8.7 (Visual) +0.2 (Correction Factor) 8.9 (Actual)

☒ Samples on ice, cooling process has begun

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☐ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☐ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☐ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☐ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☐ N/A	
Sufficient Volume	☐ Yes ☐ No ☐ N/A	
Correct Containers Used	☐ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA LANDFILL		SITE LOCATION: 3333 LENA RD. BAYVIEW	
WELL NO: GW-16	SAMPLE ID: GW-16	DATE: 11-16-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH (feet to feet):	19.65	STATIC DEPTH TO WATER (feet):	8.90	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)									
$= (19.65 \text{ feet} - 8.90 \text{ feet}) \times 5.16 \text{ gallons/foot} = 1.72 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)									
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	PURGING INITIATED AT:	0940	PURGING ENDED AT:	1008	TOTAL VOLUME PURGED (gallons):	2.80

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: HOBAS		SAMPLER(S) SIGNATURE(S): HOBAS		SAMPLING INITIATED AT: 1/3/9	SAMPLING ENDED AT: 1/10/9
PUMP OR TUBING DEPTH IN WELL (feet): 13'		TUBING MATERIAL CODE: HDSE/S		FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y ☒ N ☐		TUBING Y ☒ N ☐ (replaced)		DUPLICATE: Y ☐ N ☒	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0-1p	1	PE	1L	COOL	0	6.8	Cl NO3 TOX	AP8	< 300
↓	1	PE	250ml	HNO3	↓	< 2	METALS	↓	↓
	1	PE	250ml	H2SO4		< 2			
	1	PE	250ml	H2SO4		< 2			
	2	CG	40ml	COOL		6.8			
	3	CG	40ml	HCL		< 2			
							NH3		
							CO3 & DRP		
							8260		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA LANDFILL		SITE LOCATION: 3333 LENA RD, BARTON	
WELL NO: GW-17	SAMPLE ID: GW-17	DATE: 11-16-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	4	WELL SCREEN INTERVAL DEPTH (feet to feet):	5.00 - 20.30	STATIC DEPTH TO WATER (feet):	7.81	PURGE PUMP TYPE OR BAILER:	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)									
= 20.30 feet - 7.81 feet X 5.16 gallons/foot = 1.9984 gallons									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)									
= gallons + (gallons/foot X feet) + gallons = gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	12'	PURGING INITIATED AT:	1030	PURGING ENDED AT:	1100	TOTAL VOLUME PURGED (gallons):	3.00

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016									

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT NAME AND AFFILIATION): H. Bussles	SAMPLER(S) SIGNATURE(S): H. Bussles	SAMPLING INITIATED AT: 10/1	SAMPLING ENDED AT: 11/1
PUMP OR TUBING DEPTH IN WELL (feet): 12'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y ☒ N ☒ Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION:	PUMP Y ☒ N ☒	TUBING Y ☒ N (replaced) ☒	DUPLICATE: Y ☒ N ☒

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0-17	1	SE	1L	POOL	0	8.9	CLN3-TDS	APR	<300
↓	1	SE	250 mL	HA	↓	<2	METALS	↓	↓
	2	SE	250 mL	HA		<2	NH3		
	3	CG	40 mL	POOL		8.9	CD3-DBP		
	3	CG	40 mL	HA		<2	260		

REMARKS:

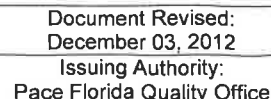
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)



Book Number:

Form FD 9000-24

PURGING DATA

[illegible]

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
05-19	1	PE	1L	COOL	0	6.8	CL, NO-TDO	APP	<300
↓	1	PE	250mL	HCL	↓	<2	METALS	↓	↓
↓	1	SE	250mL + 250mL	COOL	↓	<2	NH3	↓	↓
↓	2	CS	40mL	COOL	↓	6.8	E-28 # DBOR	↓	↓
↓	3	CS	40mL	HCL	↓	<2	8260	↓	↓

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Page 86 of 89
Book Number:

	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: MC LENA LANDFILL	SITE LOCATION: 3333 LENA RD, BRADENTON
WELL NO: 60-20	DATE: 11-16-22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8.5 feet to 25.5 feet	STATIC DEPTH TO WATER (feet): 9.15	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 23.50 feet - 9.15 feet X 0.16 gallons/foot = 2.296 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15'	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1358	2.20	2.20	0.13	9.55	6.64	26.2	2392.7	1.27	1.65	Tarvic none	
1424	0.60	2.80	0.13	9.55	6.64	26.2	2393.7	1.56	1.34		
1410	0.60	3.50	0.10	9.55	6.64	26.2	2393.7	1.32	2.34	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: H. W. ADAMS JR. / BGSU				SAMPLER(S) SIGNATURE(S): H. W. ADAMS JR.				SAMPLING INITIATED AT: 1411		SAMPLING ENDED AT: 1421	
PUMP OR TUBING DEPTH IN WELL (feet): 15'				TUBING MATERIAL CODE: HDPE/S		FIELD-FILTERED: Y ☒ N ☐			FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☒ N (replaced) ☐				DUPLICATE: Y ☒ N ☐							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
505-20	1	PE	1L	CO2	0	6.4	CLARIFIED	APP	<300		
↓	1	PE	250mL	HNO3	↓	<2	↓	↓	↓		
	1	PE	250mL	H2SO4	↓	<2	↓	↓	↓		
	2	CG	10mL	CO2	↓	6.6	↓	↓	↓		
	3	CG	40mL	HCL	↓	<2	↓	↓	↓		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M. L. LEMA LANDFILL		SITE LOCATION: 3333 LEMA RD. BRADENTON	
WELL NO: GW-21	SAMPLE ID: GW-21	DATE: 11-16-22	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 4	WELL SCREEN INTERVAL DEPTH (feet) 23.44	STATIC DEPTH TO WATER (feet) 12.51	PURGE PUMP TYPE OR BAILER: 88
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 23.44 feet - 12.51 feet X 0.16 gallons/foot = 1.7488 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16'	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1503	TOTAL VOLUME PURGED (gallons): 2.80

[illegible]

WELL CAPACITY (Gallons Per Foot):	0.75" = 0.02;	1" = 0.04;	1.25" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.65;	5" = 1.02;	6" = 1.47;	12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.):	1/8" = 0.0006;	3/16" = 0.0014;	1/4" = 0.0026;	5/16" = 0.004;	3/8" = 0.006;	1/2" = 0.010;	5/8" = 0.016		

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION H. S. S. S. S. S.				SAMPLER(S) SIGNATURE(S) H. S. S. S. S.			SAMPLING INITIATED AT: 1/5/04		SAMPLING ENDED AT: 1/5/04	
PUMP OR TUBING DEPTH IN WELL (feet): 16'				TUBING MATERIAL CODE: HDPE/S			FIELD-FILTERED: Y N N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION:							DUPLICATE:			
PUMP Y N				TUBING Y N (replaced)			Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
0-21	1	SE	1L	Cool		6.1	0.03-08	APP	<300	
	1	SE	250 mL	HNO3		6.3	METALS			
	1	SE	250 mL	#2804		6.3	NH3			
	2	CS	15 mL	Cool		6.1	EDB #DBCP			
	3	CS	10 mL	HCL		<2	8260			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: MC KENA LANDFILL		SITE LOCATION: 8333 KENA RD BRADENTON	
WELL NO: 26W-1	SAMPLE ID: 26W-1	DATE: 11-16-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	4	WELL SCREEN INTERVAL DEPTH:	48 feet to 48 feet	STATIC DEPTH TO WATER (feet):	8.85	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (19.50 \text{ feet} - 8.85 \text{ feet}) \times 0.10 \text{ gallons/foot} = 1.752 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	14'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	14'	PURGING INITIATED AT:	0250	PURGING ENDED AT:	0818	TOTAL VOLUME PURGED (gallons):	280

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>HOWARD BASSETT</u>				SAMPLER(S) / SIGNATURE(S): <u>H. BASSETT</u>			SAMPLING INITIATED AT: <u>0819</u>		SAMPLING ENDED AT: <u>0829</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>14'</u>				TUBING MATERIAL CODE: <u>HDPE/S</u>		FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:		FILTER SIZE: _____ μ m			
FIELD DECONTAMINATION: PUMP Y <u>N</u>				TUBING Y <u>N (replaced)</u>		DUPLICATE: Y <u>N</u>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>06W-1</u>	<u>1</u>	<u>SE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>6.9</u>	<u>CLINICAL</u>		<u>APP</u>	<u>< 300</u>	
<u>↓</u>	<u>1</u>	<u>SE</u>	<u>250 mL</u>	<u>HNO3</u>	<u>↓</u>	<u>< 2</u>	<u>METALS</u>		<u>↓</u>	<u>↓</u>	
<u>↓</u>	<u>1</u>	<u>SE</u>	<u>250 mL</u>	<u>H2SO4</u>	<u>↓</u>	<u>< 2</u>	<u>NH3</u>		<u>↓</u>	<u>↓</u>	
<u>↓</u>	<u>2</u>	<u>SE</u>	<u>400 mL</u>	<u>COOL</u>	<u>↓</u>	<u>6.9</u>	<u>WBS # 1000</u>		<u>↓</u>	<u>↓</u>	
<u>↓</u>	<u>3</u>	<u>CG</u>	<u>40 mL</u>	<u>HCL</u>	<u>↓</u>	<u>< 2</u>	<u>8260</u>		<u>↓</u>	<u>↓</u>	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

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December 13, 2022

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill SW
Pace Project No.: 35760628

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Tampa

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Tampa

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #:E84129

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35760628001	SW-1	Water	11/17/22 13:50	11/17/22 16:45
35760628002	SW-1 DUP	Water	11/17/22 13:50	11/17/22 16:45
35760628003	SW-2	Water	11/17/22 12:50	11/17/22 16:45
35760628004	Field Blank	Water	11/17/22 12:35	11/17/22 16:45
35760628005	Trip Blank 1	Water	11/17/22 00:01	11/17/22 16:45
35760628006	SW-1 LLHg Field Blank	Water	11/17/22 13:50	11/17/22 16:45
35760628007	SW-1 DUP LLHg Field Blank	Water	11/17/22 13:50	11/17/22 16:45
35760628008	SW-2 LLHg Field Blank	Water	11/17/22 12:50	11/17/22 16:45
35760628009	Field Blank LLHg Field Blank	Water	11/17/22 13:45	11/17/22 16:45

why are these
listed ?

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760628001	SW-1	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	13	PASI-O
		EPA 6020	BSL	6	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 9222D	SR1	1	PASI-Tp
		SM 2540C	ZAS	1	PASI-O
		SM 2540D	RAK	1	PASI-O
		SM 5210B	MCD	1	PASI-O
		SM10200	AGS	2	PASI-O
		TKN+NOx Calculation	AGS	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 351.2	CLL	1	PASI-O
		EPA 353.2	KW1	2	PASI-O
		EPA 365.4	CLL	1	PASI-O
		EPA 410.4	MMK	1	PASI-O
		SM 5310B	AGS	1	PASI-O
		FLDEP SOP 10/03/83	RMB	2	PASI-O
35760628002	SW-1 DUP	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	13	PASI-O
		EPA 6020	BSL	6	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 9222D	SR1	1	PASI-Tp
		SM 2540C	ZAS	1	PASI-O
		SM 2540D	RAK	1	PASI-O
		SM 5210B	MCD	1	PASI-O
		SM10200	AGS	2	PASI-O
		TKN+NOx Calculation	AGS	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 351.2	CLL	1	PASI-O
		EPA 353.2	KW1	2	PASI-O
		EPA 365.4	CLL	1	PASI-O
		EPA 410.4	MMK	1	PASI-O
		SM 5310B	AGS	1	PASI-O
35760628003	SW-2	FLDEP SOP 10/03/83	RMB	2	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	TMA	13	PASI-O
		EPA 6020	BSL	6	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760628004	Field Blank	EPA 8260	AST	48	PASI-O
		SM 9222D	SR1	1	PASI-Tp
		SM 2540C	ZAS	1	PASI-O
		SM 2540D	RAK	1	PASI-O
		SM 5210B	MCD	1	PASI-O
		SM10200	AGS	2	PASI-O
		TKN+NOx Calculation	AGS	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 351.2	CLL	1	PASI-O
		EPA 353.2	MRC	2	PASI-O
		EPA 365.4	CLL	1	PASI-O
		EPA 410.4	MMK	1	PASI-O
		SM 5310B	AGS	1	PASI-O
		FLDEP SOP 10/03/83	RMB	2	PASI-O
		EPA 8011	TSW	2	PASI-O
		EPA 6010	TMA	13	PASI-O
		EPA 6020	BSL	6	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 9222D	SR1	1	PASI-Tp
		SM 2540C	ZAS	1	PASI-O
		SM 2540D	RAK	1	PASI-O
		SM 5210B	MCD	1	PASI-O
		SM10200	AGS	2	PASI-O
		TKN+NOx Calculation	AGS	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 351.2	CLL	1	PASI-O
		EPA 353.2	MRC	2	PASI-O
		EPA 365.4	CLL	1	PASI-O
		EPA 410.4	MMK	1	PASI-O
		SM 5310B	AGS	1	PASI-O
		FLDEP SOP 10/03/83	RMB	2	PASI-O
35760628005	Trip Blank 1	EPA 8011	TSW	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

PASI-Tp = Pace Analytical Services - Tampa

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

5 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 874548

J(v1): The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 4813004)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- DUP (Lab ID: 4813006)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- Field Blank (Lab ID: 35760628004)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- LCS (Lab ID: 4813005)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- MS (Lab ID: 4813007)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- SW-1 (Lab ID: 35760628001)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- SW-1 DUP (Lab ID: 35760628002)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- SW-2 (Lab ID: 35760628003)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4813004)
 - Bromomethane
 - Chloromethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 874548

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- Iodomethane
- DUP (Lab ID: 4813006)
 - Bromomethane
 - Chloromethane
 - Iodomethane
- Field Blank (Lab ID: 35760628004)
 - Bromomethane
 - Chloromethane
 - Iodomethane
- SW-1 (Lab ID: 35760628001)
 - Bromomethane
 - Chloromethane
 - Iodomethane
- SW-1 DUP (Lab ID: 35760628002)
 - Bromomethane
 - Chloromethane
 - Iodomethane
- SW-2 (Lab ID: 35760628003)
 - Bromomethane
 - Chloromethane
 - Iodomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4813005)
 - Bromomethane
 - Chloromethane
 - Iodomethane
- MS (Lab ID: 4813007)
 - Bromomethane
 - Chloromethane
 - Iodomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 874548

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35761840006

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4813007)
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,4-Dichlorobenzene
 - Bromochloromethane
 - Bromodichloromethane
 - Carbon disulfide
 - Chloroform
 - Dibromomethane
 - Styrene
 - cis-1,3-Dichloropropene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Method: SM 9222D
Description: 9222D Fecal Coliform Tampa
Client: Manatee County Solid Waste
Date: December 13, 2022

General Information:

4 samples were analyzed for SM 9222D by Pace Analytical Services Tampa. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 9222D with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM 2540C by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM 2540D by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: SM 5210B

Description: 5210B BOD, 5 day

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM 5210B by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: SM10200

Description: Chlorophyll & Pheophytin

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM10200 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM10200 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: TKN+NO_x Calculation

Description: Total Nitrogen Calculation

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for TKN+NO_x Calculation by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 875261

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760327001,35760549004

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4815883)
- Nitrogen, Ammonia

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 351.2

Description: 351.2 Total Kjeldahl Nitrogen

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 351.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ unpres

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 872754

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35760637001, 35760794001

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4804343)
 - Nitrogen, NO₂ plus NO₃
- MSD (Lab ID: 4804342)
 - Nitrogen, NO₂ plus NO₃

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 365.4

Description: 365.4 Phosphorus, Total

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 365.4 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: EPA 410.4

Description: 410.4 COD

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 410.4 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 410.4 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: SM 5310B

Description: 5310B TOC

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM 5310B by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Method: FLDEP SOP 10/03/83

Description: Un-ionized Ammonia, Ammonium

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for FLDEP SOP 10/03/83 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 875975

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- Field Blank (Lab ID: 35760628004)
 - Nitrogen, Ammonium
- SW-1 (Lab ID: 35760628001)
 - Nitrogen, Ammonium
- SW-2 (Lab ID: 35760628003)
 - Nitrogen, Ammonium

QC Batch: 877464

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- SW-1 DUP (Lab ID: 35760628002)
 - Nitrogen, Ammonium

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-1		Lab ID: 35760628001		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	7.33	Std. Units			1		11/17/22 13:50		
Field Temperature	19.0	deg C			1		11/17/22 13:50		
Field Specific Conductance	456.1	umhos/cm			1		11/17/22 13:50		
Oxygen, Dissolved	6.00	mg/L			1		11/17/22 13:50	7782-44-7	
Turbidity	6.56	NTU			1		11/17/22 13:50		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	11/21/22 11:37	11/22/22 06:46	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/21/22 11:37	11/22/22 06:46	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	15.0	ug/L	10.0	0.84	1	11/18/22 08:24	11/23/22 16:15	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 08:24	11/23/22 16:15	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 08:24	11/23/22 16:15	7440-43-9	
Calcium	37.6	mg/L	0.50	0.19	1	11/18/22 08:24	11/23/22 16:15	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 08:24	11/23/22 16:15	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 08:24	11/23/22 16:15	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 08:24	11/23/22 16:15	7440-50-8	
Iron	908	ug/L	40.0	25.0	1	11/18/22 08:24	11/23/22 16:15	7439-89-6	
Magnesium	14.2	mg/L	0.50	0.084	1	11/18/22 08:24	11/23/22 16:15	7439-95-4	
Nickel	2.4 I	ug/L	5.0	1.0	1	11/18/22 08:24	11/23/22 16:15	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	152	mg/L	3.2	0.51	1	11/18/22 08:24	11/23/22 16:15		
Vanadium	1.2 I	ug/L	10.0	1.0	1	11/18/22 08:24	11/23/22 16:15	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 08:24	11/23/22 16:15	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:26	7440-36-0	
Arsenic	2.2	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:26	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 08:24	11/19/22 16:26	7439-92-1	
Selenium	0.20 I	ug/L	2.0	0.20	1	11/18/22 08:24	11/19/22 16:26	7782-49-2	
Silver	0.028 U	ug/L	0.50	0.028	1	11/18/22 08:24	11/19/22 16:26	7440-22-4	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 08:24	11/19/22 16:26	7440-28-0	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/26/22 23:54	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/26/22 23:54	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:54	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/26/22 23:54	74-97-5	
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/26/22 23:54	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/26/22 23:54	75-25-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: SW-1 **Lab ID: 35760628001** Collected: 11/17/22 13:50 Received: 11/17/22 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/26/22 23:54	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/26/22 23:54	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/26/22 23:54	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/26/22 23:54	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/26/22 23:54	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/26/22 23:54	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/26/22 23:54	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/26/22 23:54	74-87-3	J(v2)
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/26/22 23:54	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/26/22 23:54	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/26/22 23:54	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/26/22 23:54	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/26/22 23:54	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/26/22 23:54	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/26/22 23:54	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/26/22 23:54	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/26/22 23:54	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/26/22 23:54	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/26/22 23:54	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/26/22 23:54	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/26/22 23:54	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:54	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/26/22 23:54	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/26/22 23:54	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/26/22 23:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/26/22 23:54	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/26/22 23:54	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/26/22 23:54	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/26/22 23:54	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/26/22 23:54	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/26/22 23:54	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:54	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:54	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/26/22 23:54	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/26/22 23:54	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/26/22 23:54	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/26/22 23:54	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/26/22 23:54	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/26/22 23:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/26/22 23:54	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/26/22 23:54	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/26/22 23:54	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-1		Lab ID: 35760628001		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Tampa							
Fecal Coliforms	107	CFU/100 mL	1.0	1.0	1	11/17/22 16:53	11/18/22 15:05		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	286	mg/L	5.0	5.0	1		11/23/22 17:16		
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Ormond Beach							
Total Suspended Solids	1.2	mg/L	1.0	1.0	1		11/23/22 16:05		
5210B BOD, 5 day		Analytical Method: SM 5210B Pace Analytical Services - Ormond Beach							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/19/22 09:28	11/24/22 15:26		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200 Pace Analytical Services - Ormond Beach							
Chlorophyll a	1.0 U	ug/L	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Chlorophyll a (Corrected)	1.0 U	mg/m3	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.79	mg/L	0.50	0.20	1		12/02/22 09:59		
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.048 I	mg/L	0.050	0.035	1		11/30/22 20:48	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Kjeldahl, Total	0.75	mg/L	0.50	0.20	1	11/21/22 07:32	11/27/22 15:16	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.042 I	mg/L	0.050	0.015	1		11/18/22 15:43		
Nitrogen, Nitrate	0.042 I	mg/L	0.050	0.025	1		11/18/22 15:43	14797-55-8	
365.4 Phosphorus, Total		EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Ormond Beach							
Phosphorus, Total (as P)	0.19	mg/L	0.10	0.070	1	11/21/22 07:32	11/27/22 15:16	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Ormond Beach							
Chemical Oxygen Demand	50.0	mg/L	20.0	12.5	1	11/22/22 07:36	11/22/22 10:07		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: SW-1		Lab ID: 35760628001		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	28.4	mg/L	1.0	0.50	1		11/24/22 03:41	7440-44-0	
Un-ionized Ammonia, Ammonium									
Analytical Method: FLDEP SOP 10/03/83									
Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonium	0.048 I	mg/L	0.050	0.035	1		12/01/22 18:42	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		12/01/22 18:42		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-1 DUP		Lab ID: 35760628002		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0067 U	ug/L	0.021	0.0067	1	11/21/22 11:37	11/22/22 07:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0079 U	ug/L	0.010	0.0079	1	11/21/22 11:37	11/22/22 07:01	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Barium	15.0	ug/L	10.0	0.84	1	11/18/22 08:24	11/23/22 16:19	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 08:24	11/23/22 16:19	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 08:24	11/23/22 16:19	7440-43-9	
Calcium	38.6	mg/L	0.50	0.19	1	11/18/22 08:24	11/23/22 16:19	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 08:24	11/23/22 16:19	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 08:24	11/23/22 16:19	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 08:24	11/23/22 16:19	7440-50-8	
Iron	845	ug/L	40.0	25.0	1	11/18/22 08:24	11/23/22 16:19	7439-89-6	
Magnesium	14.6	mg/L	0.50	0.084	1	11/18/22 08:24	11/23/22 16:19	7439-95-4	
Nickel	2.2 I	ug/L	5.0	1.0	1	11/18/22 08:24	11/23/22 16:19	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	157	mg/L	3.2	0.51	1	11/18/22 08:24	11/23/22 16:19		
Vanadium	1.2 I	ug/L	10.0	1.0	1	11/18/22 08:24	11/23/22 16:19	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 08:24	11/23/22 16:19	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:37	7440-36-0	
Arsenic	2.2	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:37	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 08:24	11/19/22 16:37	7439-92-1	
Selenium	0.20 I	ug/L	2.0	0.20	1	11/18/22 08:24	11/19/22 16:37	7782-49-2	
Silver	0.028 U	ug/L	0.50	0.028	1	11/18/22 08:24	11/19/22 16:37	7440-22-4	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 08:24	11/19/22 16:37	7440-28-0	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/27/22 00:17	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/27/22 00:17	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/27/22 00:17	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/27/22 00:17	74-97-5	
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/27/22 00:17	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/27/22 00:17	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/27/22 00:17	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/27/22 00:17	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/27/22 00:17	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/27/22 00:17	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/27/22 00:17	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/27/22 00:17	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/27/22 00:17	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/27/22 00:17	74-87-3	J(v2)

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-1 DUP		Lab ID: 35760628002		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/27/22 00:17	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/27/22 00:17	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/27/22 00:17	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/27/22 00:17	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/27/22 00:17	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/27/22 00:17	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/27/22 00:17	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/27/22 00:17	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/27/22 00:17	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/27/22 00:17	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/27/22 00:17	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/27/22 00:17	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/27/22 00:17	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/27/22 00:17	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/27/22 00:17	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/27/22 00:17	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/27/22 00:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/27/22 00:17	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/27/22 00:17	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/27/22 00:17	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/27/22 00:17	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/27/22 00:17	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/27/22 00:17	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/27/22 00:17	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/27/22 00:17	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/27/22 00:17	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/27/22 00:17	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/27/22 00:17	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/27/22 00:17	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/27/22 00:17	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/27/22 00:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/27/22 00:17	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/27/22 00:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/27/22 00:17	2199-69-1	
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Tampa							
Fecal Coliforms	99.0	CFU/100 mL	1.0	1.0	1	11/17/22 16:53	11/18/22 15:05		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	282	mg/L	5.0	5.0	1		11/23/22 17:16		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-1 DUP		Lab ID: 35760628002		Collected: 11/17/22 13:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Ormond Beach							
Total Suspended Solids	1.2	mg/L	1.0	1.0	1		11/23/22 16:05		
5210B BOD, 5 day		Analytical Method: SM 5210B Pace Analytical Services - Ormond Beach							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/19/22 09:30	11/24/22 15:29		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200 Pace Analytical Services - Ormond Beach							
Chlorophyll a	1.0 U	ug/L	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Chlorophyll a (Corrected)	1.0 U	mg/m3	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.81	mg/L	0.50	0.20	1		12/02/22 09:59		
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.039 I	mg/L	0.050	0.035	1		11/30/22 20:54	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Kjeldahl, Total	0.77	mg/L	0.50	0.20	1	11/21/22 07:32	11/27/22 15:17	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.042 I	mg/L	0.050	0.015	1		11/18/22 15:44		
Nitrogen, Nitrate	0.042 I	mg/L	0.050	0.025	1		11/18/22 15:44	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Ormond Beach							
Phosphorus, Total (as P)	0.19	mg/L	0.10	0.070	1	11/21/22 07:32	11/27/22 15:17	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Ormond Beach							
Chemical Oxygen Demand	52.6	mg/L	20.0	12.5	1	11/22/22 07:36	11/22/22 10:07		
5310B TOC		Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach							
Total Organic Carbon	28.8	mg/L	1.0	0.50	1		11/24/22 04:24	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonium	0.039 I	mg/L	0.050	0.035	1		12/07/22 13:28	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		12/07/22 13:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-2		Lab ID: 35760628003		Collected: 11/17/22 12:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.56	Std. Units			1		11/17/22 12:50		
Field Temperature	20.0	deg C			1		11/17/22 12:50		
Field Specific Conductance	761	umhos/cm			1		11/17/22 12:50		
Oxygen, Dissolved	2.93	mg/L			1		11/17/22 12:50	7782-44-7	
Turbidity	49.5	NTU			1		11/17/22 12:50		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/26/22 18:03	11/28/22 20:08	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/26/22 18:03	11/28/22 20:08	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	41.8	ug/L	10.0	0.84	1	11/18/22 08:24	11/23/22 16:23	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 08:24	11/23/22 16:23	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 08:24	11/23/22 16:23	7440-43-9	
Calcium	67.5	mg/L	0.50	0.19	1	11/18/22 08:24	11/23/22 16:23	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 08:24	11/23/22 16:23	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 08:24	11/23/22 16:23	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 08:24	11/23/22 16:23	7440-50-8	
Iron	8310	ug/L	40.0	25.0	1	11/18/22 08:24	11/23/22 16:23	7439-89-6	
Magnesium	21.9	mg/L	0.50	0.084	1	11/18/22 08:24	11/23/22 16:23	7439-95-4	
Nickel	2.9 I	ug/L	5.0	1.0	1	11/18/22 08:24	11/23/22 16:23	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	259	mg/L	3.2	0.51	1	11/18/22 08:24	11/23/22 16:23		
Vanadium	2.4 I	ug/L	10.0	1.0	1	11/18/22 08:24	11/23/22 16:23	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 08:24	11/23/22 16:23	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:39	7440-36-0	
Arsenic	139	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:39	7440-38-2	
Lead	0.34 I	ug/L	1.0	0.22	1	11/18/22 08:24	11/19/22 16:39	7439-92-1	
Selenium	0.25 I	ug/L	2.0	0.20	1	11/18/22 08:24	11/19/22 16:39	7782-49-2	
Silver	0.028 U	ug/L	0.50	0.028	1	11/18/22 08:24	11/19/22 16:39	7440-22-4	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 08:24	11/19/22 16:39	7440-28-0	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/26/22 23:31	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/26/22 23:31	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:31	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/26/22 23:31	74-97-5	
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/26/22 23:31	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/26/22 23:31	75-25-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-2		Lab ID: 35760628003		Collected: 11/17/22 12:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/26/22 23:31	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/26/22 23:31	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/26/22 23:31	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/26/22 23:31	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/26/22 23:31	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/26/22 23:31	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/26/22 23:31	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/26/22 23:31	74-87-3	J(v2)
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/26/22 23:31	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/26/22 23:31	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/26/22 23:31	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/26/22 23:31	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/26/22 23:31	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/26/22 23:31	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/26/22 23:31	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/26/22 23:31	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/26/22 23:31	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/26/22 23:31	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/26/22 23:31	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/26/22 23:31	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/26/22 23:31	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:31	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/26/22 23:31	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/26/22 23:31	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/26/22 23:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/26/22 23:31	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/26/22 23:31	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/26/22 23:31	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/26/22 23:31	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/26/22 23:31	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/26/22 23:31	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:31	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 23:31	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/26/22 23:31	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/26/22 23:31	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/26/22 23:31	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/26/22 23:31	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/26/22 23:31	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/26/22 23:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/26/22 23:31	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/26/22 23:31	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/26/22 23:31	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: SW-2		Lab ID: 35760628003		Collected: 11/17/22 12:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform Tampa									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Tampa									
Fecal Coliforms	82.0	CFU/100 mL	1.0	1.0	1	11/17/22 16:53	11/18/22 15:05		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	493	mg/L	5.0	5.0	1		11/23/22 17:16		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - Ormond Beach									
Total Suspended Solids	12.0	mg/L	1.0	1.0	1		11/23/22 16:05		
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - Ormond Beach									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/19/22 09:22	11/24/22 15:20		
Chlorophyll & Pheophytin									
Analytical Method: SM10200 Preparation Method: SM10200 Pace Analytical Services - Ormond Beach									
Chlorophyll a	2.5 I	ug/L	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Chlorophyll a (Corrected)	2.4 I	mg/m3	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Total Nitrogen Calculation									
Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach									
Total Nitrogen	0.96	mg/L	0.50	0.20	1		12/02/22 09:59		
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.085	mg/L	0.050	0.035	1		11/30/22 20:56	7664-41-7	
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Kjeldahl, Total	0.94	mg/L	0.50	0.20	1	11/21/22 07:32	11/27/22 15:18	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.016 I	mg/L	0.050	0.015	1		11/18/22 12:04		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/18/22 12:04	14797-55-8	
365.4 Phosphorus, Total									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Ormond Beach									
Phosphorus, Total (as P) Not on COC			0.10	0.070	1	11/21/22 07:32	11/27/22 15:18	7723-14-0	
410.4 COD									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Ormond Beach									
Chemical Oxygen Demand	70.3	mg/L	20.0	12.5	1	11/22/22 07:36	11/22/22 10:07		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: SW-2		Lab ID: 35760628003		Collected: 11/17/22 12:50		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	37.5	mg/L	1.0	0.50	1		11/24/22 04:37	7440-44-0	
Un-ionized Ammonia, Ammonium									
Analytical Method: FLDEP SOP 10/03/83									
Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonium	0.085	mg/L	0.050	0.035	1		12/01/22 18:42	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		12/01/22 18:42		

← Not on COC

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: Field Blank		Lab ID: 35760628004		Collected: 11/17/22 12:35		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/26/22 18:03	11/28/22 20:21	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/26/22 18:03	11/28/22 20:21	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Barium	0.84 U	ug/L	10.0	0.84	1	11/18/22 08:24	11/23/22 16:26	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/18/22 08:24	11/23/22 16:26	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/18/22 08:24	11/23/22 16:26	7440-43-9	
Calcium	0.19 U	mg/L	0.50	0.19	1	11/18/22 08:24	11/23/22 16:26	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/18/22 08:24	11/23/22 16:26	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/18/22 08:24	11/23/22 16:26	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/18/22 08:24	11/23/22 16:26	7440-50-8	
Iron	25.0 U	ug/L	40.0	25.0	1	11/18/22 08:24	11/23/22 16:26	7439-89-6	
Magnesium	0.084 U	mg/L	0.50	0.084	1	11/18/22 08:24	11/23/22 16:26	7439-95-4	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/18/22 08:24	11/23/22 16:26	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	0.51 U	mg/L	3.2	0.51	1	11/18/22 08:24	11/23/22 16:26		
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/18/22 08:24	11/23/22 16:26	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/18/22 08:24	11/23/22 16:26	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:47	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	11/18/22 08:24	11/19/22 16:47	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/18/22 08:24	11/19/22 16:47	7439-92-1	
Selenium	0.20 U	ug/L	2.0	0.20	1	11/18/22 08:24	11/19/22 16:47	7782-49-2	
Silver	0.028 U	ug/L	0.50	0.028	1	11/18/22 08:24	11/19/22 16:47	7440-22-4	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/18/22 08:24	11/19/22 16:47	7440-28-0	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/26/22 21:35	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/26/22 21:35	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 21:35	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/26/22 21:35	74-97-5	
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/26/22 21:35	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/26/22 21:35	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/26/22 21:35	74-83-9	J(v2)
2-Butanone (MEK)	17.2 I	ug/L	50.0	6.7	1		11/26/22 21:35	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/26/22 21:35	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/26/22 21:35	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/26/22 21:35	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/26/22 21:35	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/26/22 21:35	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/26/22 21:35	74-87-3	J(v2)

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: Field Blank		Lab ID: 35760628004		Collected: 11/17/22 12:35		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/26/22 21:35	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/26/22 21:35	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/26/22 21:35	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/26/22 21:35	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/26/22 21:35	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/26/22 21:35	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/26/22 21:35	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/26/22 21:35	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/26/22 21:35	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/26/22 21:35	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/26/22 21:35	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/26/22 21:35	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/26/22 21:35	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/26/22 21:35	100-41-4	
2-Hexanone	4.1 I	ug/L	25.0	3.2	1		11/26/22 21:35	591-78-6	J(v1)
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/26/22 21:35	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/26/22 21:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/26/22 21:35	108-10-1	J(v1)
Styrene	0.26 U	ug/L	1.0	0.26	1		11/26/22 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/26/22 21:35	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/26/22 21:35	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/26/22 21:35	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/26/22 21:35	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 21:35	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/26/22 21:35	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/26/22 21:35	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/26/22 21:35	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/26/22 21:35	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/26/22 21:35	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/26/22 21:35	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/26/22 21:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/26/22 21:35	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/26/22 21:35	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/26/22 21:35	2199-69-1	
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Tampa							
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	11/17/22 16:53	11/18/22 15:05		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1		11/23/22 17:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

Sample: Field Blank		Lab ID: 35760628004		Collected: 11/17/22 12:35		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Ormond Beach							
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1		11/23/22 16:05		
5210B BOD, 5 day		Analytical Method: SM 5210B Pace Analytical Services - Ormond Beach							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/19/22 09:18	11/24/22 15:17		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200 Pace Analytical Services - Ormond Beach							
Chlorophyll a	1.0 U	ug/L	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Chlorophyll a (Corrected)	1.0 U	mg/m3	5.0	1.0	1	11/18/22 09:50	11/29/22 14:31		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.20 U	mg/L	0.50	0.20	1		12/02/22 09:59		
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/30/22 21:02	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Kjeldahl, Total	0.20 U	mg/L	0.50	0.20	1	11/21/22 07:32	11/27/22 15:19	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		11/18/22 12:01		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/18/22 12:01	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Ormond Beach							
Phosphorus, Total (as P)	0.070 U	mg/L	0.10	0.070	1	11/21/22 07:32	11/27/22 15:19	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Ormond Beach							
Chemical Oxygen Demand	12.5 U	mg/L	20.0	12.5	1	11/22/22 07:36	11/22/22 10:07		
5310B TOC		Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach							
Total Organic Carbon	0.94 I	mg/L	1.0	0.50	1		11/24/22 04:49	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonium	0.035 U	mg/L	0.050	0.035	1		12/01/22 18:42	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		12/01/22 18:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Sample: Trip Blank 1		Lab ID: 35760628005	Collected: 11/17/22 00:01	Received: 11/17/22 16:45	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/26/22 18:03	11/28/22 20:34	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.0099	0.0075	1	11/26/22 18:03	11/28/22 20:34	106-93-4	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch:	872735	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4804275 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/23/22 15:41	
Beryllium	ug/L	0.17 U	4.0	0.17	11/23/22 15:41	
Cadmium	ug/L	0.33 U	1.0	0.33	11/23/22 15:41	
Calcium	mg/L	0.19 U	0.50	0.19	11/23/22 15:41	
Chromium	ug/L	1.7 U	5.0	1.7	11/23/22 15:41	
Cobalt	ug/L	0.96 U	10.0	0.96	11/23/22 15:41	
Copper	ug/L	2.6 U	5.0	2.6	11/23/22 15:41	
Iron	ug/L	25.0 U	40.0	25.0	11/23/22 15:41	
Magnesium	mg/L	0.084 U	0.50	0.084	11/23/22 15:41	
Nickel	ug/L	1.0 U	5.0	1.0	11/23/22 15:41	
Tot Hardness asCaCO3 (SM 2340B	mg/L	0.51 U	3.2	0.51	11/23/22 15:41	
Vanadium	ug/L	1.0 U	10.0	1.0	11/23/22 15:41	
Zinc	ug/L	11.0 U	20.0	11.0	11/23/22 15:41	

LABORATORY CONTROL SAMPLE: 4804276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	246	98	80-120	
Beryllium	ug/L	25	22.0	88	80-120	
Cadmium	ug/L	25	23.2	93	80-120	
Calcium	mg/L	12.5	12.4	100	80-120	
Chromium	ug/L	250	232	93	80-120	
Cobalt	ug/L	250	230	92	80-120	
Copper	ug/L	250	221	88	80-120	
Iron	ug/L	2500	2460	98	80-120	
Magnesium	mg/L	12.5	12.2	98	80-120	
Nickel	ug/L	250	231	92	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	81.4	99	80-120	
Vanadium	ug/L	250	226	90	80-120	
Zinc	ug/L	1250	1130	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804277 4804278

Parameter	Units	35760481008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	4.6 I	250	250	250	252	98	99	75-125	1	20	
Beryllium	ug/L	0.17 U	25	25	22.9	24.0	92	96	75-125	5	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804277 4804278											
Parameter	Units	35760481008		MS	MSD	MS		MS	MSD	% Rec Limits	Max RPD
		Result	U	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec		
Cadmium	ug/L	0.33	U	25	25	24.1	25.2	96	101	75-125	5 20
Calcium	mg/L	7410	ug/L	12.5	12.5	19.8	19.9	99	100	75-125	1 20
Chromium	ug/L	1.7	U	250	250	238	251	95	100	75-125	5 20
Cobalt	ug/L	0.96	U	250	250	241	252	96	101	75-125	5 20
Copper	ug/L	2.6	U	250	250	231	243	93	97	75-125	5 20
Iron	ug/L	25.0	U	2500	2500	2500	2520	99	100	75-125	1 20
Magnesium	mg/L	625	ug/L	12.5	12.5	12.8	12.9	97	98	75-125	1 20
Nickel	ug/L	1.0	U	250	250	239	251	95	100	75-125	5 20
Tot Hardness asCaCO3 (SM 2340B	mg/L	21100	ug/L	82.7	82.7	102	103	98	99	75-125	1 20
Vanadium	ug/L	1.0	U	250	250	234	246	94	98	75-125	5 20
Zinc	ug/L	11.0	U	1250	1250	1190	1250	95	100	75-125	5 20

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 872734

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4804271

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/19/22 16:19	
Arsenic	ug/L	0.50 U	1.0	0.50	11/19/22 16:19	
Lead	ug/L	0.22 U	1.0	0.22	11/19/22 16:19	
Selenium	ug/L	0.20 U	2.0	0.20	11/19/22 16:19	
Silver	ug/L	0.028 U	0.50	0.028	11/19/22 16:19	
Thallium	ug/L	0.11 U	1.0	0.11	11/19/22 16:19	

LABORATORY CONTROL SAMPLE: 4804272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.8	102	80-120	
Arsenic	ug/L	50	52.6	105	80-120	
Lead	ug/L	50	52.7	105	80-120	
Selenium	ug/L	50	51.2	102	80-120	
Silver	ug/L	5	5.5	110	80-120	
Thallium	ug/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804273 4804274

Parameter	Units	35760628001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.2	51.2	100	102	75-125	2	20	
Arsenic	ug/L	2.2	50	50	54.6	54.0	105	104	75-125	1	20	
Lead	ug/L	0.22 U	50	50	50.9	51.4	102	103	75-125	1	20	
Selenium	ug/L	0.20 I	50	50	50.7	50.4	101	100	75-125	1	20	
Silver	ug/L	0.028 U	5	5	5.2	5.2	103	105	75-125	1	20	
Thallium	ug/L	0.11 U	50	50	50.6	50.4	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch: 874548 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4813004 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/26/22 20:01	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/26/22 20:01	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/26/22 20:01	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/26/22 20:01	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/26/22 20:01	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/26/22 20:01	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/26/22 20:01	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/26/22 20:01	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/26/22 20:01	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/26/22 20:01	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/26/22 20:01	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/26/22 20:01	
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/26/22 20:01	J(v1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/26/22 20:01	J(v1)
Acetone	ug/L	8.7 U	25.0	8.7	11/26/22 20:01	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/26/22 20:01	
Benzene	ug/L	0.30 U	1.0	0.30	11/26/22 20:01	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/26/22 20:01	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/26/22 20:01	
Bromoform	ug/L	0.48 U	3.0	0.48	11/26/22 20:01	
Bromomethane	ug/L	3.9 U	10.0	3.9	11/26/22 20:01	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/26/22 20:01	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/26/22 20:01	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/26/22 20:01	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/26/22 20:01	
Chloroform	ug/L	0.56 U	1.0	0.56	11/26/22 20:01	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/26/22 20:01	J(v2)
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/26/22 20:01	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/26/22 20:01	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/26/22 20:01	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/26/22 20:01	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/26/22 20:01	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/26/22 20:01	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/26/22 20:01	
Styrene	ug/L	0.26 U	1.0	0.26	11/26/22 20:01	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/26/22 20:01	
Toluene	ug/L	0.33 U	1.0	0.33	11/26/22 20:01	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/26/22 20:01	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/26/22 20:01	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/26/22 20:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

METHOD BLANK: 4813004

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/26/22 20:01	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/26/22 20:01	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/26/22 20:01	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/26/22 20:01	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/26/22 20:01	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130		11/26/22 20:01	
4-Bromofluorobenzene (S)	%	94	70-130		11/26/22 20:01	
Toluene-d8 (S)	%	98	70-130		11/26/22 20:01	

LABORATORY CONTROL SAMPLE: 4813005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.3	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.7	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	68-125	
1,1,2-Trichloroethane	ug/L	20	17.9	90	70-130	
1,1-Dichloroethane	ug/L	20	19.5	98	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	66-133	
1,2,3-Trichloropropane	ug/L	20	19.9	99	62-127	
1,2-Dichlorobenzene	ug/L	20	18.1	90	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	100	97.5	98	47-143	
2-Hexanone	ug/L	100	125	125	48-145 J(v1)	
4-Methyl-2-pentanone (MIBK)	ug/L	100	131	131	57-132 J(v1)	
Acetone	ug/L	100	83.5	84	46-148	
Acrylonitrile	ug/L	100	100	100	60-143	
Benzene	ug/L	20	19.7	98	70-130	
Bromochloromethane	ug/L	20	16.2	81	70-130	
Bromodichloromethane	ug/L	20	17.5	88	70-130	
Bromoform	ug/L	20	16.4	82	49-126	
Bromomethane	ug/L	20	5.0 I	25	10-165 J(v3)	
Carbon disulfide	ug/L	20	19.8	99	60-141	
Carbon tetrachloride	ug/L	20	17.7	89	63-126	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	19.1	95	71-142	
Chloroform	ug/L	20	17.4	87	70-130	
Chloromethane	ug/L	20	15.9	80	40-140 J(v3)	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	18.0	90	62-118	
Dibromomethane	ug/L	20	17.1	86	70-130	
Ethylbenzene	ug/L	20	19.5	98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

LABORATORY CONTROL SAMPLE: 4813005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	3.6 U	16	10-164	J(v3)
Methylene Chloride	ug/L	20	19.0	95	65-136	
Styrene	ug/L	20	19.8	99	70-130	
Tetrachloroethene	ug/L	20	17.8	89	64-134	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.1	86	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	21.8	109	42-129	
Trichloroethene	ug/L	20	18.0	90	70-130	
Trichlorofluoromethane	ug/L	20	15.9	80	65-135	
Vinyl acetate	ug/L	20	21.1	105	60-144	
Vinyl chloride	ug/L	20	16.9	84	68-131	
Xylene (Total)	ug/L	60	57.7	96	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 4813007

Parameter	Units	35761840006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	14.1	70	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	14.1	70	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	16.4	82	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	14.7	73	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	14.7	74	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	13.7	68	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	17.7	89	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	13.1	66	70-130 J(M1)	
1,2-Dichloroethane	ug/L	0.27 U	20	13.8	69	70-130 J(M1)	
1,2-Dichloropropane	ug/L	0.23 U	20	14.6	73	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	13.2	66	70-130 J(M1)	
2-Butanone (MEK)	ug/L	6.7 U	100	69.5	69	47-143	
2-Hexanone	ug/L	3.2 U	100	91.1	91	48-145 J(v1)	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	96.8	97	57-132 J(v1)	
Acetone	ug/L	8.7 U	100	46.4	46	46-148	
Acrylonitrile	ug/L	3.7 U	100	79.0	79	60-143	
Benzene	ug/L	0.30 U	20	14.7	74	70-130	
Bromochloromethane	ug/L	0.37 U	20	13.6	68	70-130 J(M1)	
Bromodichloromethane	ug/L	0.19 U	20	13.2	66	70-130 J(M1)	
Bromoform	ug/L	0.48 U	20	11.8	59	49-126	
Bromomethane	ug/L	3.9 U	20	5.5 I	28	10-165 J(v3)	
Carbon disulfide	ug/L	1.8 U	20	11.0	55	60-141 J(M1)	
Carbon tetrachloride	ug/L	0.44 U	20	13.1	65	63-126	
Chlorobenzene	ug/L	0.35 U	20	14.1	71	70-130	
Chloroethane	ug/L	3.7 U	20	16.2	81	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

MATRIX SPIKE SAMPLE: 4813007		35761840006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	12.3	62	70-130	J(M1)
Chloromethane	ug/L	0.43 U	20	13.4	67	40-140	J(v3)
cis-1,2-Dichloroethene	ug/L	0.27 U	20	14.2	71	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	13.2	66	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	13.3	66	62-118	
Dibromomethane	ug/L	0.68 U	20	12.4	62	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	14.2	71	70-130	
Iodomethane	ug/L	3.6 U	20	5.6 I	28	10-164	J(v3)
Methylene Chloride	ug/L	1.7 U	20	14.0	70	65-136	
Styrene	ug/L	0.26 U	20	13.7	68	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	13.4	67	64-134	
Toluene	ug/L	0.33 U	20	14.5	73	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	13.9	70	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	13.8	69	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	14.7	73	42-129	
Trichloroethene	ug/L	0.36 U	20	14.4	72	70-130	
Trichlorofluoromethane	ug/L	0.72 U	20	15.9	80	65-135	
Vinyl acetate	ug/L	1.8 U	20	15.9	80	60-144	
Vinyl chloride	ug/L	0.39 U	20	14.7	73	68-131	
Xylene (Total)	ug/L	2.1 U	60	41.7	70	70-130	MS
1,2-Dichlorobenzene-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				92	70-130	
Toluene-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 4813006

Parameter	Units	35761840005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	J(v1)
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	J(v1)
Acetone	ug/L	8.7 U	8.7 U		40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

SAMPLE DUPLICATE: 4813006

Parameter	Units	35761840005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	J(v2)
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	102	100		40	
4-Bromofluorobenzene (S)	%	95	93		40	
Toluene-d8 (S)	%	99	99		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 873222

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: 8011 EDB DBCP

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002

METHOD BLANK: 4806908

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/22/22 03:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/22/22 03:33	

LABORATORY CONTROL SAMPLE: 4806909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	100	60-140	

MATRIX SPIKE SAMPLE: 4806910

Parameter	Units	35760284003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0067 U	0.25	0.22	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0078 U	0.25	0.23	89	60-140	

SAMPLE DUPLICATE: 4806911

Parameter	Units	35760284004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	0.0063 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	0.0074 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch:	874500	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628003, 35760628004, 35760628005

METHOD BLANK: 4812921 Matrix: Water
Associated Lab Samples: 35760628003, 35760628004, 35760628005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/28/22 17:18	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/28/22 17:18	

LABORATORY CONTROL SAMPLE: 4812922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.24	96	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	100	60-140	

MATRIX SPIKE SAMPLE: 4812923

Parameter	Units	35761424001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	0.24	0.22	92	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	0.24	0.22	92	60-140	

SAMPLE DUPLICATE: 4812924

Parameter	Units	35761424002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	0.0063 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	0.0074 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 872943

Analysis Method: SM 9222D

QC Batch Method: SM 9222D

Analysis Description: 9222D MBIO Fecal Coliform Tampa

Laboratory: Pace Analytical Services - Tampa

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4805242

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	1.0 U	1.0	1.0	11/18/22 15:05	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 874224

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4811846

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/23/22 17:16	

LABORATORY CONTROL SAMPLE: 4811847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	90-110	

SAMPLE DUPLICATE: 4811848

Parameter	Units	35760628001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	286	277	3	10	

SAMPLE DUPLICATE: 4811849

Parameter	Units	35760784004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4520	4580	1	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch:	874170	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4811496 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	1.0 U	1.0	1.0	11/23/22 16:05	

LABORATORY CONTROL SAMPLE & LCSD: 4811497		4811503								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	100	90.0	91.0	90	91	90-110	1	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 873031

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4805774

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	11/24/22 14:55	

LABORATORY CONTROL SAMPLE: 4805776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	170	86	85-115	

SAMPLE DUPLICATE: 4805777

Parameter	Units	35760628003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch:	872749	Analysis Method:	SM10200
QC Batch Method:	SM10200	Analysis Description:	Chlorophyll & Pheophytin
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4804332 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	ug/L	1.0 U	5.0	1.0	11/29/22 14:31	
Chlorophyll a (Corrected)	mg/m3	1.0 U	5.0	1.0	11/29/22 14:31	

LABORATORY CONTROL SAMPLE: 4804333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	ug/L	10	9.3	93	85-115	

SAMPLE DUPLICATE: 4804334

Parameter	Units	35760794001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	ug/L	14.1 mg/m3	13.1	7	40	
Chlorophyll a (Corrected)	mg/m3	9.2	7.4	21	40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch:	875261	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003

METHOD BLANK: 4815880 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/30/22 17:09	

LABORATORY CONTROL SAMPLE: 4815881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815883 4815882

Parameter	Units	35760327001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	7.7	1	1	8.6	8.7	87	100	90-110	2	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815884 4815885

Parameter	Units	35760549004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.082	1	1	1.1	1.1	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch:	875262	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628004

METHOD BLANK: 4815886 Matrix: Water

Associated Lab Samples: 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/30/22 20:58	

LABORATORY CONTROL SAMPLE: 4815887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815889 4815888

Parameter	Units	35760637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.6	1	1	2.6	2.6	100	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815890 4815891

Parameter	Units	35760703002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.99	1	1	2.0	2.0	102	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35760628

QC Batch:	873204	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4806841 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.20 U	0.50	0.20	11/27/22 14:54	

LABORATORY CONTROL SAMPLE: 4806842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	19.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806844 4806843

Parameter	Units	35760778002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.59	20	20	20.2	20.2	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806846 4806845

Parameter	Units	35760769003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.9	20	20	21.7	21.8	99	100	90-110	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 872754

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628003, 35760628004

METHOD BLANK: 4804340

Matrix: Water

Associated Lab Samples: 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/18/22 10:40	
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	11/18/22 10:40	

LABORATORY CONTROL SAMPLE: 4804341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804343 4804342

Parameter	Units	35760637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.7	1.7	85	86	90-110	0	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804350 4804349

Parameter	Units	35760794001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.048 I	2	2	2.1	2.1	103	103	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch:	872890	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002

METHOD BLANK: 4804944 Matrix: Water

Associated Lab Samples: 35760628001, 35760628002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/18/22 15:12	
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	11/18/22 15:12	

LABORATORY CONTROL SAMPLE: 4804945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804947 4804946

Parameter	Units	35760807001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.015	2	2	2.1	2.1	104	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4804949 4804948

Parameter	Units	35760807005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.015	2	2	1.8	2.1	92	104	90-110	12	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch:	873205	Analysis Method:	EPA 365.4
QC Batch Method:	EPA 365.4	Analysis Description:	365.4 Phosphorus
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4806847 Matrix: Water
Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.070 U	0.10	0.070	11/27/22 15:28	

LABORATORY CONTROL SAMPLE: 4806848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806850 4806849

Parameter	Units	35760778002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus, Total (as P)	mg/L	0.070 U	4	4	4.1	4.1	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806852 4806851

Parameter	Units	35760769003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus, Total (as P)	mg/L	1.6	4	4	5.8	5.8	106	105	80-120	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch:	873609	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4808679 Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	11/22/22 10:07	

LABORATORY CONTROL SAMPLE: 4808680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	511	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4808717 4808716

Parameter	Units	35760743005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	384	500	500	862	862	96	95	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4808719 4808718

Parameter	Units	35760743006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	55.7	500	500	565	565	102	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35760628

QC Batch: 873994

Analysis Method: SM 5310B

QC Batch Method: SM 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

METHOD BLANK: 4810896

Matrix: Water

Associated Lab Samples: 35760628001, 35760628002, 35760628003, 35760628004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	11/23/22 23:40	

LABORATORY CONTROL SAMPLE: 4810897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4810898 4810899

Parameter	Units	35761442003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	51.6	20	20	68.9	68.7	87	85	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4810900 4810901

Parameter	Units	35760628001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	28.4	20	20	46.5	46.5	91	91	80-120	0	20	

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QUALIFIERS

Project: Lena Road Landfill SW
Pace Project No.: 35760628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760628001	SW-1				
35760628003	SW-2				
35760628001	SW-1	EPA 8011	873222	EPA 8011	873527
35760628002	SW-1 DUP	EPA 8011	873222	EPA 8011	873527
35760628003	SW-2	EPA 8011	874500	EPA 8011	874583
35760628004	Field Blank	EPA 8011	874500	EPA 8011	874583
35760628005	Trip Blank 1	EPA 8011	874500	EPA 8011	874583
35760628001	SW-1	EPA 3010	872735	EPA 6010	872837
35760628002	SW-1 DUP	EPA 3010	872735	EPA 6010	872837
35760628003	SW-2	EPA 3010	872735	EPA 6010	872837
35760628004	Field Blank	EPA 3010	872735	EPA 6010	872837
35760628001	SW-1	EPA 3010	872734	EPA 6020	872836
35760628002	SW-1 DUP	EPA 3010	872734	EPA 6020	872836
35760628003	SW-2	EPA 3010	872734	EPA 6020	872836
35760628004	Field Blank	EPA 3010	872734	EPA 6020	872836
35760628001	SW-1	EPA 8260	874548		
35760628002	SW-1 DUP	EPA 8260	874548		
35760628003	SW-2	EPA 8260	874548		
35760628004	Field Blank	EPA 8260	874548		
35760628001	SW-1	SM 9222D	872943	SM 9222D	872944
35760628002	SW-1 DUP	SM 9222D	872943	SM 9222D	872944
35760628003	SW-2	SM 9222D	872943	SM 9222D	872944
35760628004	Field Blank	SM 9222D	872943	SM 9222D	872944
35760628001	SW-1	SM 2540C	874224		
35760628002	SW-1 DUP	SM 2540C	874224		
35760628003	SW-2	SM 2540C	874224		
35760628004	Field Blank	SM 2540C	874224		
35760628001	SW-1	SM 2540D	874170		
35760628002	SW-1 DUP	SM 2540D	874170		
35760628003	SW-2	SM 2540D	874170		
35760628004	Field Blank	SM 2540D	874170		
35760628001	SW-1	SM 5210B	873031	SM 5210B	874348
35760628002	SW-1 DUP	SM 5210B	873031	SM 5210B	874348
35760628003	SW-2	SM 5210B	873031	SM 5210B	874348
35760628004	Field Blank	SM 5210B	873031	SM 5210B	874348
35760628001	SW-1	SM10200	872749	SM10200	875017
35760628002	SW-1 DUP	SM10200	872749	SM10200	875017
35760628003	SW-2	SM10200	872749	SM10200	875017
35760628004	Field Blank	SM10200	872749	SM10200	875017
35760628001	SW-1	TKN+NOx Calculation	876128		
35760628002	SW-1 DUP	TKN+NOx Calculation	876128		
35760628003	SW-2	TKN+NOx Calculation	876128		
35760628004	Field Blank	TKN+NOx Calculation	876128		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW

Pace Project No.: 35760628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760628001	SW-1	EPA 350.1	875261		
35760628002	SW-1 DUP	EPA 350.1	875261		
35760628003	SW-2	EPA 350.1	875261		
35760628004	Field Blank	EPA 350.1	875262		
35760628001	SW-1	EPA 351.2	873204	EPA 351.2	874572
35760628002	SW-1 DUP	EPA 351.2	873204	EPA 351.2	874572
35760628003	SW-2	EPA 351.2	873204	EPA 351.2	874572
35760628004	Field Blank	EPA 351.2	873204	EPA 351.2	874572
35760628001	SW-1	EPA 353.2	872890		
35760628002	SW-1 DUP	EPA 353.2	872890		
35760628003	SW-2	EPA 353.2	872754		
35760628004	Field Blank	EPA 353.2	872754		
35760628001	SW-1	EPA 365.4	873205	EPA 365.4	874573
35760628002	SW-1 DUP	EPA 365.4	873205	EPA 365.4	874573
35760628003	SW-2	EPA 365.4	873205	EPA 365.4	874573
35760628004	Field Blank	EPA 365.4	873205	EPA 365.4	874573
35760628001	SW-1	EPA 410.4	873609	EPA 410.4	873809
35760628002	SW-1 DUP	EPA 410.4	873609	EPA 410.4	873809
35760628003	SW-2	EPA 410.4	873609	EPA 410.4	873809
35760628004	Field Blank	EPA 410.4	873609	EPA 410.4	873809
35760628001	SW-1	SM 5310B	873994		
35760628002	SW-1 DUP	SM 5310B	873994		
35760628003	SW-2	SM 5310B	873994		
35760628004	Field Blank	SM 5310B	873994		
35760628001	SW-1	FLDEP SOP 10/03/83	875975		
35760628002	SW-1 DUP	FLDEP SOP 10/03/83	877464		
35760628003	SW-2	FLDEP SOP 10/03/83	875975		
35760628004	Field Blank	FLDEP SOP 10/03/83	875975		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Field Sampling Log
Document Number:
F-FL-C-022 rev.01

Date Revised:
March 27, 2019
Issuing Authority:
Pace Florida Quality Office

Field Sampling Log

Arrived on Site Date: 11-17-22 Time: 0840 Departed Site Date: 11-17-22 Time: 1450
Sampler's Signature: H. BOGGS Sampler's Name: HOWARD BOGGS
CLIENT NAME: MANATEE COUNTY PROJECT NAME: LENA RD. LANDFILL
CLIENT CONTACT: BOB BENNETT SITE CONTACT: _____

Personnel on Site: _____

SITE Location: 3333 LENA RD. BRADENTON, FL

Ambient Conditions: 66°F MOSTLY SUNNY

Brief Description of Field Activities: COLLECT SURFACE WATER SW-1 & 2

Field Equipment Used: DREDGE, PSI MULTIMETER, GLOVES

Decon Procedures: Yes ☒ No ☐ If Yes, Please Describe _____

Field Filtering: Yes ☒ No ☐ If Yes, Please Describe _____

Sample Matrix: DW GW WW SU STW SO SE ML Other: SW

Physical Characteristics of Sample: _____

Sampling Method: _____

GRAB ☒

COMPOSITE ☐

Grab/Composite ☐

For Composite Sampling; Document Sampling Procedure for Collecting a Representative Sample: _____

QC Blanks: ☒

Precleaned EQB ☐

Field Cleaned EQB ☐

Field Blanks ☒

Trip Blanks ☒

QC Samples: ☐

Duplicate ☐

Replicate Samples ☐

Split Samples(explain) _____

Sampling Location	Date and Time	Parameters	Appearance	Odor	pH	Temp °C	Conductivity	DO	Turbidity
SW-2	11/17 1250	TANNIC	NO	6.5	20.0	761	2.93	49.5	
SW-1	11/17 1350	TANNIC	NO	7.33	19.0	456.1	6.00	6.50	
SUS	11/17 1350								
FB	11/17 1235								
SW-1	1345								

Composite Sampling

Compositor Set-up/Location	Date	Time	Timed/Flow	Flow Rate	# Samples/Hour
Compositor Breakdown	Date	Time	Hours Sampled		
Drive time to site:			Drive time back to Lab		

Other Notation's or Anomalies: _____



Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

2144
TmP

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used:

T-399

Date:

11/17/22

Time:

2:56

Initials:

CPI

State of Origin:

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 4.4 (Visual) 0.0 (Correction Factor) 4.4 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Time: _____ Initials: _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
Headspace in VOA Vials? (>6mm):	☒ Yes ☐ No ☐ N/A	Date: _____ Time: _____
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	Initials: _____
		Sample #1 SW-17 8160 w Vials as HS 113

Comments/ Resolution (use back for additional comments):



WO#: 35760628

IR)

Project #
Project Manager:
Client:

PM: CEM Due Date: 12/05/22
CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents: DS

Label:

Deliver: 11-17-22

pH:

Thermometer Used: T202

Date: 11-17-22 Time: 1645 Initials: DS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 4.6 (Visual) +0.2 (Correction Factor) 4.8 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	Preservative:
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #:
		Date:
		Time:
		Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Comments/ Resolution (use back for additional comments):

Kept LLHG & Fecals
IN TAMPA



Report of Analysis

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
Attention: Cameron Meynardie

Project Name: Lena Road Landfill SW
Project Number: 35760628
Lot Number: **XK21001**
Date Completed: 11/29/2022

12/04/2022 2:05 PM
Approved and released by:
Project Coordinator 1: **Jenna S. Holliday**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative **Pace Analytical Services, LLC** **Lot Number: XK21001**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical Services, LLC
Lot Number: XK21001
Project Name: Lena Road Landfill SW
Project Number: 35760628

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SW-1	Aqueous	11/17/2022 1350	11/21/2022
002	SW-1 DUP	Aqueous	11/17/2022 1350	11/21/2022
003	SW-2	Aqueous	11/17/2022 1250	11/21/2022
004	Field Blank	Aqueous	11/17/2022 1235	11/21/2022
005	SW-1 LLHG Field Blank	Aqueous	11/17/2022 1350	11/21/2022
006	SW-1 DUP LLHG Field Blank	Aqueous	11/17/2022 1350	11/21/2022
007	SW-2 LLHG Field Blank	Aqueous	11/17/2022 1250	11/21/2022
008	Field Blank LLHG Field Blank	Aqueous	11/17/2022 1345	11/21/2022

(8 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical Services, LLC
Lot Number: XK21001
Project Name: Lena Road Landfill SW
Project Number: 35760628

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SW-1	Aqueous	Mercury (CVAFS)	1631E	1.65		ng/L	5
002	SW-1 DUP	Aqueous	Mercury (CVAFS)	1631E	1.72		ng/L	6
003	SW-2	Aqueous	Mercury (CVAFS)	1631E	6.73		ng/L	7

(3 detections)

Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-001			
Description: SW-1				Matrix: Aqueous			
Date Sampled: 11/17/2022 1350				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0901	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	1.65		0.500	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-002			
Description: SW-1 DUP				Matrix: Aqueous			
Date Sampled: 11/17/2022 1350				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0907	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	1.72		0.500	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-003			
Description: SW-2				Matrix: Aqueous			
Date Sampled: 11/17/2022 1250				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	10	11/28/2022 0912	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	6.73		5.00	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-004			
Description: Field Blank				Matrix: Aqueous			
Date Sampled: 11/17/2022 1235				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0526	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	ND		0.500	ng/L	1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC			Laboratory ID: XK21001-005		
Description: SW-1 LLHG Field Blank			Matrix: Aqueous		
Date Sampled: 11/17/2022 1350			Project Name: Lena Road Landfill SW		
Date Received: 11/21/2022			Project Number: 35760628		

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0531	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	ND		0.500	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-006			
Description: SW-1 DUP LLHG Field Blank				Matrix: Aqueous			
Date Sampled: 11/17/2022 1350				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0537	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	ND		0.500	ng/L	1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-007			
Description: SW-2 LLHG Field Blank				Matrix: Aqueous			
Date Sampled: 11/17/2022 1250				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0544	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	ND		0.500	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Mercury (CVAFS)

Client: Pace Analytical Services, LLC				Laboratory ID: XK21001-008			
Description: Field Blank LLHG Field Blank				Matrix: Aqueous			
Date Sampled: 11/17/2022 1345				Project Name: Lena Road Landfill SW			
Date Received: 11/21/2022				Project Number: 35760628			

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		1631E	1	11/28/2022 0549	JAB2	11/22/2022 0832	60754

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Mercury (CVAFS)	7439-97-6	1631E	ND		0.500	ng/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
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QC Summary

Mercury (CVAFS) - MB

Sample ID: XQ60754-001

Matrix: Aqueous

Batch: 60754

Prep Method:

Analytical Method: 1631E

Prep Date: 11/22/2022 0832

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury (CVAFS)	ND		1	0.500	ng/L	11/28/2022 0312

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Mercury (CVAFS) - MB

Sample ID: XQ60754-101

Matrix: Aqueous

Batch: 60754

Prep Method:

Analytical Method: 1631E

Prep Date: 11/22/2022 0832

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Mercury (CVAFS)	ND		1	0.500	ng/L	11/28/2022 0318

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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QC Data for Lot Number: XK21001

Mercury (CVAFS) - LCS

Sample ID: XQ60754-002

Matrix: Aqueous

Batch: 60754

Prep Method:

Analytical Method: 1631E

Prep Date: 11/22/2022 0832

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Mercury (CVAFS)	5.00	4.48		1	90	75-125	11/28/2022 0323

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody and Miscellaneous Documents

Internal Transfer Chain of Custody



Workorder: 35760628
 Report To: Cameron Maynardie
 Pace Analytical Tampa
 110 South Bayview Blvd.
 Clearwater, FL 34617
 Phone 813-855-1844

Workorder Name: Lena Road Landfill SW
 Subcontract To: Pace Analytical West Columbia
 108 Vantage Point Drive
 West Columbia, SC 29172
 Phone (803) 791-9700

☐ Samples Pre-Logged into eCOC.

State Of Origin: FL

Cert. Needed: ☒ Yes ☐ No

Owner Received Date: 11/17/2022 Results Requested By: 12/5/2022



Requested Analysis



XK21001

JSH

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		1631 Low Level Mercury	Requested Analysis											
						Chg														
1	SW-1	PS	11/17/2022 13:40	35760628001	Water	1		X												
2	SW-1 DUP	PS	11/17/2022 13:50	35760628002	Water	1		X												
3	SW-2	PS	11/17/2022 12:50	35760628003	Water	1		X												
4	Field Blank	PS	11/17/2022 12:35	35760628004	Water	1		X												
5	SW-1 LL-Hg Field Blank	PS	11/17/2022 13:50	35760628005	Water	1		X												
6	SW-1 DUP LL-Hg Field Blank	PS	11/17/2022 13:50	35760628007	Water	1		X												
7	SW-2 LL-Hg Field Blank	PS	11/17/2022 12:50	35760628008	Water	1		X												
8	Field Blank LL-Hg Field Blank	PS	11/17/2022 13:45	35760628009	Water	1		X												

Transfers				Comments			
Released By	Date/Time	Received By	Date/Time				
SW-1 PACE	11/18/22 1900	Fedex	11/18/22 1900				
Fed ex	11/18/22 0950	Wanda N Valente	11/18/22 0950				
Cooler Temperature on Receipt 11.3 °C				Custody Seal	Y or N	Received on Ice	Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This claim of custody is considered complete as is since this information is available in the owner laboratory.

PACE ANALYTICAL SERVICES, LLC

DC# Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)

Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: Pace

Cooler Inspected by/date: KNR / 11/21/2022

Lot #: XK21001

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☒ FedEx ☐ Other:	
☐ Yes ☒ No	1. Were custody seals present on the cooler?
☐ Yes ☐ No ☒ NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
11.3 / 11.3 °C NA / NA °C NA / NA °C NA / NA °C	
Method: ☐ Temperature Blank ☒ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C	
Method of coolant: ☐ Wet Ice ☐ Ice Packs ☐ Dry Ice ☒ None	
☐ Yes ☒ No ☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone (email) face-to-face (circle one).
☐ Yes ☐ No ☐ NA	4. Is the commercial courier's packing slip attached to this form?
☒ Yes ☐ No	5. Were proper custody procedures (relinquished/received) followed?
☒ Yes ☐ No	6. Were sample IDs listed on the COC and all sample containers?
☒ Yes ☐ No	7. Was collection date & time listed on the COC and all sample containers?
☒ Yes ☐ No	8. Did all container label information (ID, date, time) agree with the COC?
☒ Yes ☐ No	9. Were tests to be performed listed on the COC?
☒ Yes ☐ No	10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☒ Yes ☐ No	11. Was adequate sample volume available?
☐ Yes ☒ No	12. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
☒ Yes ☐ No	13. Were all samples containers accounted for? (No missing/excess)
☐ Yes ☐ No ☒ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles > "pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
☐ Yes ☐ No ☒ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes ☐ No ☒ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes ☐ No ☒ NA	17. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes ☒ No ☐ NA	18. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles > 6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Unique ID: NA	
Comments:	

Qualtrax ID: 56360

Pace Analytical Services, LLC

Page 1 of 1

December 13, 2022

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill (Existing)
Pace Project No.: 35760637

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35760637001	GW-22	Water	11/17/22 09:03	11/17/22 16:45
35760637002	GW-23	Water	11/17/22 09:55	11/17/22 16:45
35760637003	GW-24	Water	11/17/22 10:53	11/17/22 16:45
35760637004	GW-24 DUP	Water	11/17/22 10:53	11/17/22 16:45
35760637005	MW-10A	Water	11/17/22 12:16	11/17/22 16:45
35760637006	Trip Blank	Water	11/17/22 00:01	11/17/22 16:45
35760637007	Trip Blank 3	Water	11/17/22 00:01	11/17/22 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760637001	GW-22	EPA 8011	SCL	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	CLT	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760637002	GW-23	EPA 8011	SCL	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	CLT	48	PASI-O
		SM 2540C	JJB	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760637003	GW-24	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	CLT	48	PASI-O
		SM 2540C	RAK	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760637004	GW-24 DUP	EPA 8011	SCL	2	PASI-O
		EPA 6010	TMA	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	CLT	48	PASI-O
		SM 2540C	RAK	1	PASI-O
		EPA 300.0	DDM	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	MRC	1	PASI-O
35760637005	MW-10A	EPA 6020	EAP	5	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35760637006	Trip Blank	EPA 8011	SCL	2	PASI-O
35760637007	Trip Blank 3	EPA 8011	SCL	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

6 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

5 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 7470

Description: 7470 Mercury

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 7470 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 874072

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 4811187)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- DUP (Lab ID: 4811189)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- GW-22 (Lab ID: 35760637001)
 - 2-Butanone (MEK)
 - Acetone
 - Acrylonitrile
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- GW-23 (Lab ID: 35760637002)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

QC Batch: 874072

J(v2): The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- Bromomethane
- Carbon disulfide
- Iodomethane
- Vinyl acetate
- GW-24 (Lab ID: 35760637003)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- GW-24 DUP (Lab ID: 35760637004)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- MS (Lab ID: 4811190)
 - Bromomethane
 - Iodomethane

J(v3): The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 4811188)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Bromomethane
 - Carbon disulfide
 - Iodomethane
 - Vinyl acetate
- MS (Lab ID: 4811190)
 - 2-Butanone (MEK)
 - Acetone
 - Bromoform
 - Carbon disulfide
 - Vinyl acetate

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: December 13, 2022

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 874072

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35761569002

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4811190)
 - 1,1,1,2-Tetrachloroethane
 - 1,1,2-Trichloroethane
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,4-Dichlorobenzene
 - Acetone
 - Acrylonitrile
 - Bromodichloromethane
 - Chloroform
 - Dibromomethane
 - Styrene
 - cis-1,3-Dichloropropene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for SM 2540C by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 874192

J(D6): Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 4811561)
- Total Dissolved Solids

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ unpres

Client: Manatee County Solid Waste

Date: December 13, 2022

General Information:

4 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-22		Lab ID: 35760637001		Collected: 11/17/22 09:03		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.00	Std. Units			1		11/17/22 09:03		
Field Temperature	23.2	deg C			1		11/17/22 09:03		
Field Specific Conductance	237.2	umhos/cm			1		11/17/22 09:03		
Oxygen, Dissolved	1.51	mg/L			1		11/17/22 09:03	7782-44-7	
Turbidity	7.38	NTU			1		11/17/22 09:03		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:37	11/22/22 07:16	96-12-8	
1,2-Dibromoethane (EDB)	0.0077 U	ug/L	0.010	0.0077	1	11/21/22 11:37	11/22/22 07:16	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Barium	17.7	ug/L	10.0	0.84	1	11/21/22 03:37	11/30/22 04:32	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/21/22 03:37	11/30/22 04:32	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/21/22 03:37	11/30/22 04:32	7440-43-9	
Chromium	2.7 I	ug/L	5.0	1.7	1	11/21/22 03:37	11/30/22 04:32	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/21/22 03:37	11/30/22 04:32	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/21/22 03:37	11/30/22 04:32	7440-50-8	
Iron	3540	ug/L	40.0	25.0	1	11/21/22 03:37	11/30/22 04:32	7439-89-6	
Nickel	1.2 I	ug/L	5.0	1.0	1	11/21/22 03:37	11/30/22 04:32	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/21/22 03:37	11/30/22 04:32	7440-22-4	
Sodium	7.5	mg/L	2.0	0.54	1	11/21/22 03:37	11/30/22 04:32	7440-23-5	
Vanadium	7.5 I	ug/L	10.0	1.0	1	11/21/22 03:37	11/30/22 04:32	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/21/22 03:37	11/30/22 04:32	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:16	7440-36-0	
Arsenic	5.0	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:16	7440-38-2	
Lead	0.35 I	ug/L	1.0	0.22	1	11/21/22 03:37	11/21/22 13:16	7439-92-1	
Selenium	1.3 I	ug/L	2.0	0.20	1	11/21/22 03:37	11/21/22 13:16	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/21/22 03:37	11/21/22 13:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/28/22 15:56	11/30/22 13:49	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 16:50	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 16:50	107-13-1	J(v2)
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 16:50	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 16:50	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-22 **Lab ID: 35760637001** Collected: 11/17/22 09:03 Received: 11/17/22 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 16:50	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 16:50	75-25-2	J(v2)
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 16:50	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 16:50	78-93-3	J(v2)
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 16:50	75-15-0	J(v2)
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 16:50	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 16:50	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 16:50	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 16:50	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 16:50	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 16:50	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 16:50	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 16:50	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 16:50	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 16:50	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 16:50	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 16:50	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 16:50	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 16:50	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 16:50	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 16:50	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 16:50	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 16:50	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 16:50	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 16:50	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 16:50	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 16:50	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 16:50	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 16:50	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 16:50	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 16:50	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 16:50	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 16:50	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 16:50	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 16:50	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 16:50	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 16:50	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 16:50	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 16:50	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 16:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/23/22 16:50	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/23/22 16:50	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/23/22 16:50	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-22		Lab ID: 35760637001		Collected: 11/17/22 09:03		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	167	mg/L	5.0	5.0	1		11/23/22 10:23		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	11.5	mg/L	5.0	2.5	1		11/23/22 00:35	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	1.6	mg/L	0.050	0.035	1		11/30/22 21:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/18/22 10:42	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-23		Lab ID: 35760637002		Collected: 11/17/22 09:55		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.63	Std. Units			1		11/17/22 09:55		
Field Temperature	22.1	deg C			1		11/17/22 09:55		
Field Specific Conductance	484.2	umhos/cm			1		11/17/22 09:55		
Oxygen, Dissolved	1.78	mg/L			1		11/17/22 09:55	7782-44-7	
Turbidity	2.22	NTU			1		11/17/22 09:55		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:37	11/22/22 07:31	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:37	11/22/22 07:31	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	18.1	ug/L	10.0	0.84	1	11/21/22 03:37	11/30/22 04:42	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/21/22 03:37	11/30/22 04:42	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/21/22 03:37	11/30/22 04:42	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/21/22 03:37	11/30/22 04:42	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/21/22 03:37	11/30/22 04:42	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/21/22 03:37	11/30/22 04:42	7440-50-8	
Iron	351	ug/L	40.0	25.0	1	11/21/22 03:37	11/30/22 04:42	7439-89-6	
Nickel	1.1 I	ug/L	5.0	1.0	1	11/21/22 03:37	11/30/22 04:42	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/21/22 03:37	11/30/22 04:42	7440-22-4	
Sodium	11.4	mg/L	2.0	0.54	1	11/21/22 03:37	11/30/22 04:42	7440-23-5	
Vanadium	14.2	ug/L	10.0	1.0	1	11/21/22 03:37	11/30/22 04:42	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/21/22 03:37	11/30/22 04:42	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.70 I	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:26	7440-36-0	
Arsenic	0.73 I	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:26	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/21/22 03:37	11/21/22 13:26	7439-92-1	
Selenium	1.5 I	ug/L	2.0	0.20	1	11/21/22 03:37	11/21/22 13:26	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/21/22 03:37	11/21/22 13:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/29/22 12:28	11/30/22 14:05	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 17:13	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 17:13	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 17:13	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 17:13	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-23		Lab ID: 35760637002		Collected: 11/17/22 09:55		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 17:13	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 17:13	75-25-2	J(v2)
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 17:13	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 17:13	78-93-3	J(v2)
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 17:13	75-15-0	J(v2)
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 17:13	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 17:13	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 17:13	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 17:13	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 17:13	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 17:13	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 17:13	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 17:13	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 17:13	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 17:13	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 17:13	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 17:13	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 17:13	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 17:13	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 17:13	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 17:13	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 17:13	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 17:13	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 17:13	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 17:13	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 17:13	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 17:13	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 17:13	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 17:13	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 17:13	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 17:13	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 17:13	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 17:13	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 17:13	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 17:13	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 17:13	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 17:13	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 17:13	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 17:13	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 17:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/23/22 17:13	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/23/22 17:13	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/23/22 17:13	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-23 Lab ID: 35760637002 Collected: 11/17/22 09:55 Received: 11/17/22 16:45 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach									
Total Dissolved Solids	337	mg/L	5.0	5.0	1		11/23/22 13:37		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	20.5	mg/L	5.0	2.5	1		11/23/22 00:58	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.31	mg/L	0.050	0.035	1		11/30/22 21:10	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.30	mg/L	0.050	0.025	1		11/18/22 11:38	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24		Lab ID: 35760637003		Collected: 11/17/22 10:53		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.65	Std. Units			1		11/17/22 10:53		
Field Temperature	25.2	deg C			1		11/17/22 10:53		
Field Specific Conductance	600	umhos/cm			1		11/17/22 10:53		
Oxygen, Dissolved	1.63	mg/L			1		11/17/22 10:53	7782-44-7	
Turbidity	6.34	NTU			1		11/17/22 10:53		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:37	11/22/22 08:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:37	11/22/22 08:01	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	17.0	ug/L	10.0	0.84	1	11/21/22 03:37	12/01/22 22:34	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/21/22 03:37	12/01/22 22:34	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/21/22 03:37	12/01/22 22:34	7440-43-9	
Chromium	2.8 I	ug/L	5.0	1.7	1	11/21/22 03:37	12/01/22 22:34	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/21/22 03:37	12/01/22 22:34	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/21/22 03:37	12/01/22 22:34	7440-50-8	
Iron	545	ug/L	40.0	25.0	1	11/21/22 03:37	12/01/22 22:34	7439-89-6	
Nickel	2.0 I	ug/L	5.0	1.0	1	11/21/22 03:37	12/01/22 22:34	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/21/22 03:37	12/01/22 22:34	7440-22-4	
Sodium	13.0	mg/L	2.0	0.54	1	11/21/22 03:37	12/01/22 22:34	7440-23-5	
Vanadium	3.4 I	ug/L	10.0	1.0	1	11/21/22 03:37	12/01/22 22:34	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/21/22 03:37	12/01/22 22:34	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 15:20	7440-36-0	
Arsenic	0.78 I	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 15:20	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/21/22 03:37	11/21/22 15:20	7439-92-1	
Selenium	0.69 I	ug/L	2.0	0.20	1	11/21/22 03:37	11/21/22 15:20	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/21/22 03:37	11/21/22 15:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/29/22 12:28	11/30/22 14:07	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 18:21	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 18:21	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:21	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 18:21	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24 **Lab ID: 35760637003** Collected: 11/17/22 10:53 Received: 11/17/22 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 18:21	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 18:21	75-25-2	J(v2)
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 18:21	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 18:21	78-93-3	J(v2)
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 18:21	75-15-0	J(v2)
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 18:21	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 18:21	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 18:21	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 18:21	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 18:21	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 18:21	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 18:21	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 18:21	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 18:21	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 18:21	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 18:21	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 18:21	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 18:21	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 18:21	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 18:21	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 18:21	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 18:21	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 18:21	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:21	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 18:21	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 18:21	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 18:21	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 18:21	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 18:21	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 18:21	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:21	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:21	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 18:21	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 18:21	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 18:21	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 18:21	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 18:21	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 18:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/23/22 18:21	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/23/22 18:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/23/22 18:21	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24		Lab ID: 35760637003		Collected: 11/17/22 10:53		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	383	mg/L	5.0	5.0	1		11/23/22 20:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	35.3	mg/L	5.0	2.5	1		11/23/22 01:21	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.11	mg/L	0.050	0.035	1		11/30/22 21:12	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.73	mg/L	0.050	0.025	1		11/18/22 11:47	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24 DUP Lab ID: 35760637004 Collected: 11/17/22 10:53 Received: 11/17/22 16:45 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.65	Std. Units			1		11/17/22 10:53		
Field Temperature	25.2	deg C			1		11/17/22 10:53		
Field Specific Conductance	600	umhos/cm			1		11/17/22 10:53		
Oxygen, Dissolved	1.63	mg/L			1		11/17/22 10:53	7782-44-7	
Turbidity	6.34	NTU			1		11/17/22 10:53		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	11/21/22 11:37	11/22/22 08:15	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	11/21/22 11:37	11/22/22 08:15	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Barium	16.1	ug/L	10.0	0.84	1	11/21/22 03:37	12/01/22 22:38	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	11/21/22 03:37	12/01/22 22:38	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/21/22 03:37	12/01/22 22:38	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/21/22 03:37	12/01/22 22:38	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/21/22 03:37	12/01/22 22:38	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/21/22 03:37	12/01/22 22:38	7440-50-8	
Iron	513	ug/L	40.0	25.0	1	11/21/22 03:37	12/01/22 22:38	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	11/21/22 03:37	12/01/22 22:38	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/21/22 03:37	12/01/22 22:38	7440-22-4	
Sodium	12.5	mg/L	2.0	0.54	1	11/21/22 03:37	12/01/22 22:38	7440-23-5	
Vanadium	2.8 I	ug/L	10.0	1.0	1	11/21/22 03:37	12/01/22 22:38	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/21/22 03:37	12/01/22 22:38	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:37	7440-36-0	
Arsenic	0.72 I	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:37	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/21/22 03:37	11/21/22 13:37	7439-92-1	
Selenium	0.67 I	ug/L	2.0	0.20	1	11/21/22 03:37	11/21/22 13:37	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/21/22 03:37	11/21/22 13:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	11/29/22 12:28	11/30/22 14:10	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		11/23/22 18:44	67-64-1	J(v2)
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		11/23/22 18:44	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:44	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		11/23/22 18:44	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24 DUP		Lab ID: 35760637004		Collected: 11/17/22 10:53		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		11/23/22 18:44	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		11/23/22 18:44	75-25-2	J(v2)
Bromomethane	3.9 U	ug/L	10.0	3.9	1		11/23/22 18:44	74-83-9	J(v2)
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		11/23/22 18:44	78-93-3	J(v2)
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		11/23/22 18:44	75-15-0	J(v2)
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		11/23/22 18:44	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		11/23/22 18:44	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		11/23/22 18:44	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		11/23/22 18:44	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		11/23/22 18:44	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		11/23/22 18:44	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		11/23/22 18:44	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		11/23/22 18:44	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		11/23/22 18:44	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		11/23/22 18:44	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		11/23/22 18:44	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		11/23/22 18:44	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		11/23/22 18:44	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		11/23/22 18:44	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		11/23/22 18:44	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		11/23/22 18:44	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		11/23/22 18:44	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		11/23/22 18:44	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:44	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		11/23/22 18:44	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		11/23/22 18:44	74-88-4	J(v2)
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		11/23/22 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		11/23/22 18:44	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		11/23/22 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		11/23/22 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		11/23/22 18:44	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		11/23/22 18:44	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		11/23/22 18:44	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:44	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		11/23/22 18:44	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		11/23/22 18:44	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		11/23/22 18:44	75-69-4	
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		11/23/22 18:44	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		11/23/22 18:44	108-05-4	J(v2)
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		11/23/22 18:44	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		11/23/22 18:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/23/22 18:44	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		11/23/22 18:44	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/23/22 18:44	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: GW-24 DUP		Lab ID: 35760637004		Collected: 11/17/22 10:53		Received: 11/17/22 16:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Ormond Beach							
Total Dissolved Solids	393	mg/L	5.0	5.0	1		11/23/22 20:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	34.3	mg/L	5.0	2.5	1		11/23/22 01:43	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.18	mg/L	0.050	0.035	1		11/30/22 21:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.57	mg/L	0.050	0.025	1		11/18/22 11:48	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: MW-10A **Lab ID: 35760637005** Collected: 11/17/22 12:16 Received: 11/17/22 16:45 Matrix: Water

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

Field Data

Analytical Method:

Pace Analytical Services - Ormond Beach

Field pH	7.10	Std. Units			1		11/17/22 12:16		
Field Temperature	22.0	deg C			1		11/17/22 12:16		
Field Specific Conductance	920	umhos/cm			1		11/17/22 12:16		
Oxygen, Dissolved	0.42	mg/L			1		11/17/22 12:16	7782-44-7	
Turbidity	11.0	NTU			1		11/17/22 12:16		

6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Antimony	0.50 U	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:39	7440-36-0	
Arsenic	38.7	ug/L	1.0	0.50	1	11/21/22 03:37	11/21/22 13:39	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	11/21/22 03:37	11/21/22 13:39	7439-92-1	
Selenium	0.28 I	ug/L	2.0	0.20	1	11/21/22 03:37	11/21/22 13:39	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	11/21/22 03:37	11/21/22 13:39	7440-28-0	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: Trip Blank		Lab ID: 35760637006	Collected: 11/17/22 00:01	Received: 11/17/22 16:45	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:39	11/22/22 16:13	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:39	11/22/22 16:13	106-93-4	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Sample: Trip Blank 3		Lab ID: 35760637007	Collected: 11/17/22 00:01	Received: 11/17/22 16:45	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	11/21/22 11:39	11/22/22 16:29	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	11/21/22 11:39	11/22/22 16:29	106-93-4	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874825

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001

METHOD BLANK: 4813855

Matrix: Water

Associated Lab Samples: 35760637001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/30/22 12:47	

LABORATORY CONTROL SAMPLE: 4813856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4813857 4813858

Parameter	Units	35760334005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.090 U	2	2	2.0	2.0	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874835

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637002, 35760637003, 35760637004

METHOD BLANK: 4813918

Matrix: Water

Associated Lab Samples: 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	11/30/22 14:00	

LABORATORY CONTROL SAMPLE: 4813919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4813920 4813921

Parameter	Units	35761832002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.090	2	2	2.0	2.0	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 873241

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4806948

Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/30/22 04:25	
Beryllium	ug/L	0.17 U	4.0	0.17	11/30/22 04:25	
Cadmium	ug/L	0.33 U	1.0	0.33	11/30/22 04:25	
Chromium	ug/L	1.7 U	5.0	1.7	11/30/22 04:25	
Cobalt	ug/L	0.96 U	10.0	0.96	11/30/22 04:25	
Copper	ug/L	2.6 U	5.0	2.6	11/30/22 04:25	
Iron	ug/L	25.0 U	40.0	25.0	11/30/22 04:25	
Nickel	ug/L	1.0 U	5.0	1.0	11/30/22 04:25	
Silver	ug/L	1.0 U	5.0	1.0	11/30/22 04:25	
Sodium	mg/L	0.54 U	2.0	0.54	11/30/22 04:25	
Vanadium	ug/L	1.0 U	10.0	1.0	11/30/22 04:25	
Zinc	ug/L	11.0 U	20.0	11.0	11/30/22 04:25	

LABORATORY CONTROL SAMPLE: 4806949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	251	100	80-120	
Beryllium	ug/L	25	23.7	95	80-120	
Cadmium	ug/L	25	23.9	95	80-120	
Chromium	ug/L	250	245	98	80-120	
Cobalt	ug/L	250	235	94	80-120	
Copper	ug/L	250	229	92	80-120	
Iron	ug/L	2500	2460	98	80-120	
Nickel	ug/L	250	239	96	80-120	
Silver	ug/L	25	23.3	93	80-120	
Sodium	mg/L	12.5	12.4	100	80-120	
Vanadium	ug/L	250	237	95	80-120	
Zinc	ug/L	1250	1200	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806950 4806951

Parameter	Units	35760637002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	18.1	250	250	266	259	99	96	75-125	3	20	
Beryllium	ug/L	0.17 U	25	25	24.9	25.1	100	100	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	24.7	24.8	99	99	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	253	248	101	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806950 4806951												
Parameter	Units	35760637002		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	Max
		Result		Spike	Spike							
				Conc.	Conc.	Result	Result	% Rec	% Rec		RPD	RPD
Cobalt	ug/L	0.96 U		250	250	246	248	98	99	75-125	1	20
Copper	ug/L	2.6 U		250	250	243	237	97	95	75-125	2	20
Iron	ug/L	351		2500	2500	2810	2790	98	97	75-125	1	20
Nickel	ug/L	1.1 I		250	250	249	250	99	100	75-125	1	20
Silver	ug/L	1.0 U		25	25	24.6	24.1	99	96	75-125	2	20
Sodium	mg/L	11.4		12.5	12.5	24.0	24.1	101	101	75-125	0	20
Vanadium	ug/L	14.2		250	250	262	254	99	96	75-125	3	20
Zinc	ug/L	11.0 U		1250	1250	1230	1240	99	99	75-125	0	20

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 873240

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004, 35760637005

METHOD BLANK: 4806944

Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004, 35760637005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/21/22 13:11	
Arsenic	ug/L	0.50 U	1.0	0.50	11/21/22 13:11	
Lead	ug/L	0.22 U	1.0	0.22	11/21/22 13:11	
Selenium	ug/L	0.20 U	2.0	0.20	11/21/22 13:11	
Thallium	ug/L	0.11 U	1.0	0.11	11/21/22 13:11	

LABORATORY CONTROL SAMPLE: 4806945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.3	101	80-120	
Arsenic	ug/L	50	49.6	99	80-120	
Lead	ug/L	50	51.2	102	80-120	
Selenium	ug/L	50	53.5	107	80-120	
Thallium	ug/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4806946 4806947

Parameter	Units	35760637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	49.4	50.3	98	100	75-125	2	20	
Arsenic	ug/L	5.0	50	50	54.1	54.5	98	99	75-125	1	20	
Lead	ug/L	0.35 I	50	50	49.9	51.0	99	101	75-125	2	20	
Selenium	ug/L	1.3 I	50	50	52.2	52.7	102	103	75-125	1	20	
Thallium	ug/L	0.11 U	50	50	49.3	49.5	98	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874072

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4811187

Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	11/23/22 10:42	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/23/22 10:42	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	11/23/22 10:42	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	11/23/22 10:42	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	11/23/22 10:42	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	11/23/22 10:42	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	11/23/22 10:42	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	11/23/22 10:42	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	11/23/22 10:42	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	11/23/22 10:42	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	11/23/22 10:42	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	11/23/22 10:42	J(v2)
2-Hexanone	ug/L	3.2 U	25.0	3.2	11/23/22 10:42	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	11/23/22 10:42	
Acetone	ug/L	8.7 U	25.0	8.7	11/23/22 10:42	J(v2)
Acrylonitrile	ug/L	3.7 U	20.0	3.7	11/23/22 10:42	
Benzene	ug/L	0.30 U	1.0	0.30	11/23/22 10:42	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	11/23/22 10:42	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	11/23/22 10:42	
Bromoform	ug/L	0.48 U	3.0	0.48	11/23/22 10:42	J(v2)
Bromomethane	ug/L	3.9 U	10.0	3.9	11/23/22 10:42	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	11/23/22 10:42	J(v2)
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	11/23/22 10:42	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	11/23/22 10:42	
Chloroethane	ug/L	3.7 U	10.0	3.7	11/23/22 10:42	
Chloroform	ug/L	0.56 U	1.0	0.56	11/23/22 10:42	
Chloromethane	ug/L	0.43 U	1.0	0.43	11/23/22 10:42	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	11/23/22 10:42	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	11/23/22 10:42	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	11/23/22 10:42	
Dibromomethane	ug/L	0.68 U	2.0	0.68	11/23/22 10:42	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	11/23/22 10:42	
Iodomethane	ug/L	3.6 U	10.0	3.6	11/23/22 10:42	J(v2)
Methylene Chloride	ug/L	1.7 U	5.0	1.7	11/23/22 10:42	
Styrene	ug/L	0.26 U	1.0	0.26	11/23/22 10:42	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	11/23/22 10:42	
Toluene	ug/L	0.33 U	1.0	0.33	11/23/22 10:42	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	11/23/22 10:42	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	11/23/22 10:42	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	11/23/22 10:42	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

METHOD BLANK: 4811187

Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	11/23/22 10:42	
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	11/23/22 10:42	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	11/23/22 10:42	J(v2)
Vinyl chloride	ug/L	0.39 U	1.0	0.39	11/23/22 10:42	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	11/23/22 10:42	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130		11/23/22 10:42	
4-Bromofluorobenzene (S)	%	89	70-130		11/23/22 10:42	
Toluene-d8 (S)	%	97	70-130		11/23/22 10:42	

LABORATORY CONTROL SAMPLE: 4811188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	92	70-130	
1,1,1-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	68-125	
1,1,2-Trichloroethane	ug/L	20	17.3	87	70-130	
1,1-Dichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethene	ug/L	20	17.6	88	66-133	
1,2,3-Trichloropropane	ug/L	20	18.9	95	62-127	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	20	16.9	84	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	100	77.3	77	47-143 J(v3)	
2-Hexanone	ug/L	100	102	102	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	57-132	
Acetone	ug/L	100	64.5	65	46-148 J(v3)	
Acrylonitrile	ug/L	100	88.8	89	60-143	
Benzene	ug/L	20	19.6	98	70-130	
Bromochloromethane	ug/L	20	18.6	93	70-130	
Bromodichloromethane	ug/L	20	16.4	82	70-130	
Bromoform	ug/L	20	15.0	75	49-126 J(v3)	
Bromomethane	ug/L	20	15.6	78	10-165 J(v3)	
Carbon disulfide	ug/L	20	12.0	60	60-141 J(v3)	
Carbon tetrachloride	ug/L	20	16.9	85	63-126	
Chlorobenzene	ug/L	20	18.8	94	70-130	
Chloroethane	ug/L	20	22.5	112	71-142	
Chloroform	ug/L	20	17.1	85	70-130	
Chloromethane	ug/L	20	21.9	110	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	93	70-130	
Dibromochloromethane	ug/L	20	16.9	85	62-118	
Dibromomethane	ug/L	20	16.6	83	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

LABORATORY CONTROL SAMPLE: 4811188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	14.4	72	10-164	J(v3)
Methylene Chloride	ug/L	20	19.3	96	65-136	
Styrene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	17.8	89	64-134	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.8	94	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	18.5	92	42-129	
Trichloroethene	ug/L	20	17.9	89	70-130	
Trichlorofluoromethane	ug/L	20	18.3	91	65-135	
Vinyl acetate	ug/L	20	14.3	72	60-144	J(v3)
Vinyl chloride	ug/L	20	21.3	107	68-131	
Xylene (Total)	ug/L	60	57.3	95	70-130	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4811190

Parameter	Units	35761569002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	13.7	68	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	0.30 U	20	14.7	73	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	14.9	75	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	13.8	69	70-130	J(M1)
1,1-Dichloroethane	ug/L	0.34 U	20	15.5	77	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	14.9	74	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	13.9	70	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	13.3	66	70-130	J(M1)
1,2-Dichloroethane	ug/L	0.27 U	20	13.5	68	70-130	J(M1)
1,2-Dichloropropane	ug/L	0.23 U	20	15.1	75	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	13.1	66	70-130	J(M1)
2-Butanone (MEK)	ug/L	6.7 U	100	60.8	61	47-143	J(v3)
2-Hexanone	ug/L	3.2 U	100	85.5	85	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	93.4	93	57-132	
Acetone	ug/L	8.7 U	100	40.8	41	46-148	J(M1),J(v3)
Acrylonitrile	ug/L	3.7 U	100	57.6	58	60-143	J(M1)
Benzene	ug/L	0.30 U	20	15.6	78	70-130	
Bromochloromethane	ug/L	0.37 U	20	14.3	72	70-130	
Bromodichloromethane	ug/L	0.19 U	20	13.5	68	70-130	J(M1)
Bromoform	ug/L	0.48 U	20	11.4	57	49-126	J(v3)
Bromomethane	ug/L	3.9 U	20	5.4 I	27	10-165	J(v2)
Carbon disulfide	ug/L	1.8 U	20	13.4	67	60-141	J(v3)
Carbon tetrachloride	ug/L	0.44 U	20	13.5	67	63-126	
Chlorobenzene	ug/L	0.35 U	20	14.8	74	70-130	
Chloroethane	ug/L	3.7 U	20	16.4	82	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

MATRIX SPIKE SAMPLE: 4811190		35761569002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroform	ug/L	0.56 U	20	12.7	63	70-130	J(M1)
Chloromethane	ug/L	0.43 U	20	18.0	90	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	14.8	74	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	13.7	68	70-130	J(M1)
Dibromochloromethane	ug/L	0.45 U	20	12.9	65	62-118	
Dibromomethane	ug/L	0.68 U	20	12.3	62	70-130	J(M1)
Ethylbenzene	ug/L	0.30 U	20	14.7	74	70-130	
Iodomethane	ug/L	3.6 U	20	4.8 I	24	10-164	J(v2)
Methylene Chloride	ug/L	1.7 U	20	14.1	71	65-136	
Styrene	ug/L	0.26 U	20	13.8	69	70-130	J(M1)
Tetrachloroethene	ug/L	0.38 U	20	13.3	67	64-134	
Toluene	ug/L	0.33 U	20	14.9	75	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	14.6	73	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	14.1	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	12.8	64	42-129	
Trichloroethene	ug/L	0.36 U	20	14.2	71	70-130	
Trichlorofluoromethane	ug/L	0.72 U	20	14.0	70	65-135	
Vinyl acetate	ug/L	1.8 U	20	12.8	64	60-144	J(v3)
Vinyl chloride	ug/L	0.39 U	20	17.9	90	68-131	
Xylene (Total)	ug/L	2.1 U	60	42.7	71	70-130	
1,2-Dichlorobenzene-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				94	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 4811189

Parameter	Units	35761569001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	J(v2)
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	8.7 U	8.7 U		40	J(v2)
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

SAMPLE DUPLICATE: 4811189

Parameter	Units	35761569001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	J(v2)
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	J(v2)
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	3.5	3.7	5	40	
Iodomethane	ug/L	3.6 U	3.6 U		40	J(v2)
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	J(v2)
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	101	100		40	
4-Bromofluorobenzene (S)	%	93	93		40	
Toluene-d8 (S)	%	97	96		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch:	873222	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4806908 Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/22/22 03:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/22/22 03:33	

LABORATORY CONTROL SAMPLE: 4806909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	100	60-140	

MATRIX SPIKE SAMPLE: 4806910

Parameter	Units	35760284003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0067 U	0.25	0.22	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0078 U	0.25	0.23	89	60-140	

SAMPLE DUPLICATE: 4806911

Parameter	Units	35760284004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	0.0063 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	0.0074 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch:	873311	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637006, 35760637007

METHOD BLANK: 4807106 Matrix: Water

Associated Lab Samples: 35760637006, 35760637007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/22/22 10:00	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/22/22 10:00	

LABORATORY CONTROL SAMPLE: 4807107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.26	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	108	60-140	

MATRIX SPIKE SAMPLE: 4807108

Parameter	Units	35760626004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	0.25	0.19	74	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0077 U	0.25	0.19	76	60-140	

SAMPLE DUPLICATE: 4807109

Parameter	Units	35760626005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0066 U	0.0065 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0077 U	0.0076 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874001

QC Batch Method: SM 2540C

Analysis Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001

METHOD BLANK: 4810926

Matrix: Water

Associated Lab Samples: 35760637001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/23/22 10:23	

LABORATORY CONTROL SAMPLE: 4810927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	90-110	

SAMPLE DUPLICATE: 4810928

Parameter	Units	35760405007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	289	288	0	10	

SAMPLE DUPLICATE: 4810929

Parameter	Units	35760854006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	117	127	8	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874088

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637002

METHOD BLANK: 4811219

Matrix: Water

Associated Lab Samples: 35760637002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/23/22 13:37	

LABORATORY CONTROL SAMPLE: 4811220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 4811221

Parameter	Units	35760637002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	337	331	2	10	

SAMPLE DUPLICATE: 4811222

Parameter	Units	35760807003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	341	354	4	10	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 874192

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637003, 35760637004

METHOD BLANK: 4811558

Matrix: Water

Associated Lab Samples: 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/23/22 20:00	

LABORATORY CONTROL SAMPLE: 4811559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	303	101	90-110	

SAMPLE DUPLICATE: 4811560

Parameter	Units	35760714002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3910	3810	3	10	

SAMPLE DUPLICATE: 4811561

Parameter	Units	35760703003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	114	101	12	10	J(D6)

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch: 873838

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4809726

Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/22/22 15:28	

LABORATORY CONTROL SAMPLE: 4809727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812963 4812964

Parameter	Units	35761344003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	31.8	50	50	85.9	86.5	108	109	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4812965 4812966

Parameter	Units	35761344011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	55.0	54.8	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch:	875262	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4815886 Matrix: Water
Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/30/22 20:58	

LABORATORY CONTROL SAMPLE: 4815887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815889 4815888

Parameter	Units	35760637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.6	1	1	2.6	2.6	100	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4815890 4815891

Parameter	Units	35760703002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.99	1	1	2.0	2.0	102	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

QC Batch:	872754	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

METHOD BLANK: 4804340 Matrix: Water

Associated Lab Samples: 35760637001, 35760637002, 35760637003, 35760637004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/18/22 10:40	

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QUALIFIERS

Project: Lena Road Landfill (Existing)
Pace Project No.: 35760637

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760637001	GW-22				
35760637002	GW-23				
35760637003	GW-24				
35760637004	GW-24 DUP				
35760637005	MW-10A				
35760637001	GW-22	EPA 8011	873222	EPA 8011	873527
35760637002	GW-23	EPA 8011	873222	EPA 8011	873527
35760637003	GW-24	EPA 8011	873222	EPA 8011	873527
35760637004	GW-24 DUP	EPA 8011	873222	EPA 8011	873527
35760637006	Trip Blank	EPA 8011	873311	EPA 8011	873531
35760637007	Trip Blank 3	EPA 8011	873311	EPA 8011	873531
35760637001	GW-22	EPA 3010	873241	EPA 6010	873271
35760637002	GW-23	EPA 3010	873241	EPA 6010	873271
35760637003	GW-24	EPA 3010	873241	EPA 6010	873271
35760637004	GW-24 DUP	EPA 3010	873241	EPA 6010	873271
35760637001	GW-22	EPA 3010	873240	EPA 6020	873269
35760637002	GW-23	EPA 3010	873240	EPA 6020	873269
35760637003	GW-24	EPA 3010	873240	EPA 6020	873269
35760637004	GW-24 DUP	EPA 3010	873240	EPA 6020	873269
35760637005	MW-10A	EPA 3010	873240	EPA 6020	873269
35760637001	GW-22	EPA 7470	874825	EPA 7470	874959
35760637002	GW-23	EPA 7470	874835	EPA 7470	875187
35760637003	GW-24	EPA 7470	874835	EPA 7470	875187
35760637004	GW-24 DUP	EPA 7470	874835	EPA 7470	875187
35760637001	GW-22	EPA 8260	874072		
35760637002	GW-23	EPA 8260	874072		
35760637003	GW-24	EPA 8260	874072		
35760637004	GW-24 DUP	EPA 8260	874072		
35760637001	GW-22	SM 2540C	874001		
35760637002	GW-23	SM 2540C	874088		
35760637003	GW-24	SM 2540C	874192		
35760637004	GW-24 DUP	SM 2540C	874192		
35760637001	GW-22	EPA 300.0	873838		
35760637002	GW-23	EPA 300.0	873838		
35760637003	GW-24	EPA 300.0	873838		
35760637004	GW-24 DUP	EPA 300.0	873838		
35760637001	GW-22	EPA 350.1	875262		
35760637002	GW-23	EPA 350.1	875262		
35760637003	GW-24	EPA 350.1	875262		
35760637004	GW-24 DUP	EPA 350.1	875262		
35760637001	GW-22	EPA 353.2	872754		
35760637002	GW-23	EPA 353.2	872754		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35760637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35760637003	GW-24	EPA 353.2	872754		
35760637004	GW-24 DUP	EPA 353.2	872754		

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Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

2144

tmp

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used:

T-399

Date:

11/17/22

Time:

2201

Initials:

CPI

State of Origin:

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 0.3 (Visual) 0.0 (Correction Factor) 0.3 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ 0.9 (Visual) (Correction Factor) 0.9 (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ 2.2 (Visual) (Correction Factor) 2.2 (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

Seals intact: ☐ Yes ☐ No

Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete)

Shorted Date:

Shorted Time:

Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative:
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #:
		Date:
		Time:
		Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):



WO#: 35760637

IR)

Project #
Project Manager:
Client:

PM: CEM Due Date: 12/05/22
CLIENT: MANCOU-SW

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T202

Date: 11-17-22

Time: 1645

Initials: DS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 3.3 (Visual) +0.2 (Correction Factor) 3.5 (Actual)

☒ Samples on ice, cooling process has begun

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

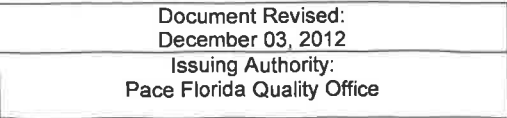
Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☐ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☐ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☐ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☐ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☐ No ☐ N/A	
Sufficient Volume	☐ Yes ☐ No ☐ N/A	
Correct Containers Used	☐ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

Book Number: Page 57 of 60



SITE NAME: M. C. LENA LANDFILL		SITE LOCATION: 8333 LENA RD. BRADENTON	
WELL NO: GW-23	SAMPLE ID: GW-23	DATE: 11-17-22	

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: DEPTH: 22.4 feet TO 22.4 feet	STATIC DEPTH TO WATER (feet): 9.07	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 22.4 feet - 9.07 feet X 0.16 gallons/foot = 2.1344 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16'	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0954	TOTAL VOLUME PURGED (gallons): 3.40

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016									
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)									

SAMPLED BY (PRINT) / AFFILIATION: Howard Hughes		SAMPLER(S) SIGNATURE(S): H. Hughes		SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1005
PUMP OR TUBING DEPTH IN WELL (feet): 16'		TUBING MATERIAL CODE: HDE/S		FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y ☒ N ☐		TUBING Y ☐ N (replaced) ☒		DUPLICATE: Y ☒ N ☐	

REMARKS:

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

Page 58 of 60
Book Number:

PURGING DATA

SAMPLING DATA

REMARKS:

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C KENA LANDFILL	SITE LOCATION: 3333 KENA RD. BRADENTON
WELL NO: MW-10A	SAMPLE ID: DATE: 11-17-22

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Howard Jones / EPA H. Davis						SAMPLER(S) SIGNATURE(S) <i>[Signature]</i>		SAMPLING INITIATED AT 1/21/08	SAMPLING ENDED AT 1/22/08	
PUMP OR TUBING DEPTH IN WELL (feet): 10'				TUBING MATERIAL CODE: LDPE/S	FIELD-FILTERED: Y N Filtration Equipment Type:			FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
5-IDA	1	GE	250 mL	HNO3	Ø	<2	6020 As	APP	<300	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+ 5$ NTU or $\pm 10\%$ (whichever is greater)

January 16, 2023

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill (Existing)
Pace Project No.: 35768875

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35768875001	GW-4	Water	12/23/22 12:12	12/23/22 15:35
35768875002	GW-9	Water	12/23/22 13:02	12/23/22 15:35
35768875003	GW-20	Water	12/23/22 14:03	12/23/22 15:35
35768875004	Trip Blank 6	Water	12/23/22 00:01	12/23/22 15:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35768875001	GW-4	EPA 8011	SCL	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C 2011	SKN	1	PASI-N
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35768875002	GW-9	EPA 8011	SCL	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C 2011	SKN	1	PASI-N
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35768875003	GW-20	EPA 8011	SCL	2	PASI-O
		EPA 6010	AME	12	PASI-O
		EPA 6020	EAP	5	PASI-O
		EPA 7470	JNK	1	PASI-O
		EPA 8260	AST	48	PASI-O
		SM 2540C 2011	SKN	1	PASI-N
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	RMB	1	PASI-O
		EPA 353.2	KW1	1	PASI-O
35768875004	Trip Blank 6	EPA 8011	SCL	2	PASI-O

PASI-N = Pace Analytical Services - New Orleans

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

4 samples were analyzed for EPA 8011 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 7470

Description: 7470 Mercury

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 7470 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 8260 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 882822

J(v1): The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 4856333)
 - Styrene
 - Trichlorofluoromethane
- DUP (Lab ID: 4856335)
 - Styrene
 - Trichlorofluoromethane
- GW-20 (Lab ID: 35768875003)
 - Styrene
 - Trichlorofluoromethane
- GW-4 (Lab ID: 35768875001)
 - Styrene
 - Trichlorofluoromethane
- GW-9 (Lab ID: 35768875002)
 - Styrene
 - Trichlorofluoromethane
- LCS (Lab ID: 4856334)
 - Styrene
 - Trichlorofluoromethane
- MS (Lab ID: 4856336)
 - Styrene
 - Trichlorofluoromethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 8260

Description: 8260 MSV

Client: Manatee County Solid Waste

Date: January 16, 2023

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: SM 2540C 2011

Description: 2540C Total Dissolved Solids

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for SM 2540C 2011 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ unpres

Client: Manatee County Solid Waste

Date: January 16, 2023

General Information:

3 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-4		Lab ID: 35768875001		Collected: 12/23/22 12:12		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.71	Std. Units			1		12/23/22 12:12		
Field Temperature	21.7	deg C			1		12/23/22 12:12		
Field Specific Conductance	450.1	umhos/cm			1		12/23/22 12:12		
Oxygen, Dissolved	1.80	mg/L			1		12/23/22 12:12	7782-44-7	
Turbidity	3.47	NTU			1		12/23/22 12:12		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	12/24/22 07:52	12/30/22 00:06	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	12/24/22 07:52	12/30/22 00:06	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	14.6	ug/L	10.0	0.84	1	12/27/22 15:51	12/28/22 07:40	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	12/27/22 15:51	12/28/22 07:40	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	12/27/22 15:51	12/28/22 07:40	7440-43-9	
Chromium	2.3 I	ug/L	5.0	1.7	1	12/27/22 15:51	12/28/22 07:40	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	12/27/22 15:51	12/28/22 07:40	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	12/27/22 15:51	12/28/22 07:40	7440-50-8	
Iron	1810	ug/L	40.0	25.0	1	12/27/22 15:51	12/28/22 07:40	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:40	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:40	7440-22-4	
Sodium	4.3	mg/L	2.0	0.54	1	12/27/22 15:51	12/28/22 07:40	7440-23-5	
Vanadium	7.1 I	ug/L	10.0	1.0	1	12/27/22 15:51	12/28/22 07:40	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	12/27/22 15:51	12/28/22 07:40	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 17:52	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 17:52	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	12/27/22 15:51	12/28/22 17:52	7439-92-1	
Selenium	1.5 I	ug/L	2.0	0.20	1	12/27/22 15:51	12/28/22 17:52	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	12/27/22 15:51	12/28/22 17:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	01/04/23 10:00	01/04/23 15:02	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		12/29/22 04:57	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		12/29/22 04:57	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 04:57	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		12/29/22 04:57	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-4 **Lab ID: 35768875001** Collected: 12/23/22 12:12 Received: 12/23/22 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		12/29/22 04:57	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		12/29/22 04:57	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		12/29/22 04:57	74-83-9	
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		12/29/22 04:57	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		12/29/22 04:57	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		12/29/22 04:57	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		12/29/22 04:57	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		12/29/22 04:57	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		12/29/22 04:57	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		12/29/22 04:57	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		12/29/22 04:57	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		12/29/22 04:57	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		12/29/22 04:57	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		12/29/22 04:57	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		12/29/22 04:57	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		12/29/22 04:57	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		12/29/22 04:57	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		12/29/22 04:57	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		12/29/22 04:57	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		12/29/22 04:57	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		12/29/22 04:57	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		12/29/22 04:57	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		12/29/22 04:57	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 04:57	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		12/29/22 04:57	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		12/29/22 04:57	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		12/29/22 04:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		12/29/22 04:57	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		12/29/22 04:57	100-42-5	J(v1)
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		12/29/22 04:57	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		12/29/22 04:57	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		12/29/22 04:57	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		12/29/22 04:57	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 04:57	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 04:57	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		12/29/22 04:57	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		12/29/22 04:57	75-69-4	J(v1)
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		12/29/22 04:57	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		12/29/22 04:57	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		12/29/22 04:57	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		12/29/22 04:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/29/22 04:57	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		12/29/22 04:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/29/22 04:57	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-4		Lab ID: 35768875001		Collected: 12/23/22 12:12		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C 2011 Pace Analytical Services - New Orleans							
Total Dissolved Solids	230	mg/L	10.0	10.0	1		12/29/22 16:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	9.2	mg/L	5.0	2.5	1		01/03/23 18:11	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.68	mg/L	0.050	0.035	1		01/05/23 19:02	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		12/24/22 15:43	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-9 Lab ID: 35768875002 Collected: 12/23/22 13:02 Received: 12/23/22 15:35 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.84	Std. Units			1		12/23/22 13:02		
Field Temperature	21.0	deg C			1		12/23/22 13:02		
Field Specific Conductance	380.1	umhos/cm			1		12/23/22 13:02		
Oxygen, Dissolved	2.08	mg/L			1		12/23/22 13:02	7782-44-7	
Turbidity	8.40	NTU			1		12/23/22 13:02		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	12/24/22 07:52	12/30/22 00:19	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	12/24/22 07:52	12/30/22 00:19	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Barium	11.6	ug/L	10.0	0.84	1	12/27/22 15:51	12/28/22 07:50	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	12/27/22 15:51	12/28/22 07:50	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	12/27/22 15:51	12/28/22 07:50	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	12/27/22 15:51	12/28/22 07:50	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	12/27/22 15:51	12/28/22 07:50	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	12/27/22 15:51	12/28/22 07:50	7440-50-8	
Iron	459	ug/L	40.0	25.0	1	12/27/22 15:51	12/28/22 07:50	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:50	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:50	7440-22-4	
Sodium	3.1	mg/L	2.0	0.54	1	12/27/22 15:51	12/28/22 07:50	7440-23-5	
Vanadium	8.9 I	ug/L	10.0	1.0	1	12/27/22 15:51	12/28/22 07:50	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	12/27/22 15:51	12/28/22 07:50	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 17:54	7440-36-0	
Arsenic	1.4	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 17:54	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	12/27/22 15:51	12/28/22 17:54	7439-92-1	
Selenium	0.57 I	ug/L	2.0	0.20	1	12/27/22 15:51	12/28/22 17:54	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	12/27/22 15:51	12/28/22 17:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	01/04/23 10:00	01/04/23 15:04	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Acetone	99.2	ug/L	25.0	8.7	1		12/29/22 05:20	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		12/29/22 05:20	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 05:20	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		12/29/22 05:20	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-9		Lab ID: 35768875002		Collected: 12/23/22 13:02		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach							
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		12/29/22 05:20	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		12/29/22 05:20	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		12/29/22 05:20	74-83-9	
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		12/29/22 05:20	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		12/29/22 05:20	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		12/29/22 05:20	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		12/29/22 05:20	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		12/29/22 05:20	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		12/29/22 05:20	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		12/29/22 05:20	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		12/29/22 05:20	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		12/29/22 05:20	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		12/29/22 05:20	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		12/29/22 05:20	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		12/29/22 05:20	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		12/29/22 05:20	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		12/29/22 05:20	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		12/29/22 05:20	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		12/29/22 05:20	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		12/29/22 05:20	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		12/29/22 05:20	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		12/29/22 05:20	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		12/29/22 05:20	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 05:20	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		12/29/22 05:20	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		12/29/22 05:20	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		12/29/22 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		12/29/22 05:20	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		12/29/22 05:20	100-42-5	J(v1)
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		12/29/22 05:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		12/29/22 05:20	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		12/29/22 05:20	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		12/29/22 05:20	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 05:20	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 05:20	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		12/29/22 05:20	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		12/29/22 05:20	75-69-4	J(v1)
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		12/29/22 05:20	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		12/29/22 05:20	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		12/29/22 05:20	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		12/29/22 05:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/29/22 05:20	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		12/29/22 05:20	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/29/22 05:20	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-9		Lab ID: 35768875002		Collected: 12/23/22 13:02		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C 2011 Pace Analytical Services - New Orleans							
Total Dissolved Solids	185	mg/L	10.0	10.0	1		12/29/22 16:49		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	5.1	mg/L	5.0	2.5	1		01/03/23 19:15	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	1.4	mg/L	0.050	0.035	1		01/05/23 19:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		12/24/22 16:08	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-20		Lab ID: 35768875003		Collected: 12/23/22 14:03		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.63	Std. Units			1		12/23/22 14:03		
Field Temperature	21.6	deg C			1		12/23/22 14:03		
Field Specific Conductance	425.4	umhos/cm			1		12/23/22 14:03		
Oxygen, Dissolved	2.58	mg/L			1		12/23/22 14:03	7782-44-7	
Turbidity	3.97	NTU			1		12/23/22 14:03		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	12/24/22 07:52	12/30/22 00:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	12/24/22 07:52	12/30/22 00:33	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Barium	12.2	ug/L	10.0	0.84	1	12/27/22 15:51	12/28/22 07:54	7440-39-3	
Beryllium	0.17 U	ug/L	4.0	0.17	1	12/27/22 15:51	12/28/22 07:54	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	12/27/22 15:51	12/28/22 07:54	7440-43-9	
Chromium	1.9 I	ug/L	5.0	1.7	1	12/27/22 15:51	12/28/22 07:54	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	12/27/22 15:51	12/28/22 07:54	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	12/27/22 15:51	12/28/22 07:54	7440-50-8	
Iron	744	ug/L	40.0	25.0	1	12/27/22 15:51	12/28/22 07:54	7439-89-6	
Nickel	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:54	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	12/27/22 15:51	12/28/22 07:54	7440-22-4	
Sodium	5.0	mg/L	2.0	0.54	1	12/27/22 15:51	12/28/22 07:54	7440-23-5	
Vanadium	3.1 I	ug/L	10.0	1.0	1	12/27/22 15:51	12/28/22 07:54	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	12/27/22 15:51	12/28/22 07:54	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach									
Antimony	0.50 U	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 18:04	7440-36-0	
Arsenic	6.6	ug/L	1.0	0.50	1	12/27/22 15:51	12/28/22 18:04	7440-38-2	
Lead	0.22 U	ug/L	1.0	0.22	1	12/27/22 15:51	12/28/22 18:04	7439-92-1	
Selenium	0.72 I	ug/L	2.0	0.20	1	12/27/22 15:51	12/28/22 18:04	7782-49-2	
Thallium	0.11 U	ug/L	1.0	0.11	1	12/27/22 15:51	12/28/22 18:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Ormond Beach									
Mercury	0.090 U	ug/L	0.20	0.090	1	01/04/23 10:00	01/04/23 15:06	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach									
Acetone	8.7 U	ug/L	25.0	8.7	1		12/29/22 06:07	67-64-1	
Acrylonitrile	3.7 U	ug/L	20.0	3.7	1		12/29/22 06:07	107-13-1	
Benzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 06:07	71-43-2	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		12/29/22 06:07	74-97-5	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-20 **Lab ID:** 35768875003 **Collected:** 12/23/22 14:03 **Received:** 12/23/22 15:35 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	0.19 U	ug/L	1.0	0.19	1		12/29/22 06:07	75-27-4	
Bromoform	0.48 U	ug/L	3.0	0.48	1		12/29/22 06:07	75-25-2	
Bromomethane	3.9 U	ug/L	10.0	3.9	1		12/29/22 06:07	74-83-9	
2-Butanone (MEK)	6.7 U	ug/L	50.0	6.7	1		12/29/22 06:07	78-93-3	
Carbon disulfide	1.8 U	ug/L	10.0	1.8	1		12/29/22 06:07	75-15-0	
Carbon tetrachloride	0.44 U	ug/L	3.0	0.44	1		12/29/22 06:07	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		12/29/22 06:07	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		12/29/22 06:07	75-00-3	
Chloroform	0.56 U	ug/L	1.0	0.56	1		12/29/22 06:07	67-66-3	
Chloromethane	0.43 U	ug/L	1.0	0.43	1		12/29/22 06:07	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		12/29/22 06:07	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		12/29/22 06:07	74-95-3	
1,2-Dichlorobenzene	0.60 U	ug/L	1.0	0.60	1		12/29/22 06:07	95-50-1	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		12/29/22 06:07	106-46-7	
trans-1,4-Dichloro-2-butene	2.5 U	ug/L	10.0	2.5	1		12/29/22 06:07	110-57-6	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		12/29/22 06:07	75-34-3	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		12/29/22 06:07	107-06-2	
1,1-Dichloroethene	0.59 U	ug/L	1.0	0.59	1		12/29/22 06:07	75-35-4	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		12/29/22 06:07	156-59-2	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		12/29/22 06:07	156-60-5	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		12/29/22 06:07	78-87-5	
cis-1,3-Dichloropropene	0.17 U	ug/L	1.0	0.17	1		12/29/22 06:07	10061-01-5	
trans-1,3-Dichloropropene	0.37 U	ug/L	1.0	0.37	1		12/29/22 06:07	10061-02-6	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		12/29/22 06:07	100-41-4	
2-Hexanone	3.2 U	ug/L	25.0	3.2	1		12/29/22 06:07	591-78-6	
Iodomethane	3.6 U	ug/L	10.0	3.6	1		12/29/22 06:07	74-88-4	
Methylene Chloride	1.7 U	ug/L	5.0	1.7	1		12/29/22 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.5 U	ug/L	25.0	7.5	1		12/29/22 06:07	108-10-1	
Styrene	0.26 U	ug/L	1.0	0.26	1		12/29/22 06:07	100-42-5	J(v1)
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		12/29/22 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	0.59 U	ug/L	1.0	0.59	1		12/29/22 06:07	79-34-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		12/29/22 06:07	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		12/29/22 06:07	108-88-3	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 06:07	71-55-6	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		12/29/22 06:07	79-00-5	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		12/29/22 06:07	79-01-6	
Trichlorofluoromethane	0.72 U	ug/L	1.0	0.72	1		12/29/22 06:07	75-69-4	J(v1)
1,2,3-Trichloropropane	0.53 U	ug/L	2.0	0.53	1		12/29/22 06:07	96-18-4	
Vinyl acetate	1.8 U	ug/L	10.0	1.8	1		12/29/22 06:07	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		12/29/22 06:07	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		12/29/22 06:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/29/22 06:07	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		12/29/22 06:07	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/29/22 06:07	2199-69-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: GW-20		Lab ID: 35768875003		Collected: 12/23/22 14:03		Received: 12/23/22 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C 2011 Pace Analytical Services - New Orleans							
Total Dissolved Solids	230	mg/L	10.0	10.0	1		12/29/22 16:49		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	8.3	mg/L	5.0	2.5	1		01/03/23 19:37	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach							
Nitrogen, Ammonia	0.33	mg/L	0.050	0.035	1		01/05/23 19:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		12/24/22 16:09	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Sample: Trip Blank 6		Lab ID: 35768875004	Collected: 12/23/22 00:01	Received: 12/23/22 15:35	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Ormond Beach							
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	12/24/22 07:52	12/30/22 00:45	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	12/24/22 07:52	12/30/22 00:45	106-93-4	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 883775

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory:

Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4860424

Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.090 U	0.20	0.090	01/04/23 14:34	

LABORATORY CONTROL SAMPLE: 4860425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4860426 4860427

Parameter	Units	35767045001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.090 U	2	2	2.0	2.0	98	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch:	882454	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4854828 Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	12/29/22 03:48	
Beryllium	ug/L	0.17 U	4.0	0.17	12/29/22 03:48	
Cadmium	ug/L	0.33 U	1.0	0.33	12/29/22 03:48	
Chromium	ug/L	1.7 U	5.0	1.7	12/29/22 03:48	
Cobalt	ug/L	0.96 U	10.0	0.96	12/29/22 03:48	
Copper	ug/L	2.6 U	5.0	2.6	12/29/22 03:48	
Iron	ug/L	25.0 U	40.0	25.0	12/29/22 03:48	
Nickel	ug/L	1.0 U	5.0	1.0	12/29/22 03:48	
Silver	ug/L	1.0 U	5.0	1.0	12/29/22 03:48	
Sodium	mg/L	0.54 U	2.0	0.54	12/29/22 03:48	
Vanadium	ug/L	1.0 U	10.0	1.0	12/29/22 03:48	
Zinc	ug/L	11.0 U	20.0	11.0	12/29/22 03:48	

LABORATORY CONTROL SAMPLE: 4854829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	276	110	80-120	
Beryllium	ug/L	25	25.3	101	80-120	
Cadmium	ug/L	25	25.7	103	80-120	
Chromium	ug/L	250	263	105	80-120	
Cobalt	ug/L	250	260	104	80-120	
Copper	ug/L	250	259	103	80-120	
Iron	ug/L	2500	2580	103	80-120	
Nickel	ug/L	250	263	105	80-120	
Silver	ug/L	25	26.4	106	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	259	104	80-120	
Zinc	ug/L	1250	1280	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4854830 4854831

Parameter	Units	35768429018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	171	250	250	444	445	109	110	75-125	0	20	
Beryllium	ug/L	0.17 U	25	25	25.9	26.1	104	104	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.2	25.3	101	101	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	262	263	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4854830 4854831												
Parameter	Units	35768429018		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	U	Spike Conc.	Spike Conc.						RPD	
Cobalt	ug/L	0.96	U	250	250	257	258	103	103	75-125	0	20
Copper	ug/L	2.6	U	250	250	267	268	106	106	75-125	0	20
Iron	ug/L	25.0	U	2500	2500	2570	2590	102	103	75-125	1	20
Nickel	ug/L	8.7		250	250	267	268	103	104	75-125	0	20
Silver	ug/L	1.0	U	25	25	26.6	26.6	106	106	75-125	0	20
Sodium	mg/L	52000		12.5	12.5	65.9	65.4	111	107	75-125	1	20
Vanadium	ug/L	1.0	U	250	250	262	263	104	105	75-125	0	20
Zinc	ug/L	11.0	U	1250	1250	1260	1270	100	102	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch:	882456	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4854845 Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/28/22 17:46	
Arsenic	ug/L	0.50 U	1.0	0.50	12/28/22 17:46	
Lead	ug/L	0.22 U	1.0	0.22	12/28/22 17:46	
Selenium	ug/L	0.20 U	2.0	0.20	12/28/22 17:46	
Thallium	ug/L	0.11 U	1.0	0.11	12/28/22 17:46	

LABORATORY CONTROL SAMPLE: 4854846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.4	97	80-120	
Arsenic	ug/L	50	52.6	105	80-120	
Lead	ug/L	50	54.1	108	80-120	
Selenium	ug/L	50	53.1	106	80-120	
Thallium	ug/L	50	53.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4854847 4854848

Parameter	Units	35768875002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	48.3	48.9	96	98	75-125	1	20	
Arsenic	ug/L	1.4	50	50	52.7	53.4	103	104	75-125	1	20	
Lead	ug/L	0.22 U	50	50	52.5	53.2	105	106	75-125	1	20	
Selenium	ug/L	0.57 I	50	50	45.9	46.3	91	91	75-125	1	20	
Thallium	ug/L	0.11 U	50	50	52.6	53.0	105	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 882822

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4856333

Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	12/28/22 22:21	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/28/22 22:21	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	12/28/22 22:21	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	12/28/22 22:21	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	12/28/22 22:21	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	12/28/22 22:21	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	12/28/22 22:21	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	12/28/22 22:21	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	12/28/22 22:21	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	12/28/22 22:21	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	12/28/22 22:21	
2-Butanone (MEK)	ug/L	6.7 U	50.0	6.7	12/28/22 22:21	
2-Hexanone	ug/L	3.2 U	25.0	3.2	12/28/22 22:21	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	12/28/22 22:21	
Acetone	ug/L	8.7 U	25.0	8.7	12/28/22 22:21	
Acrylonitrile	ug/L	3.7 U	20.0	3.7	12/28/22 22:21	
Benzene	ug/L	0.30 U	1.0	0.30	12/28/22 22:21	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	12/28/22 22:21	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	12/28/22 22:21	
Bromoform	ug/L	0.48 U	3.0	0.48	12/28/22 22:21	
Bromomethane	ug/L	3.9 U	10.0	3.9	12/28/22 22:21	
Carbon disulfide	ug/L	1.8 U	10.0	1.8	12/28/22 22:21	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	12/28/22 22:21	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	12/28/22 22:21	
Chloroethane	ug/L	3.7 U	10.0	3.7	12/28/22 22:21	
Chloroform	ug/L	0.56 U	1.0	0.56	12/28/22 22:21	
Chloromethane	ug/L	0.43 U	1.0	0.43	12/28/22 22:21	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	12/28/22 22:21	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	12/28/22 22:21	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	12/28/22 22:21	
Dibromomethane	ug/L	0.68 U	2.0	0.68	12/28/22 22:21	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	12/28/22 22:21	
Iodomethane	ug/L	3.6 U	10.0	3.6	12/28/22 22:21	
Methylene Chloride	ug/L	1.7 U	5.0	1.7	12/28/22 22:21	
Styrene	ug/L	0.26 U	1.0	0.26	12/28/22 22:21	J(v1)
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	12/28/22 22:21	
Toluene	ug/L	0.33 U	1.0	0.33	12/28/22 22:21	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	12/28/22 22:21	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	12/28/22 22:21	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	12/28/22 22:21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

METHOD BLANK: 4856333

Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.36 U	1.0	0.36	12/28/22 22:21	J(v1)
Trichlorofluoromethane	ug/L	0.72 U	1.0	0.72	12/28/22 22:21	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	12/28/22 22:21	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	12/28/22 22:21	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	12/28/22 22:21	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130		12/28/22 22:21	
4-Bromofluorobenzene (S)	%	100	70-130		12/28/22 22:21	
Toluene-d8 (S)	%	100	70-130		12/28/22 22:21	

LABORATORY CONTROL SAMPLE: 4856334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	70-130	
1,1,1-Trichloroethane	ug/L	20	21.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	68-125	
1,1,2-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	21.3	107	66-133	
1,2,3-Trichloropropane	ug/L	20	21.7	109	62-127	
1,2-Dichlorobenzene	ug/L	20	22.1	110	70-130	
1,2-Dichloroethane	ug/L	20	20.4	102	70-130	
1,2-Dichloropropane	ug/L	20	20.8	104	70-130	
1,4-Dichlorobenzene	ug/L	20	22.1	110	70-130	
2-Butanone (MEK)	ug/L	100	103	103	47-143	
2-Hexanone	ug/L	100	105	105	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	57-132	
Acetone	ug/L	100	98.8	99	46-148	
Acrylonitrile	ug/L	100	114	114	60-143	
Benzene	ug/L	20	20.8	104	70-130	
Bromochloromethane	ug/L	20	21.2	106	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.4	107	49-126	
Bromomethane	ug/L	20	21.4	107	10-165	
Carbon disulfide	ug/L	20	19.1	95	60-141	
Carbon tetrachloride	ug/L	20	22.5	113	63-126	
Chlorobenzene	ug/L	20	21.1	106	70-130	
Chloroethane	ug/L	20	23.6	118	71-142	
Chloroform	ug/L	20	19.9	100	70-130	
Chloromethane	ug/L	20	20.4	102	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.1	105	70-130	
Dibromochloromethane	ug/L	20	20.2	101	62-118	
Dibromomethane	ug/L	20	21.3	106	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

LABORATORY CONTROL SAMPLE: 4856334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	20	19.6	98	10-164	
Methylene Chloride	ug/L	20	19.1	95	65-136	
Styrene	ug/L	20	24.2	121	70-130	J(v1)
Tetrachloroethene	ug/L	20	22.6	113	64-134	
Toluene	ug/L	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	
trans-1,3-Dichloropropene	ug/L	20	21.4	107	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	21.1	105	42-129	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	24.7	124	65-135	J(v1)
Vinyl acetate	ug/L	20	23.4	117	60-144	
Vinyl chloride	ug/L	20	22.8	114	68-131	
Xylene (Total)	ug/L	60	63.6	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 4856336

Parameter	Units	35768875003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	18.9	95	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	19.5	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	17.5	87	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	17.5	88	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	18.8	94	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	19.5	98	62-127	
1,2-Dichlorobenzene	ug/L	0.60 U	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	17.8	89	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	16.9	84	70-130	
2-Butanone (MEK)	ug/L	6.7 U	100	77.9	78	47-143	
2-Hexanone	ug/L	3.2 U	100	87.2	87	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	88.2	88	57-132	
Acetone	ug/L	8.7 U	100	71.4	66	46-148	
Acrylonitrile	ug/L	3.7 U	100	92.4	92	60-143	
Benzene	ug/L	0.30 U	20	18.6	93	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.7	94	70-130	
Bromodichloromethane	ug/L	0.19 U	20	17.3	86	70-130	
Bromoform	ug/L	0.48 U	20	17.4	87	49-126	
Bromomethane	ug/L	3.9 U	20	6.9	35	10-165	
Carbon disulfide	ug/L	1.8 U	20	15.8	79	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	20.3	102	63-126	
Chlorobenzene	ug/L	0.35 U	20	18.6	93	70-130	
Chloroethane	ug/L	3.7 U	20	22.0	110	71-142	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

MATRIX SPIKE SAMPLE: 4856336		35768875003	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Chloroform	ug/L	0.56 U	20	17.0	85	70-130	
Chloromethane	ug/L	0.43 U	20	19.4	97	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	18.3	91	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	17.2	86	70-130	
Dibromochloromethane	ug/L	0.45 U	20	17.3	87	62-118	
Dibromomethane	ug/L	0.68 U	20	18.3	91	70-130	
Ethylbenzene	ug/L	0.30 U	20	18.2	91	70-130	
Iodomethane	ug/L	3.6 U	20	4.8 I	24	10-164	
Methylene Chloride	ug/L	1.7 U	20	16.6	83	65-136	
Styrene	ug/L	0.26 U	20	20.2	101	70-130 J(v1)	
Tetrachloroethene	ug/L	0.38 U	20	18.0	90	64-134	
Toluene	ug/L	0.33 U	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	18.0	90	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	17.2	86	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	11.1	55	42-129	
Trichloroethene	ug/L	0.36 U	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	0.72 U	20	26.3	132	65-135 J(v1)	
Vinyl acetate	ug/L	1.8 U	20	19.4	97	60-144	
Vinyl chloride	ug/L	0.39 U	20	22.9	115	68-131	
Xylene (Total)	ug/L	2.1 U	60	53.8	90	70-130	
1,2-Dichlorobenzene-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 4856335

Parameter	Units	35768875002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.7 U	6.7 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	99.2	137	32	40	
Acrylonitrile	ug/L	3.7 U	3.7 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

SAMPLE DUPLICATE: 4856335

Parameter	Units	35768875002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	0.48 U	0.48 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.43 U	0.43 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	3.6 U	3.6 U		40	
Methylene Chloride	ug/L	1.7 U	1.7 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	J(v1)
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.72 U	0.72 U		40	J(v1)
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	100	99		40	
4-Bromofluorobenzene (S)	%	103	102		40	
Toluene-d8 (S)	%	100	99		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch:	882159	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003, 35768875004

METHOD BLANK: 4854029 Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003, 35768875004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	12/29/22 21:43	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	12/29/22 21:43	

LABORATORY CONTROL SAMPLE: 4854030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.34	137	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.34	135	60-140	

MATRIX SPIKE SAMPLE: 4854031

Parameter	Units	35768566012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.25	0.28	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.25	0.27	107	60-140	

SAMPLE DUPLICATE: 4854032

Parameter	Units	35768871001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.0064 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.0075 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch:	275020	Analysis Method:	SM 2540C 2011
QC Batch Method:	SM 2540C 2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 1317368 Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	10.0 U	10.0	10.0	12/29/22 16:46	

LABORATORY CONTROL SAMPLE: 1317369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	100	92.0	92	80-120	

SAMPLE DUPLICATE: 1317370

Parameter	Units	35768860005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1470	1300	12	20	

SAMPLE DUPLICATE: 1317371

Parameter	Units	35768870001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	170	205	19	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 883429

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory:

Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4858895

Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/03/23 17:28	

LABORATORY CONTROL SAMPLE: 4858896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4861163 4861164

Parameter	Units	35768875001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.2	50	50	57.8	57.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4861165 4861166

Parameter	Units	35768889011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	33.7	50	50	87.1	86.3	107	105	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 884207

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Laboratory:

Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001, 35768875002, 35768875003

METHOD BLANK: 4862926

Matrix: Water

Associated Lab Samples: 35768875001, 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	01/05/23 18:50	

LABORATORY CONTROL SAMPLE: 4862927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4862929 4862928

Parameter	Units	35768836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.26	1	1	1.2	1.2	96	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4862930 4862931

Parameter	Units	35768889004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	6.8	1	1	7.8	7.8	93	95	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 882228

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875001

METHOD BLANK: 4854137

Matrix: Water

Associated Lab Samples: 35768875001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	12/24/22 16:51	

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QUALITY CONTROL DATA

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

QC Batch: 882253

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35768875002, 35768875003

METHOD BLANK: 4854188

Matrix: Water

Associated Lab Samples: 35768875002, 35768875003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	12/24/22 16:52	

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

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QUALIFIERS

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(v1) The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill (Existing)

Pace Project No.: 35768875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35768875001	GW-4				
35768875002	GW-9				
35768875003	GW-20				
35768875001	GW-4	EPA 8011	882159	EPA 8011	882361
35768875002	GW-9	EPA 8011	882159	EPA 8011	882361
35768875003	GW-20	EPA 8011	882159	EPA 8011	882361
35768875004	Trip Blank 6	EPA 8011	882159	EPA 8011	882361
35768875001	GW-4	EPA 3010	882454	EPA 6010	882495
35768875002	GW-9	EPA 3010	882454	EPA 6010	882495
35768875003	GW-20	EPA 3010	882454	EPA 6010	882495
35768875001	GW-4	EPA 3010	882456	EPA 6020	882496
35768875002	GW-9	EPA 3010	882456	EPA 6020	882496
35768875003	GW-20	EPA 3010	882456	EPA 6020	882496
35768875001	GW-4	EPA 7470	883775	EPA 7470	883845
35768875002	GW-9	EPA 7470	883775	EPA 7470	883845
35768875003	GW-20	EPA 7470	883775	EPA 7470	883845
35768875001	GW-4	EPA 8260	882822		
35768875002	GW-9	EPA 8260	882822		
35768875003	GW-20	EPA 8260	882822		
35768875001	GW-4	SM 2540C 2011	275020		
35768875002	GW-9	SM 2540C 2011	275020		
35768875003	GW-20	SM 2540C 2011	275020		
35768875001	GW-4	EPA 300.0	883429		
35768875002	GW-9	EPA 300.0	883429		
35768875003	GW-20	EPA 300.0	883429		
35768875001	GW-4	EPA 350.1	884207		
35768875002	GW-9	EPA 350.1	884207		
35768875003	GW-20	EPA 350.1	884207		
35768875001	GW-4	EPA 353.2	882228		
35768875002	GW-9	EPA 353.2	882253		
35768875003	GW-20	EPA 353.2	882253		

REPORT OF LABORATORY ANALYSIS

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MO#: 35768875

35768875

Section A: Project Information		Section B: Client Information		Section C: Invoice Information	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Manatee County Landfill	Report To:	Bob Bennett	Attention:	
Address:	8333 Lena Road	Copy To:		Company Name:	
Location:	Bradenton, FL 34211			Address:	
Email:	bob.bennett@mymanatee.org	Purchase Order #:		Pace Quote:	
Phone:	(941) 746-5543	Fax:		Pace Project Manager:	carneion.meynardi@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	8100 Line 1
				Regulatory Agency	
				State / Location	
				FL	

[illegible]

ADDITIONAL COMMENTS						REMOVED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS					
FAC ID: 44795; LENA RD COUNTY LF Field Data: Static Water Level Before Purge. Observation						J. C. DODS / FINE & BAKER		12/23/2012	1535	C. Smith / C		12/23/2012	1535	37	Y	N	Y		
SAMPLER NAME AND SIGNATURE						PRINT Name of SAMPLER		SIGNATURE OF SAMPLER		DATE Signed				TEMP In C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
J. C. DODS						J. C. DODS		[Signature]		12-23-2012									



Sample Condition Upon Receipt Form (SCUR)

WO#: 35768875

Project #
Project Manager:
Client:

PM: CEM Due Date: 01/10/23
CLIENT: MANCOU-SW

Date and Initials of person:
Examining contents: EC 12-23-22
Label:
Deliver:
pH:

Thermometer Used: T202

Date: 12-23-22

Time: 1535

Initials: EC

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 3.5 (Visual) +0.2 (Correction Factor) 3.7 (Actual)

☒ Samples on ice, cooling process has begun

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☒ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Comments/ Resolution (use back for additional comments):

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: MC KENA Landfill		SITE LOCATION: 3333 KENA RD. Bradenton	
WELL NO: GW-20	SAMPLE ID: GW-20	DATE: 12-23-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: 8.50 feet to 23.50 feet	STATIC DEPTH TO WATER (feet)	10.40	PURGE PUMP TYPE OR BAILER:	PS	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (23.50 \text{ feet} - 10.40 \text{ feet}) \times 0.16 \text{ gallons/foot} = 2.096 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	14'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	14	PURGING INITIATED AT:	1340	PURGING ENDED AT:	1402	TOTAL VOLUME PURGED (gallons):	330

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☐		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y ☐ N ☐				TUBING Y ☐ N (replaced) ☐			DUPLICATE: Y ☐ N ☐			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
20	1	SE	1L	COOL	0	6.6	C1, R23, 105		ARC	<300
↓	1	SE	250mL	HNO3	↓	<2	107, 105, 105		↓	↓
↓	1	SE	250mL	H2SO4	↓	<2	N43		↓	↓
↓	2	CS	10mL	COOL	↓	6.6	CDB, 105, 105		↓	↓
↓	5	CS	10mL	HCL	↓	<2	8260		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: M.C. LENA LANDFILL SITE LOCATION: 3333 LENA RD, BRADENTON
WELL NO.: GW-9 SAMPLE ID: GW-9 DATE: 12-23-22

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/4 WELL SCREEN INTERVAL DEPTH: 8.80 feet TO WATER (feet): 8.80 PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = 20.06 feet - 8.80 feet X 0.16 gallons/foot = 1.80 gallons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING INITIATED AT: 1240 PURGING ENDED AT: 1301 TOTAL VOLUME PURGED (gallons): 3.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1253</u>	<u>1.95</u>	<u>1.95</u>	<u>0.15</u>	<u>14.0</u>	<u>6.83</u>	<u>21.1</u>	<u>376.2</u>	<u>2.24</u>	<u>7.65</u>	<u>CEM</u>	<u>none</u>
<u>1257</u>	<u>0.60</u>	<u>2.55</u>	<u>0.15</u>	<u>14.10</u>	<u>6.81</u>	<u>21.0</u>	<u>378.6</u>	<u>2.18</u>	<u>8.60</u>	<u>↓</u>	<u>↓</u>
<u>1301</u>	<u>0.60</u>	<u>3.15</u>	<u>0.15</u>	<u>14.10</u>	<u>6.84</u>	<u>21.0</u>	<u>380.1</u>	<u>2.08</u>	<u>8.40</u>	<u>↓</u>	<u>↓</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HOWARD BOGUS SAMPLER(S) SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 1301 SAMPLING ENDED AT: 1314
PUMP OR TUBING DEPTH IN WELL (feet): 15 TUBING MATERIAL CODE: HDPE/S FIELD-FILTERED: Y ☒ N ☐ FILTER SIZE: μm
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☒ N (replaced) ☐ Filtration Equipment Type: DUPLICATE: Y ☒ N ☐

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
0-9	1	PE	1L	COOL	0	6.8	DRUGS	APP	<300
	1	PE	250mL	HNO3	↓	<2	METALS	↓	↓
	1	PE	250mL	H2SO4	↓	<2	NH3	↓	↓
	3	CG	40mL	COOL	↓	6.8	DRUGS + DRUGS	↓	↓
	3	CG	40mL	HCL	↓	<2	S260	↓	↓
REMARKS:									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: MC KENA CF		SITE LOCATION: 3333 KENA RD BRADENTON	
WELL NO: GW-4	SAMPLE ID: GW-4	DATE: 12-23-22	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: HOWARD B. GUES				SAMPLER(S) SIGNATURE(S): H. B. GUES			SAMPLING INITIATED AT: 1212		SAMPLING ENDED AT: 1222	
PUMP OR TUBING DEPTH IN WELL (feet): 11				TUBING MATERIAL CODE: HDR/S		FIELD-FILTERED: Y ☒ N ☒		Filtration Equipment Type: _____		
FIELD DECONTAMINATION: PUMP Y ☒ N ☒				TUBING Y ☒ N ☒ (replaced)		DUPLICATE: Y ☒ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
4	1	SE	1L	COOL	0	6.7	CHROMIUM		APP	< 300
1	1	SE	250 mL	HNO3	↓	< 2	METALS		↓	↓
1	1	SE	250 mL	H2SO4	↓	< 2	NH3		↓	↓
2	2	CG	40 mL	Wd	↓	6.7	EDTA/TDS		↓	↓
3	3	CG	40 mL	HCl	↓	< 2	8260		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump;
 RFPP = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

January 04, 2023

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Rd Landfill-Recollect
Pace Project No.: 35769557

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: Randi Dunsworth, Manatee County Landfill
Shane Fischer, SCS Engineers
Whitney Rodriguez, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35769557001	GW-10A	Water	12/30/22 09:24	12/30/22 13:37
35769557002	GW-12	Water	12/30/22 10:33	12/30/22 13:37
35769557003	SW-2	Water	12/30/22 10:50	12/30/22 13:37
35769557004	GW-10	Water	12/30/22 09:54	12/30/22 13:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35769557001	GW-10A	EPA 6020	EAP	1	PASI-O
35769557002	GW-12	EPA 6020	EAP	1	PASI-O
35769557003	SW-2	EPA 6020	EAP	1	PASI-O
35769557004	GW-10	EPA 6010	AME	1	PASI-O
		EPA 6020	EAP	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Method: EPA 6010

Description: 6010 MET ICP

Client: Manatee County Solid Waste

Date: January 04, 2023

General Information:

1 sample was analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Method: EPA 6020

Description: 6020 MET ICPMS

Client: Manatee County Solid Waste

Date: January 04, 2023

General Information:

4 samples were analyzed for EPA 6020 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Sample: GW-10A **Lab ID: 35769557001** Collected: 12/30/22 09:24 Received: 12/30/22 13:37 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	7.14	Std. Units			1		12/30/22 09:24		
Field Temperature	19.4	deg C			1		12/30/22 09:24		
Field Specific Conductance	943	umhos/cm			1		12/30/22 09:24		
Oxygen, Dissolved	1.10	mg/L			1		12/30/22 09:24	7782-44-7	
Turbidity	6.25	NTU			1		12/30/22 09:24		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Arsenic	29.5	ug/L	1.0	0.50	1	01/03/23 04:59	01/03/23 11:46	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Sample: GW-12 **Lab ID: 35769557002** Collected: 12/30/22 10:33 Received: 12/30/22 13:37 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Ormond Beach									
Field pH	6.86	Std. Units			1		12/30/22 10:33		
Field Temperature	23.5	deg C			1		12/30/22 10:33		
Field Specific Conductance	671	umhos/cm			1		12/30/22 10:33		
Oxygen, Dissolved	0.68	mg/L			1		12/30/22 10:33	7782-44-7	
Turbidity	2.54	NTU			1		12/30/22 10:33		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Ormond Beach									
Arsenic	8.3	ug/L	1.0	0.50	1	01/03/23 04:59	01/03/23 11:48	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Sample: SW-2 **Lab ID: 35769557003** Collected: 12/30/22 10:50 Received: 12/30/22 13:37 Matrix: Water

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

Field Data

Analytical Method:

Pace Analytical Services - Ormond Beach

Field pH	6.85	Std. Units			1		12/30/22 10:50		
Field Temperature	17.4	deg C			1		12/30/22 10:50		
Field Specific Conductance	519.6	umhos/cm			1		12/30/22 10:50		
Oxygen, Dissolved	2.27	mg/L			1		12/30/22 10:50	7782-44-7	
Turbidity	17.3	NTU			1		12/30/22 10:50		

6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Arsenic	27.4	ug/L	1.0	0.50	1	01/03/23 04:59	01/03/23 11:51	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Sample: GW-10 **Lab ID: 35769557004** Collected: 12/30/22 09:54 Received: 12/30/22 13:37 Matrix: Water

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

Field Data

Analytical Method:

Pace Analytical Services - Ormond Beach

Field pH	7.01	Std. Units			1		12/30/22 09:54		
Field Temperature	21.4	deg C			1		12/30/22 09:54		
Field Specific Conductance	744	umhos/cm			1		12/30/22 09:54		
Oxygen, Dissolved	0.85	mg/L			1		12/30/22 09:54	7782-44-7	
Turbidity	8.54	NTU			1		12/30/22 09:54		

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Iron	13000	ug/L	40.0	25.0	1	01/03/23 04:59	01/04/23 00:07	7439-89-6	

6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 3010

Pace Analytical Services - Ormond Beach

Arsenic	20.1	ug/L	1.0	0.50	1	01/03/23 04:59	01/03/23 11:59	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

QC Batch: 883563

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35769557004

METHOD BLANK: 4859296

Matrix: Water

Associated Lab Samples: 35769557004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	25.0 U	40.0	25.0	01/03/23 22:48	

LABORATORY CONTROL SAMPLE: 4859297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2500	2550	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4859298 4859299

Parameter	Units	92643776002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	5600	2500	2500	8360	8130	110	101	75-125	3	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

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QUALITY CONTROL DATA

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

QC Batch: 883562

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35769557001, 35769557002, 35769557003, 35769557004

METHOD BLANK: 4859292

Matrix: Water

Associated Lab Samples: 35769557001, 35769557002, 35769557003, 35769557004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	0.50 U	1.0	0.50	01/03/23 11:41	

LABORATORY CONTROL SAMPLE: 4859293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4859294 4859295

Parameter	Units	35769557004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	20.1	50	50	68.0	68.4	96	97	75-125	1	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

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QUALIFIERS

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill-Recollect

Pace Project No.: 35769557

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35769557001	GW-10A				
35769557002	GW-12				
35769557003	SW-2				
35769557004	GW-10				
35769557004	GW-10	EPA 3010	883563	EPA 6010	883595
35769557001	GW-10A	EPA 3010	883562	EPA 6020	883597
35769557002	GW-12	EPA 3010	883562	EPA 6020	883597
35769557003	SW-2	EPA 3010	883562	EPA 6020	883597
35769557004	GW-10	EPA 3010	883562	EPA 6020	883597

REPORT OF LABORATORY ANALYSIS

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Pace

CHAIN-OF-CUSTODY / Analytical Request

MO#: 35769557



35769557

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

Section A: Client Information

Company: Manatee County Landfill
Address: 21 3333 Lena Road
Bridgeton, FL 34211
Email: bob.bennett@mymanatee.org
Phone: (941) 748-5543
Fax: (941) 748-5543
Requested Date: 12-01-2022

Section B: Project Information

Report to: Bob Bennett
Purchase Order #: 1202
Project Name: Lena Rd Landfill - Recollection
Project #: 1202

Section C: Invoice Information

Attention: Cameron Meyradie
Company Name: Pace Project Manager
Address: 38100 Line 1
Pace Quote: 38100 Line 1
Pace Project Manager: cameron.meyradie@pacelabs.com
Pace Profile #: 38100 Line 1

Regulatory Agency

State / Location

FL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Metals (As)	Metals (Fe, As)	Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)	
				DATE	TIME											
1	GW-10A	Drinking Water	DW	12/01/2022	10:24	1	1	X		X						
2	GW-12	Water	WT	12/01/2022	10:25	1	1	X		X						
3	SW-2	Waste Water	WW	12/01/2022	10:25	1	1	X		X						
4	GW-10	Product	P	12/01/2022	10:25	1	1	X		X						
5		Soil/Solid	SL	12/01/2022	10:25	1	1	X		X						
6		Oil	OL	12/01/2022	10:25	1	1	X		X						
7		Wipe	WP	12/01/2022	10:25	1	1	X		X						
8		Air	AR	12/01/2022	10:25	1	1	X		X						
9		Other	OT	12/01/2022	10:25	1	1	X		X						
10		Tissue	TS	12/01/2022	10:25	1	1	X		X						
11																
12																

ADDITIONAL COMMENTS

REQUISITIONED BY / AFFILIATION: J. GIBSON / PAC

DATE: 12/01/2022

TIME: 13:37

ACCEPTED BY / AFFILIATION: PAC

DATE: 12/01/2022

TIME: 13:37

TEMP in C: 12.0

Received on Ice (Y/N): Y

Custody Sealed (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE

PRINT NAME OF SAMPLER: J. GIBSON

SIGNATURE OF SAMPLER: J. GIBSON

DATE SIGNED: 12-01-22

WO#: 35769557

PM: CEM Due Date: 01/16/23
CLIENT: MANCOU-SW

Pace

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: EC 12-30-22
Label:
Deliver:
pH:

Thermometer Used: T202

Date: 12-30-22 Time: 1337 Initials: DS

State of Origin: FL

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 5.6 (Visual) +.02 (Correction Factor) 5.8 (Actual)

☒ Samples on ice, cooling process has begun

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Melted None

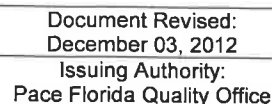
Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Comments/ Resolution (use back for additional comments):



SITE NAME: M. C. KENNA RD. LANDFILL		SITE LOCATION: 3233 KENNA RD. BRADENTON	
WELL NO: GW-12	SAMPLE ID: GW-12		DATE: 12-30-22

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1.315	WELL SCREEN INTERVAL DEPTH: (feet) - (feet)	9.77 - 19.77	STATIC DEPTH TO WATER (feet)	9.50	PURGE PUMP TYPE OR BAILER:	SP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 19.77 feet - 9.50 feet X 0.16 gallons/foot = 1.6432 gallons									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13'	PURGING INITIATED AT	1005	PURGING ENDED AT	1032	TOTAL VOLUME PURGED (gallons)	230

WELL CAPACITY (Gallons Per Foot):	0.75" = 0.02;	1" = 0.04;	1.25" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.65;	5" = 1.02;	6" = 1.47;	12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.):	1/8" = 0.0006;	3/16" = 0.0014;	1/4" = 0.0026;	5/16" = 0.004;	3/8" = 0.006;	1/2" = 0.010;	5/8" = 0.016		

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: HOWARD L. SUTHERS / H. SUTHERS			SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 1033	SAMPLING ENDED AT: 1036
PUMP OR TUBING DEPTH IN WELL (feet): 13		TUBING MATERIAL CODE: LDPE/S		FIELD-FILTERED: Y ☐ N ☒	FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y ☒ N ☐		TUBING Y ☒ N (replaced) ☐			DUPLICATE: Y ☐ N ☒	

REMARKS:

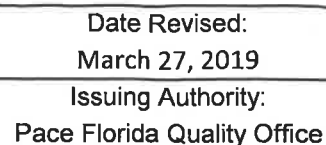
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) of 20



Form FD 9000-24

M.C. LENA'S LANDFILL		SITE LOCATION: 3333 LENA RD BRADENTON	
NO: GW-10	SAMPLE ID: GW-10	DATE: 12-30-22	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/4	WELL SCREEN INTERVAL DEPTH: 19.65 feet to 10.80 feet	STATIC DEPTH TO WATER (feet):	10.80	PURGE PUMP TYPE OR BAILER:	88	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= 19.65 \text{ feet} - 10.80 \text{ feet} \times 0.16 \text{ gallons/foot} = 1.414 \text{ gallons}$									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	14'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	16'	PURGING INITIATED AT:	0930	PURGING ENDED AT:	0953	TOTAL VOLUME PURGED (gallons):	230

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

[illegible]

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+ 5$ NTU or $\pm 10\%$ (whichever is greater) of 20