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WASTE CONNECTIONS
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31ST SEMI-ANNUAL WATER QUALITY MONITORING REPORT

J.E.D. Solid Waste Management Facility

Prepared for

Waste Connections of Osceola County, LLC
1501 Omni Way
St. Cloud, Florida 34773

Prepared by

Geosyntec Consultants, Inc.
50 S. Belcher Rd., Suite 116
Clearwater, FL 33765

Project FR3347B

February 11, 2020

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Project Number: FR3347B

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ACRONYMS AND ABBREVIATIONS

AEL	Advanced Environmental Laboratories
CCA	Chromated Copper Arsenate
CFR	Code of Federal Regulations
COC	Chain of Custody
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
ft BLS	Feet Below Land Surface
ft	Feet
GCTL	Groundwater Cleanup Target Level
in	Inches
JED	J.E.D. Solid Waste Management Facility
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
MPIS	Monitoring Plan Implementation Schedule
N	Nitrogen
NELAC	National Environmental Laboratory Accreditation Conference
NGVD	National Geodetic Vertical Datum of 1929
NTU	Nephelometric Turbidity Units
WCOC	Waste Connections of Osceola County, LLC
ORP	Oxidation Reduction Potential
PDWS	Primary Drinking Water Standards
PQL	Practical Quantitation Limit
PVC	Polyvinyl Chloride

RPD	Relative Percent Difference
SDWS	Secondary Drinking Water Standards
SU	pH Standard Units
TDS	Total Dissolved Solids
TRQW	Technical Reports on Water Quality
WC	Waste Connections

REGISTERED PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the field work and preparation of this document, in accordance with State Rules and Regulations. As a registered professional geologist, I certify that I am a qualified groundwater professional, as defined by the Florida State Board of Professional Geologists. All of the information and laboratory data in this document and in all of the attachments are true, accurate, complete, and in accordance with applicable state rules and regulations.

Craig Joseph

Craig Joseph, P.G.
Florida Professional Geologist No. 2956

February 11, 2020

Date

1. INTRODUCTION

Geosyntec Consultants (Geosyntec), on behalf of Waste Connections (WC), is pleased to provide this report to the Florida Department of Environmental Protection (FDEP) for the J.E.D. Solid Waste Management ("JED") facility. This report summarizes and provides interpretation of the water quality monitoring performed in accordance with the Monitoring Plan Implementation Schedule (MPIS) prepared as part of the JED facility permit application. The MPIS requirements are presented in Appendix 3 of the June 13, 2017 FDEP-issued JED facility Operating Permit (Permit No. 0199726-033-SO-01 ["the Permit"]).

Geosyntec has prepared this report for WC, parent company of Waste Connections of Osceola County, LLC ("WCOC"), owner and operator of the JED facility. A completed water quality certification form (FDEP Form 62-701.900[31]) is included in **Appendix A**.

1.1 Overview

The MPIS establishes a water quality monitoring program that measures and reports groundwater and surface water conditions and groundwater flow direction across the JED facility. The 31st semi-annual water quality monitoring event was completed between November 18 and November 21, 2019. This report presents the sample locations, sampling procedures, laboratory analyses and results, field data measurements, groundwater level measurements, groundwater flow direction, and surface water quality monitoring. In addition, the current analytical results are compared to applicable Groundwater Cleanup Target Levels (GCTLs) as promulgated in Chapter 62-777 F.A.C.

1.1.1 Site Description

The JED facility is located in eastern Osceola County, Florida, west of highway U.S. 441, approximately 6.5 miles south of Holopaw. The facility is a Class I landfill which is linked to highway U.S. 441 by a 2.9-mile access road. The JED facility comprises a total of approximately 2,179 acres. The landfill footprint at build-out will be approximately 360 acres and consist of 23 landfill cells that will provide available waste capacity for a period of approximately 30 years.

In October 2003, the FDEP issued a permit to construct and operate Phase 1 of the JED facility. Phase 1 includes four landfill cells (Cells 1 through 4) located in the northern part of the landfill and encompassing approximately 54 acres. All components of the Phase 1 development have been constructed. As part of Phase 1, 45 groundwater monitoring wells were installed in 15 clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. The baseline water quality report for the Phase 1 monitoring well network was submitted to the FDEP in May 2004 (Geosyntec Consultants, 2004).

In March 2007, the FDEP issued a permit to construct and operate Phases 2 (Cells 5 through 7) and 3 (Cells 8 through 10), which encompass a total footprint of approximately 72 acres. As part of Phases 2 and 3, and as approved by the FDEP, six existing Phase 1 monitoring wells (MW-14A, B, and C, and MW-15A, B, and C) were decommissioned to allow for the construction of future

cells and the construction of a storm water retention basin located within Phases 2 and 3. The decommissioning of the monitoring wells was discussed in the *Phases 2 and 3 Groundwater Monitoring Report* (Geosyntec, 2008). In September 2007, for the development of Phases 2 and 3, 24 additional monitoring wells were installed in eight well clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 3 development areas.

In April 2008, the FDEP issued a permit to construct and operate Phases 1 through 3 with vertical expansion. In April 2009, the MPIS for the semi-annual water quality monitoring well network was modified for Phases 1 through 3. The modification included a reduction in the number of Phase 3 monitoring wells requiring semi-annual sampling until such time that waste placement commences in one of the Phase 3 cells (i.e., Cells 8, 9, or 10), and the sampling schedule was modified for B-zone (intermediate depth) and C-zone (deep) monitoring wells. The new schedule included:

1. November sampling of C-zone monitoring wells (MW-1C through MW-13C, MW-16C, and MW-19C through MW-23C) and one B-zone monitoring well (MW-16B) with January reporting.
2. May sampling of B-zone monitoring wells (MW-1B through MW-13B, MW-16B, and MW-19B through MW-23B) and one C-zone monitoring well (MW-16C), with July reporting.

Cell 1 was completed in January 2004, Cell 4 was completed in May 2005, Cell 2 was completed in April 2006, Cell 3 was completed in October 2006, Cell 5 was completed in October 2007, Cell 6 was completed in July 2008, and Cell 7 was completed in August 2010. In August 2011, the FDEP issued a permit to construct a lateral expansion of the facility, which authorized construction of Phases 3 through 8 (Cells 8 through 23). Cell 8 was completed in April 2012. During construction startup of Cell 8 in November 2011, monitoring well cluster MW-22 (A, B and C) was decommissioned to accommodate the perimeter road access to Cell 8. Replacement well cluster MW-22R (AR, BR and CR) was installed in March 2012 on the perimeter access road approximately 800 feet (ft) south of well cluster MW-23. The MW-22 cluster abandonment and MW-22R cluster installation activities were presented in the *Water Quality Monitoring Installation Report (Cluster MW-22R)* and submitted to the FDEP in April 2012 (Geo-Services and Consulting, LLC [GS&C], 2012). The initial groundwater monitoring of cluster MW-22R was conducted on March 19, 2012 and the results presented in the *Initial Water Quality Report Monitoring Well Cluster MW-22R* (GS&C, 2012) and submitted to the FDEP in July 2012.

The Cell 9 disposal area construction was completed in October 2013. As with previous construction and expansion efforts (e.g., Cell 8 disposal area) well cluster MW-20 was installed in a temporary location on the Phase 3 storm water berm. Cell 9 construction activities included substantial modifications to the berm and as such, the MW-20 well cluster was abandoned on June 24, 2013. At the same time, the MW-16 well cluster was abandoned at its temporary location. In October 2013, replacement wells MW-16AR, MW-16BR, and MW-16CR were installed in a permanent location on the backside of the perimeter berm near the Cell 9 sump. The monitoring well abandonment and installation report was submitted to the FDEP in November 2013 (Weibu, LLC 2013).

On December 24, 2013, a permit minor modification application was submitted to the FDEP to request a modification to the MPIS prior to the initiation of construction of Cell 10 of Phase 3 and Cells 11-13 of Phase 4. The minor modification was approved by the FDEP in January 2014. The major changes include:

- the installation and sampling schedule of monitoring wells for the Phase 3, Cell 10 and Phase 4 construction (includes Cells 11, 12, and 13);
- the removal of the "C" zone wells from the semi-annual sampling schedule; and
- the installation of only "A" and "B" zone wells at the new monitoring well cluster locations.

The January 2014 MPIS modifications were implemented during the 20th semi-annual groundwater sampling event in May 2014, and in an email dated May 14, 2014, the FDEP, based on review of past semi-annual water quality monitoring reports, removed total phenols analysis from the laboratory parameters list in Requirement 9 of the MPIS.

Construction of the Cell 10 disposal area began in March 2014 which necessitated the abandonment of temporary groundwater monitoring well clusters MW-17, 18, 19, and 21. The wells were located on the Phase 3 interim storm water berm and were abandoned during Cell 10 construction on March 5, 2014. The monitoring well abandonment report was submitted to the FDEP on March 13, 2014. The installation of monitoring well clusters MW-17R, MW-24, MW-25, and MW-26, which are associated with the completion of Cell 10 and initiation of Phase 4 construction activities, was summarized in a report submitted to the FDEP on July 30, 2014 (Weibu, LLC 2014).

Construction of the Cell 11 disposal area began in March 2015. As part of the construction, detection monitoring well clusters MW-27, MW-28, and MW-29 were installed along the outside perimeter of the cell in accordance with the MPIS (revised January 30, 2015, FDEP File No. 0199726-027-SO-MM). Per the FDEP Permit requirements, the well clusters included shallow surficial aquifer monitoring wells (MW-27A, MW-28A, and MW-29A) and intermediate surficial aquifer monitoring wells (MW-27B, MW-28B, and MW-29B). The monitoring well installation and initial sampling report was submitted to the FDEP in September 2015 (Geosyntec, 2015).

Construction of Cell 13 began in December 2015. Detection monitoring wells MW-26A and MW-26B, located on the interim Phase 4 storm water berm, required abandonment to accommodate cell construction. The MW-26 cluster was abandoned on June 15, 2016. Monitoring wells MW-31A and MW-31B were installed on June 16, 2016 as replacements for cluster MW-26 and are located along the west perimeter of Cell 13. A report summarizing the monitoring well abandonment and installation activity and the initial sampling activities was submitted to the FDEP in October 2016 (Weibu, LLC, 2016).

Construction of Cell 12 was completed on May 20, 2019. Detection monitoring wells MW-30A and MW-30B were installed in March 2019 and are located along the southwest corner of Cell 12. A report summarizing the monitoring well installation activity and the initial sampling activities was submitted to the FDEP in May 2019 (Weibu, LLC, 2019).

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

For the Phase 1 development, 45 groundwater monitoring wells were installed in fifteen clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. In accordance with the FDEP permit requirements, monitoring well clusters were located such that the spacing between clusters was no greater than 500 ft. For development of Phases 2 and 3, 24 groundwater monitoring wells were installed in eight clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 3 development areas. In accordance with the FDEP permit requirements, the monitoring well clusters were located such that the spacing between detection well clusters (MW-16 through MW-21) was approximately 500 ft, and the spacing between background well clusters (MW-22R and MW-23) was approximately 800 ft. Each of these well clusters consist of three groundwater monitoring wells installed (i) across the water table to monitor the upper limit of the surficial aquifer (identified as A-zone [shallow] wells), (ii) within the lower limit of the upper surficial aquifer above the intermediate clay layer (identified as C-zone [deep] wells), and (iii) at an intermediate depth between the shallow and deep wells (identified as B-zone [intermediate] wells). During the Phase 4, Cell 10 construction, four well clusters (MW-17, MW-18, MW-19, and MW-21) were abandoned and three well clusters (MW-24, MW-25, and MW-26) were installed along the Phase 4 interim storm water berm. Monitoring well clusters MW-24 through MW-26 were approximately 1,400 ft apart. In addition, replacement monitoring well cluster MW-17R was installed adjacent to Cell 10. In accordance with the January 2014 MPIS the three new and one replacement well cluster consist of two monitoring wells each, one installed in the A-zone and one in the B-zone.

A Site Map showing the location of all Site monitoring wells is included as **Figure 1**. The location of the shallow (A-zone), intermediate (B-zone), and deep (C-zone) groundwater monitoring wells installed for Phases 1 through 4 are shown on **Figure 2**, **Figure 3**, and **Figure 4**, respectively. Groundwater monitoring well clusters MW-1 through MW-13, MW-16R, MW-17R, MW-22R, MW-23, MW-27 through MW-29, and MW-31 were installed along the top of the outer edge of the landfill perimeter berm. The ground surface at the location of the wells in the perimeter berm has an elevation of approximately 92 ft with respect to National Geodetic Vertical Datum of 1929 (NGVD, 1929). Groundwater monitoring well clusters MW-24 and MW-25 were installed along the Phase 4 interim storm water berm. The ground surface at these two well locations has an elevation of approximately 84 ft NGVD, 1929. The location of each well, in Florida state plane coordinates and latitude/longitude, and elevation were surveyed by a Florida-registered professional land surveyor.

Monitoring wells were constructed with 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 10 ft of #6-slot (0.006-in.) PVC screen. A 30/45 graded silica sand was placed around the screen to a height of 2 to 3 ft above the top of the screen. A seal of 30/65 graded fine silica sand was placed above the sand filter around the screen. The remaining annular space from the top of the fine sand filter seal to the existing ground surface was grouted using a tremie pipe with a cement/bentonite mixture containing no more than 5 percent bentonite by dry weight. The PVC

well casings were extended approximately 2.5 to 3 ft above the existing ground surface. Surface completion consisted of a protective aluminum casing with a lockable cover set in a concrete pad. Each well was provided with a well cap, padlock, and an identification label. A summary of the monitoring well construction details is presented in **Table 1**.

2.2 Turbidity Issues

As discussed in the baseline water quality reports for the Phases 1 through 3 monitoring networks (Geosyntec 2004 and 2008) the formation around the screened intervals consists primarily of a fine, brown to dark brown, silty sand. Due to the subsurface formation properties, fine-grained and colloidal material can pass through the sand filter pack in many wells, primarily in the B-zone and C-zone wells. This is the case even though the wells are constructed using the smallest screen slot size (0.006 in.) commonly available. Most of the intermediate and deep wells have had turbidity values greater than the 20 nephelometric turbidity units (NTUs) criterion even after extended well development and the removal of multiple well volumes.

The difficulty in attaining the desired turbidity criterion was originally discussed at a meeting between Geosyntec Consultants (Geosyntec) and the FDEP on January 12, 2004 during the well development activities associated with the wells installed as part of the Phase 1 development. Geosyntec notified the FDEP again on September 14, 2007 of the elevated turbidity levels observed after extended well development during the development of Phase 2 and 3 monitoring wells. In accordance with these discussions, it was agreed that field-filtered (1-micron) and unfiltered samples would be collected for metals analyses for any sample with a turbidity value greater than 20 NTUs. The data generated by the dual sampling is expected to help demonstrate (i) what effect turbidity may have on metal analyses (i.e., by comparing total and dissolved metals concentrations) and (ii) whether groundwater samples with turbidities greater than 20 NTUs show higher concentrations of metals than those samples with turbidities less than 20 NTUs. During the November 2019 sampling event, groundwater from well MW-31A was observed with turbidity values above 20 NTU. Therefore, both filtered and unfiltered samples were collected at MW-31A.

3. MONITORING WELL SAMPLING

3.1 Sampling Locations and Procedures

In accordance with the MPIS, 27 monitoring wells installed as part of the Phase 1 development, eight of the monitoring wells installed as part of the Phase 2 and 3 developments, 12 of the monitoring wells installed as part of the Phase 4 development, and three compliance wells were sampled during the 31st semi-annual monitoring event. Monitoring wells sampled this event included A and B-zone wells MW-1 through MW-13, MW-16R, MW-17R, MW-22R, MW-23, MW-24, MW-25, MW-27 through MW-29, MW-30, MW-31 and A-zone compliance wells CW-1A, CW-2A, and CW-3A. Low-flow sampling techniques were used for groundwater sample collection. All groundwater sampling was performed in accordance with the current applicable FDEP Standard Operating Procedures (DEP-SOP-001-01, March 2014) for groundwater sampling. Additionally, for quality control purposes, two duplicate samples (MW-9A, CW-3A) and one equipment blank were collected and analyzed for the same constituents as the monitoring wells. Peristaltic pumps were used to purge and sample all wells. Each monitoring well was purged and sampled using new tubing (silicone and/or high-density polyethylene).

During the purging process, a YSI 556 water quality meter equipped with a flow-through cell was used to monitor the following field parameters: pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen. Turbidity levels were measured using a HACH 2100Q turbidimeter. Field parameters were recorded on sample collection forms, which are included in **Appendix B**. When the field parameters stabilized within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected.

The calibration of the water quality monitoring instruments was checked daily, and the instruments were re-calibrated when necessary. Water quality instrument calibration forms are presented in **Appendix C**. Samples were placed in coolers and packed with bagged ice for transport to the analytical laboratory. Chain-of-custody (COC) forms were completed and accompanied the samples to the analytical laboratory. All COC forms are included with the associated analytical laboratory reports included as **Appendix D**. A trip blank was included with each cooler, and security seals were affixed to every cooler prior to shipment.

3.2 Sample Analyses

Samples were analyzed by Advanced Environmental Laboratories (AEL) in Jacksonville, Florida in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. AEL holds certification from the Florida Department of Health (FDOH) for the analytical test methods used for this project and is certified in the State of Florida for analysis of environmental samples.

Groundwater samples were analyzed by AEL for total ammonia as nitrogen (N), chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and the 40 Code of Federal Regulations (CFR) Part 258 Appendix I parameters. Other required parameters (i.e., pH, temperature, conductivity,

turbidity, ORP, and dissolved oxygen) were measured in the field during collection of the groundwater samples.

4. GROUNDWATER SAMPLING RESULTS

4.1 Field Parameters

Table 2 provides a summary of the field measurements of selected water quality parameters utilized determining sample stability for this semi-annual monitoring event. The secondary drinking water standard (SDWS) range for pH is 6.5 to 8.5 standard units (SU). The groundwater pH was below the SDWS in all site wells sampled during this event with pH values ranging from 4.39 to 5.57 SU. The groundwater pH values measured at the site have historically been below the SDWS lower limit of 6.5 SU.

4.2 Laboratory Analytical Results

The analytical laboratory results for this groundwater sampling event are included in **Appendix D**. Analytical results have been summarized in **Table 3** to show the parameters where a constituent concentration was reported above the laboratory practical quantitation limit (PQL) in at least one monitoring well. Any parameter exceeding the applicable FDEP GCTL, Primary Drinking Water Standard (PDWS), or SDWS has been highlighted orange. The following discussion regarding groundwater quality is organized by analytical method and is limited to those parameters where the GCTL, PDWS, or SDWS was exceeded in at least one groundwater monitoring well.

4.2.1 Total Metals (Methods 6020B and 6010B)

4.2.1.1 Arsenic

Arsenic was detected above the GCTL of 10 micrograms per liter (µg/L) in compliance wells CW-1A (150 µg/L) and CW-3A (13 µg/L). Arsenic has historically exceeded the GCTL at CW-1A, including during the initial sampling event in December 2013. CW-1A was installed to delineate the area west of MW-3A, which typically has an arsenic concentration less than 10 µg/L. Therefore, this localized arsenic detection appears to be naturally occurring. Another potential source may be a utility pole located approximately 20 ft from CW-1A, which may have been treated with an arsenic compound such as chromated copper arsenate (CCA).

The exceedance of arsenic above the GCTL at CW-3A represents the first arsenic exceedance at this well since monitoring began in 2013. Well CW-3A is installed on the downgradient side of the stormwater basin to the east of and adjacent to Cell 2 and Cell 3. As discussed in the 7th Technical Report on Water Quality (Geosyntec, 2019), concentrations of leachate indicator parameters have been increasing in wells located in the central- and north-eastern portions of the facility. Installation of an exposed geomembrane cover over approximately 6.5 acres of the lower-third of the east-facing slope was proposed as a remedial strategy to contain leachate seepage. This project was completed on January 30, 2020 and attenuation of leachate indicator parameters is expected following implementation.

4.2.1.2 Beryllium

Beryllium was reported above the PDWS of 4 µg/L for the unfiltered sample obtained from shallow groundwater monitoring well MW-31A (4.8 µg/L). Due elevated turbidity issues during sampling, a filtered sample was also collected and submitted for analysis in accordance with the agreed upon procedure as described in Section 2.2 of this report. The filtered sample concentration of 3.7 µg/L is below the PDWS.

4.2.1.3 Iron

Iron was reported above the SDWS of 300 µg/L in all monitoring wells sampled during this event except for intermediate monitoring wells MW-4B and MW-5B. Reported concentrations ranged from 120 ug/L to 80,000 ug/L and are similar to previous monitoring events. The highest A-zone and B-zone iron concentrations were detected in MW-31A and MW-31B, respectively. Iron has historically exceeded the SDWS in most wells during each monitoring event conducted at the Site, including the baseline events. The iron concentrations reported for the 31st semi-annual event are generally consistent with period of record data.

4.2.1.4 Sodium

Sodium was detected above the PDWS of 160 milligrams per liter (mg/L) in monitoring well MW-1A (240 mg/L), MW-12A (270 mg/L), MW-13A (500 mg/L), MW-23A (500 mg/L), MW-23B (170 mg/L) and in compliance wells CW-2A (230 mg/L) and CW-3A (400 mg/L). As discussed in the 7th Technical Report on Water Quality (Geosyntec, 2019), concentrations of leachate indicator parameters have been increasing in wells located in the central- and north-eastern portions of the facility. Installation of an exposed geomembrane cover over approximately 6.5 acres of the lower-third of the east-facing slope was proposed as a remedial strategy to contain leachate seepage. This project was completed on January 30, 2020 and attenuation of leachate indicator parameters is expected following implementation.

4.2.2 Ammonia-N (Method 350.1)

Per the FDEP memo dated December 3, 2012, the default GCTL for ammonia of 2.8 mg/L is no longer regulated as a specific groundwater quality standard. Ammonia was detected above the default GCTL in twenty of the A-zone monitoring wells, with concentrations ranging from 3.3 mg/L to 42 mg/L and the highest concentration being from MW-23A. Ammonia was detected above the default GCTL in eight of the intermediate monitoring wells, with concentrations ranging from 4.4 mg/L to 20 mg/L and the highest concentration being from well MW-9B ("J" flagged due to a laboratory detection limit greater than the GCTL). Ammonia was detected above the default GCTL in CW-2A and CW-3A, with concentrations ranging from 21 to 23 mg/L.

Under reducing geochemical conditions, nitrogen containing compounds can be converted to ammonia. Reducing conditions are favorable in the shallow aquifer at the site and may develop in several ways such as the shadow effect of the lined disposal areas preventing the infiltration of oxygen-rich precipitation, displacement of oxygen by landfill gas immediately above the water table, or high organic matter content found in site soils that promotes the growth of oxygen

consuming microorganisms (HDR Engineering, Inc., 2012). The elevated levels of ammonia are likely naturally occurring and have been discussed extensively ([Geosyntec, August 2016], [Geosyntec, July 2014], and [HDR Engineering, Inc., 2012]).

4.2.3 Chloride (Method 300.0)

Chloride was detected above the SDWS of 250 mg/L in shallow monitoring wells MW-1A (410 mg/L), MW-12A (500 mg/L), MW-13A (990 mg/L), MW-23A (870 mg/L), and MW-28A (430 mg/L) in intermediate monitoring wells MW-2B (260 mg/L), MW-4B (490 mg/L), MW-5B (540 mg/L), and MW-9B (490 mg/L) and in compliance wells CW-2A (330 mg/L) and CW-3A (550 mg/L). As discussed in the 7th Technical Report on Water Quality (Geosyntec, 2019), concentrations of leachate indicator parameters have been increasing in wells located in the central- and north-eastern portions of the facility. Installation of an exposed geomembrane cover over approximately 6.5 acres of the lower-third of the east-facing slope was proposed as a remedial strategy to contain leachate seepage. This project was completed on January 30, 2020 and attenuation of leachate indicator parameters is expected following implementation.

4.2.4 TDS (Method SM 2540C)

TDS concentrations were detected above the SDWS of 500 mg/L in sixteen shallow monitoring wells, with concentrations ranging from 560 mg/L to 1,900 mg/L and the highest concentration being from monitoring well MW-13A. TDS concentrations were detected above the SDWS of in nine intermediate monitoring wells, with concentrations ranging from 740 mg/L to 1,700 mg/L and the highest concentration being from MW-4B. TDS concentrations were detected above the SDWS in compliance wells CW-2A and CW-3A, with concentrations ranging from 1,200 to 1,600 mg/L. TDS is an indicator parameter whose value can be attributed to the presence of major cations and anions, such as calcium, magnesium, sodium, chloride, and sulfate. As discussed in the 7th Technical Report on Water Quality (Geosyntec, 2019), concentrations of leachate indicator parameters have been increasing in wells located in the central- and north-eastern portions of the facility. Installation of an exposed geomembrane cover over approximately 6.5 acres of the lower-third of the east-facing slope was proposed as a remedial strategy to contain leachate seepage. This project was completed on January 30, 2020 and attenuation of leachate indicator parameters is expected following implementation.

4.2.5 40 CFR Part 258, Appendix I Volatile Compounds (Method 8260)

4.2.5.1 Benzene

Benzene was detected above the PDWS of 1.0 µg/L in eight A-zone monitoring wells, with concentrations ranging from 1.3 to 11 µg/L and the highest concentration being from MW-9A. Benzene was also detected in intermediate well MW-10B at a concentration of 13 µg/L. Benzene has been reported above the GCTL in most of these wells during previous monitoring events at similar concentrations.

The source of benzene in groundwater is likely attributed to landfill gas ([HDR Engineering, Inc., 2012] and [Geosyntec, 2013]). As discussed in the reports mentioned above, neither the constituents nor the concentrations of VOCs detected in groundwater appear to correlate well with leachate results. If benzene detections in the groundwater were attributable to a leachate release, it would be reasonable to expect to observe elevated concentrations of other indicator parameters such as sodium or chloride; however, this does not appear to be the case.

4.2.5.2 1,2,3- Trichloropropane

1,2,3-Trichloropropane was reported above the GCTL of 0.02 µg/L in all sampled monitoring and compliance wells due to a laboratory method detection limit (MDL) greater than the GCTL ("O-qualified"). The results were also "U-qualified" indicating the sample was not detected above the MDL of 0.91 mg/L. The presence of 1,2,3-Trichloropropane will be monitored during future semi-annual monitoring events.

4.2.5.3 Acrylonitrile

Acrylonitrile was reported above the GCTL of 0.06 µg/L in all sampled monitoring and compliance wells due to a laboratory method detection limit (MDL) greater than the GCTL ("O-qualified"). The results were also "U-qualified" indicating the sample was not detected above the MDL of 1.1 mg/L. The presence of acrylonitrile will be monitored during future semi-annual monitoring events.

4.3 Data Validation

All laboratory analyses were performed within the method-specified hold times. Two duplicate samples were collected during the 31st semi-annual monitoring event. A duplicate sample was collected concurrently with the sample from monitoring well MW-9A (sample name: 19324-Dup-1) and CW-3A (sample name: 19325-Dup-2). Results of the duplicate samples are included in Table 3. A relative percent difference (RPD) calculation was performed between the original samples and the duplicate samples. The average RPD for both duplicate samples is below twenty percent, which indicates a good correlation.

An equipment blank was collected using a new length of HDPE tubing to pump lab supplied de-ionized water through the peristaltic pump and into sample containers. The equipment blank sample was analyzed for the same constituents as the groundwater samples. Methylene chloride (2.6 µg/L) and nitrate (0.056 mg/L) were detected at a concentration between the PQL and MDL and flagged with an "I" qualifier. Additional analytes were not detected at concentrations greater than the laboratory reporting limit.

4.4 Impact of Turbidity on Metals Concentrations

A turbidity of less than 20 NTUs was not achieved in the sample collected from monitoring well MW-31A during the November 2019 sampling event; therefore, a filtered sample was collected and submitted for laboratory analysis to compare the total (unfiltered) and dissolved (filtered)

metals concentrations. Concentrations of arsenic, beryllium, and chromium were all lower in the filtered sample relative to the unfiltered sample.

5. GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained on November 18, 2019 from all Phase 1 through 4 monitoring wells and the remaining piezometers installed as part of the original site hydrogeological investigation. The groundwater level measurements were made within an approximate 4-hr period. **Table 4** contains the groundwater level measurements and calculated groundwater elevations from the monitoring wells and piezometers.

5.2 Water Level Contours

The water level contour maps prepared from groundwater level measurements are presented in **Figure 2** for the surficial aquifer in the A-zone (shallow) wells, in **Figure 3** for the B-zone (intermediate) wells, and **Figure 4** for the C-zone (deep) wells. Overall, the groundwater elevation data collected on November 18, 2019 from the A-zone and B-zone indicate radial flow from the northern side of the landfill. On the southern side of the Site, a groundwater flow divide exists where groundwater west of MW-25A flows towards the southwest likely as a result of dewatering activities associated with borrow area operations, and groundwater east of MW-25A flows towards a surface pond. Groundwater elevation data from the C-zone indicates a similar groundwater flow direction in the A-zone and B-zone.

6. SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two surface water sampling locations, SW-3 and SW-4 (**Figure 1**), established during the initial hydrogeological investigation were selected by the FDEP for routine water quality monitoring. As stated in the Permit, surface water samples are only to be collected when there is flow in Bull Creek. During the 31st semi-annual water quality monitoring event, flow was not observed in Bull Creek at either the upstream (SW-4) or downstream (SW-3) monitoring locations. Therefore, surface water samples were not collected during this monitoring event.

7. CONCLUSIONS AND RECOMMENDATIONS

7.1 Sampling Locations

The existing monitoring well network is adequate for monitoring purposes, and no changes are recommended. However, concentrations of chloride, sodium and TDS have been generally increasing since approximately 2016 in monitoring wells screened in both the shallow aquifer (MW-1A, MW-12A, MW-13A, and MW-23A) and intermediate aquifers (MW-2B, MW-4B, MW-5B, MW-23B) and could be attributed to slope face seeps. As part of the Cell 12 minor permit modification in 2018, "toe interceptors" which consist of the installation of an exposed geomembrane cover (EGC) on the lower 20-25 ft of slope that will contain and seeps at the toe of waste and direct seep flow to the base leachate collection system. This project was completed on January 30, 2020 and attenuation of leachate indicator parameters is expected following implementation.

7.2 Sample Analyses

The detections of iron, sodium, chloride, benzene, and TDS above the regulatory standards in specific groundwater monitoring wells have been discussed in detail in the previous Technical Reports on Water Quality (TRWQ). Section 4.2 identifies the potential sources of each of these analytes in detail. Our recommendation is to continue monitoring these constituents as part of the current MPIS.

The detections of benzene have been consistent in select monitoring wells and, as discussed in Section 4.2 as well as prior submittals to the FDEP. These detections may be attributable to landfill gas migration. The current MPIS requires sampling of compliance wells CW-1A, CW-2A, and CW-3A to monitor the edge of the zone of discharge. The compliance wells were non-detect for benzene during this event. Our recommendation is to continue semi-annual monitoring of these constituents as part of the current MPIS.

8. REFERENCES

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TABLES

Table 1 (1 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1A	28 03 48.55	81 05 59.88	19900	9-Dec-03	95.12	23.0	13.0	23.0	82.1	72.1	10.6	8.2
MW-2A	28 03 51.99	81 05 59.90	19903	10-Dec-03	95.21	22.6	12.6	22.6	82.6	72.6	10.3	8.9
MW-3A	28 03 55.34	81 05 59.91	19906	11-Dec-03	94.64	22.8	12.8	22.8	81.9	71.9	10.4	9.0
MW-4A	28 03 58.97	81 05 59.92	19909	12-Dec-03	95.48	23.1	13.1	23.1	82.4	72.4	10.8	9.4
MW-5A	28 04 02.92	81 05 59.95	19912	24-Nov-03	95.32	22.5	12.5	22.5	82.8	72.8	10.1	9.1
MW-6A	28 04 06.50	81 05 59.15	19915	25-Nov-03	94.72	22.6	12.6	22.6	82.2	72.2	10.6	8.6
MW-7A	28 04 07.13	81 05 54.78	19918	26-Nov-03	95.48	23.3	13.3	23.3	82.2	72.2	10.3	9.3
MW-8A	28 04 06.20	81 05 50.64	19921	5-Dec-03	94.67	22.5	12.5	22.5	82.2	72.2	10.2	8.6
MW-9A	28 04 04.34	81 05 46.60	19924	4-Dec-03	94.66	22.4	12.4	22.4	82.3	72.3	10.0	8.6
MW-10A	28 04 00.07	81 05 44.77	19927	3-Dec-03	96.25	22.1	12.1	22.1	84.1	74.1	9.8	7.6
MW-11A	28 03 55.43	81 05 43.27	19930	3-Dec-03	93.56	22.8	12.8	22.8	80.7	70.7	10.5	9.1
MW-12A	28 03 52.08	81 05 43.26	19933	2-Dec-03	95.10	23.0	13.0	23.0	82.1	72.1	10.7	9.3
MW-13A	28 03 48.67	81 05 43.25	19936	8-Dec-03	95.19	22.5	12.5	22.5	82.7	72.7	10.2	7.7
MW-14A	Monitoring Well Abandoned July 10, 2007											
MW-15A	Monitoring Well Abandoned July 10, 2007											
MW-16A	Monitoring Well Abandoned June 24, 2013											
MW-16AR	28 03 44.56	81 05 40.18	22342	15-Oct-13	95.01	23.9	13.5	23.5	81.5	71.5	9.0	8.0
MW-17A	Monitoring Well Abandoned March 5, 2014											
MW-17AR	28 03 42.3	81 05 35.2	22345	19-Jun-14	94.84	24.1	12.0	24.0	82.8	70.8	11.0	10.0
MW-18A	Monitoring Well Abandoned March 5, 2014											
MW-19A	Monitoring Well Abandoned March 5, 2014											
MW-20A	Monitoring Well Abandoned June 24, 2013											
MW-21A	Monitoring Well Abandoned March 5, 2014											
MW-22A	Monitoring Well Abandoned November 11, 2011											
MW-22AR	28 03 34.703	81 06 0.622	28685	14-Mar-12	95.00	23.7	13.0	23.0	82.0	72.0	10.5	9.5
MW-23A	28 03 42.41	81 05 59.79	22363	25-Sep-07	97.90	27.8	17.3	27.3	80.7	70.7	15.3	14.3
MW-24A	28 03 26.9	82 05 25.9	29170	18-Jun-14	87.06	23.5	13	23	74.1	64.1	12.0	11.0
MW-25A	28 03 26.6	82 05 42.6	29173	19-Jun-14	86.99	23.4	13	23	74.0	64.0	12	11
MW-26A	Monitoring Well Abandoned June 15, 2016											
MW-27A	28 03 32.956	81 05 26.032	29179	30-Jul-15	94.68	23.6	13	23	81.68	71.7	11	9
MW-28A	28 03 36.209	81 05 26.696	29186	30-Jul-15	94.77	24.0	14	24	80.77	70.77	11	9
MW-29A	28 03 39.981	81 05 30.307	29189	30-Jul-15	94.88	23.7	13	23	81.88	71.88	11	9
MW-30A	28 03 27.9	81 05 59.8	29192	30-Mar-19	95.11	20.5	10	20	85.11	75.11	10	8
MW-31A	28 03 28.260	81 05 25.013	29195	15-Jun-16	94.15	25.0	15	25	79.15	69.15	11.4	10.4
CW-1A	28 03 55.76	81 06 00.93	29157	14-Nov-13	84.53	18.5	8	18	76.53	66.53	6	4
CW-2A	28 04 00.51	81 05 43.63	29158	14-Nov-13	82.81	18.5	8	18	74.81	64.81	6	4
CW-3A	28 03 56.07	81 05 41.93	29159	14-Nov-13	81.89	18.4	8	18	73.89	63.89	6	4

Table 1 (2 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1B	28 03 48.59	81 05 59.89	19901	9-Dec-03	95.00	47.9	37.9	47.9	57.1	47.1	35.6	33.1
MW-2B	28 03 51.94	81 05 59.90	19904	10-Dec-03	95.17	48.3	38.3	48.3	56.9	46.9	36.0	34.6
MW-3B	28 03 55.31	81 05 59.91	19907	11-Dec-03	94.68	47.6	37.6	47.6	57.1	47.1	35.3	33.9
MW-4B	28 03 59.01	81 05 59.92	19910	12-Dec-03	95.18	47.4	37.4	47.4	57.8	47.8	35.1	33.5
MW-5B	28 04 02.88	81 05 59.95	19913	24-Nov-03	95.30	47.1	37.1	47.1	58.2	48.2	34.4	32.7
MW-6B	28 04 06.48	81 05 59.18	19916	25-Nov-03	94.60	47.4	37.4	47.4	57.2	47.2	34.9	33.5
MW-7B	28 04 07.13	81 05 54.81	19919	26-Nov-03	95.27	47.5	37.5	47.5	57.8	47.8	34.5	33.5
MW-8B	28 04 06.19	81 05 50.60	19922	5-Dec-03	94.58	49.6	39.6	49.6	55.0	45.0	37.1	35.6
MW-9B	28 04 04.31	81 05 46.56	19925	4-Dec-03	94.63	49.1	39.1	49.1	55.5	45.5	36.8	35.3
MW-10B	28 04 00.04	81 05 44.75	19928	3-Dec-03	96.23	48.3	38.3	48.3	58.0	48.0	35.9	33.9
MW-11B	28 03 55.40	81 05 43.27	19931	2-Dec-03	93.59	47.9	37.9	47.9	55.7	45.7	35.5	34.0
MW-12B	28 03 52.05	81 05 43.27	19934	1-Dec-03	95.01	49.0	39.0	49.0	56.1	46.1	36.6	35.1
MW-13B	28 03 48.64	81 05 43.24	19937	8-Dec-03	95.12	47.2	37.2	47.2	58.0	48.0	34.8	33.4
MW-14B	Monitoring Well Abandoned July 10, 2007											
MW-15B	Monitoring Well Abandoned July 10, 2007											
MW-16B	Monitoring Well Abandoned June 24, 2013											
MW-16BR	28 03 44.54	81 05 40.14	22343	15-Oct-13	94.97	46.6	36.5	46.5	58.5	48.5	33.0	31.0
MW-17B	Monitoring Well Abandoned March 5, 2014											
MW-17BR	28 03 42.2	82 05 35.2	22346	19-Jun-14	94.78	48.5	38.0	48.0	56.8	46.8	37.0	36.0
MW-18B	Monitoring Well Abandoned March 5, 2014											
MW-19B	Monitoring Well Abandoned March 5, 2014											
MW-20B	Monitoring Well Abandoned June 24, 2013											
MW-21B	Monitoring Well Abandoned March 5, 2014											
MW-22B	Monitoring Well Abandoned November 11, 2011											
MW-22BR	28 03 34.665	81 05 59.850	28686	15-Mar-12	94.86	46.1	35.5	45.5	59.4	49.4	33.0	28.0
MW-23B	28 03 42.46	81 05 59.79	22364	25-Sep-07	97.91	42.8	32.3	42.3	65.7	55.7	30.3	29.3
MW-24B	28 03 26.5	82 05 58.5	29171	18-Jun-14	87.05	43.1	33	43	54.1	44.1	32.0	31.0
MW-25B	28 03 26.6	82 05 42.7	29174	19-Jun-14	86.67	41.5	31	41	55.7	45.7	30.0	29.0
MW-26B	Monitoring Well Abandoned June 15, 2016											
MW-27B	28 03 33.0	81 05 26.032	29180	30-Jul-15	94.66	46.8	36	46	58.66	48.66	34	32
MW-28B	28 03 36.252	81 05 26.696	29187	30-Jul-15	94.68	48.7	38	48	56.68	46.68	36	34
MW-29B	28 03 39.998	81 05 30.307	29190	30-Jul-15	94.67	48.8	38	48	56.67	46.67	36	34
MW-30B	28 03 27.8	81 05 59.8	29193	30-Mar-19	95.01	44.5	34	44	61.01	51.01	33	31
MW-31B	28 03 28.304	81 05 25.029	29196	15-Jun-16	93.88	46.3	36	46	57.88	47.88	35	34

Table 1 (3 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1C	28 03 48.63	81 05 59.88	19902	9-Dec-03	95.18	75.2	65.2	75.2	30.0	20.0	62.9	61.4
MW-2C	28 03 51.90	81 05 59.89	19905	10-Dec-03	95.32	68.4	58.4	68.4	36.9	26.9	56.1	53.7
MW-3C	28 03 55.28	81 05 59.91	19908	11-Dec-03	94.66	68.7	58.7	68.7	36.0	26.0	56.3	54.8
MW-4C	28 03 59.04	81 05 59.92	19911	12-Dec-03	95.39	72.5	62.5	72.5	32.9	22.9	61.2	59.6
MW-5C	28 04 02.83	81 05 59.95	19914	24-Nov-03	95.39	73.0	63.0	73.0	32.4	22.4	60.7	58.7
MW-6C	28 04 06.46	81 05 59.22	19917	25-Nov-03	94.58	73.2	63.2	73.2	31.4	21.4	60.2	57.7
MW-7C	28 04 07.13	81 05 54.86	19920	25-Nov-03	94.93	73.3	63.3	73.3	31.6	21.6	60.3	59.3
MW-8C	28 04 06.17	81 05 50.55	19923	5-Dec-03	94.50	73.9	63.9	73.9	30.6	20.6	61.6	59.8
MW-9C	28 04 04.29	81 05 46.53	19926	4-Dec-03	94.54	73.8	63.8	73.8	30.8	20.8	61.4	59.4
MW-10C	28 04 00.01	81 05 44.74	19929	3-Dec-03	96.36	73.7	63.7	73.7	32.7	22.7	61.4	60.0
MW-11C	28 03 55.36	81 05 43.26	19932	2-Dec-03	93.65	73.4	63.4	73.4	30.3	20.3	61.0	59.6
MW-12C	28 03 52.01	81 05 43.26	19935	1-Dec-03	95.10	73.6	63.6	73.6	31.5	21.5	60.2	58.7
MW-13C	28 03 48.60	81 05 43.25	19938	8-Dec-03	95.04	73.0	63.0	73.0	32.1	22.1	60.7	58.2
MW-14C	Monitoring Well Abandoned July 10, 2007											
MW-15C	Monitoring Well Abandoned July 10, 2007											
MW-16C	Monitoring Well Abandoned June 24, 2013											
MW-16CR	28 03 44.52	81 05 40.11	22344	16-Oct-13	95.03	75.3	65.0	75.0	30.0	20.0	60.0	59.0
MW-17C	Monitoring Well Abandoned March 5, 2014											
MW-18C	Monitoring Well Abandoned March 5, 2014											
MW-19C	Monitoring Well Abandoned March 5, 2014											
MW-20C	Monitoring Well Abandoned June 24, 2013											
MW-21C	Monitoring Well Abandoned March 5, 2014											
MW-22C	Monitoring Well Abandoned November 11, 2011											
MW-22CR	28 03 34.629	81 05 59.854	28687	15-Mar-12	95.13	66.6	56.0	66.0	39.1	29.1	50.0	49.0
MW-23C	28 03 42.51	81 05 59.80	22365	24-Sep-07	97.93	67.1	56.6	66.6	41.4	31.4	54.6	53.6

Notes:

NAD 1983 = North American Datum 1983
BTOC = Below Top of Casing

Table 2

SUMMARY OF WATER QUALITY FIELD PARAMETERS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Monitoring Well	Temperature (°C)	pH (Standard Units)	Specific Conductance (uS/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Purging Method
MW-1A	24.32	4.70	1,689	0.87	-133.5	0.04	Peristaltic Pump
MW-1B	23.71	4.30	757	0.17	-72.0	0.10	Peristaltic Pump
MW-2A	24.68	4.48	973	0.28	-68.7	0.00	Peristaltic Pump
MW-2B	23.89	4.04	1,381	1.74	-109.6	0.07	Peristaltic Pump
MW-3A	25.82	5.35	1,547	1.30	-147.4	0.00	Peristaltic Pump
MW-3B	25.29	4.15	1,903	0.29	-38.9	0.05	Peristaltic Pump
MW-4A	25.64	4.78	1,281	1.61	-136.7	0.01	Peristaltic Pump
MW-4B	25.30	5.46	2,481	0.71	-143.6	0.00	Peristaltic Pump
MW-5A	25.51	5.11	960	1.15	-109.2	0.05	Peristaltic Pump
MW-5B	24.82	4.15	1,683	0.67	6.6	0.03	Peristaltic Pump
MW-6A	25.94	5.00	377	0.52	-81.4	0.00	Peristaltic Pump
MW-6B	25.51	4.36	212	0.18	-57.2	0.05	Peristaltic Pump
MW-7A	25.67	5.00	336	0.39	-39.1	2.00	Peristaltic Pump
MW-7B	25.35	4.03	578	1.54	-2.3	1.58	Peristaltic Pump
MW-8A	25.34	4.17	1,246	1.31	-4.0	1.20	Peristaltic Pump
MW-8B	24.60	4.03	1,142	0.71	41.7	0.58	Peristaltic Pump
MW-9A	27.12	5.26	220	9.01	-47.3	1.73	Peristaltic Pump
MW-9B	26.04	4.40	478	1.14	77.6	0.91	Peristaltic Pump
MW-10A	26.78	4.76	847	1.83	-56.2	1.64	Peristaltic Pump
MW-10B	26.38	4.10	980	0.89	5.3	2.10	Peristaltic Pump
MW-11A	28.58	5.10	726	6.86	69.1	1.71	Peristaltic Pump
MW-11B	28.53	4.88	115	0.91	2.1	0.53	Peristaltic Pump
MW-12A	27.52	3.94	1,784	1.18	47.7	1.72	Peristaltic Pump
MW-12B	26.92	4.77	74	1.15	63.0	0.97	Peristaltic Pump
MW-13A	27.69	4.70	3,540	6.77	20.2	1.17	Peristaltic Pump
MW-13B	27.17	4.69	101	0.22	31.5	0.99	Peristaltic Pump
MW-16AR	27.69	5.40	1,155	9.64	-114.7	2.02	Peristaltic Pump
MW-16BR	26.37	4.60	114	0.59	-49.7	1.10	Peristaltic Pump
MW-17AR	28.56	4.44	907	2.07	163.4	2.38	Peristaltic Pump
MW-17BR	26.92	4.87	103	2.14	-66.4	0.75	Peristaltic Pump
MW-22AR	28.12	5.39	990	1.25	-116.2	0.01	Peristaltic Pump
MW-22BR	28.14	6.08	147	2.84	-40.2	0.02	Peristaltic Pump
MW-23A	26.35	5.58	3,175	4.07	-223.2	0.50	Peristaltic Pump
MW-23B	25.85	4.15	2,585	0.31	-17.1	0.01	Peristaltic Pump
MW-24A	25.16	4.45	220	0.34	-45.5	0.20	Peristaltic Pump
MW-24B	24.33	4.57	121	1.16	-49.6	0.13	Peristaltic Pump
MW-25A	25.61	4.85	1,003	0.71	-89.6	0.03	Peristaltic Pump
MW-25B	25.04	5.00	233	3.50	-128.1	0.05	Peristaltic Pump
MW-27A	26.59	4.80	192	2.01	80.2	2.81	Peristaltic Pump
MW-27B	25.94	5.17	149	1.10	-20.8	0.54	Peristaltic Pump
MW-28A	27.11	4.67	1,538	1.18	-43.0	1.56	Peristaltic Pump
MW-28B	26.36	4.78	147	1.18	-50.6	0.94	Peristaltic Pump
MW-29A	27.22	4.39	309	2.81	117.2	0.52	Peristaltic Pump
MW-29B	26.22	4.59	237	1.08	-28.1	0.91	Peristaltic Pump
MW-30A	24.80	4.40	391	0.32	21.5	0.10	Peristaltic Pump
MW-30B	24.24	4.45	165	0.34	-30.9	0.05	Peristaltic Pump
MW-31A	25.30	4.73	1,054	45	-36.8	1.14	Peristaltic Pump
MW-31B	25.87	4.47	1,342	0.89	-5.3	1.25	Peristaltic Pump
CW-1A	23.43	5.02	598	2.62	-91.7	0.03	Peristaltic Pump
CW-2A	23.95	5.08	1,981	3.10	-102.5	0.00	Peristaltic Pump
CW-3A	23.32	5.57	2,490	6.11	-126.1	0.05	Peristaltic Pump

Notes:

°C = degrees Celsius
uS/cm = micro Siemens per centimeter
NA = data not available
NTU = Nephelometric Turbidity Units
mV = millivolts
mg/L = milligram per liter

Table 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well ID	1,2,3-Trichloropropane		Acetone		Acrylonitrile		Benzene		Carbon Disulfide		cis-1,2- Dichloroethene		Methyl Ethyl Ketone (2-Butanone)		Methyl Isobutyl Ketone		Toluene		Xylenes (total)		Antimony		Arsenic		Barium
	GCTL (ug/L)		GCTL (ug/L)		GCTL (ug/L)		PDWS (ug/L)		GCTL (ug/L)		PDWS (ug/L)		GCTL (ug/L)		GCTL (ug/L)		GCTL (ug/L)		GCTL (ug/L)		PDWS (ug/L)		GCTL (ug/L)		PDWS (ug/L)
	0.02		**6,300**		**0.06**		**1**		**700**		**70**		**4,200**		**560**		**40**		**20**		**6**		**10**		**2,000**
MW-1A	0.91	U, O	2.1	U	1.1	U, O	2.3		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.15	I	1.7		39
MW-1B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.2		40
MW-2A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.83	I	72
MW-2B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.99	I	0.53	U	0.12	I	1.2		43
MW-3A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.48	I	54
MW-3B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.79	I	40
MW-4A	0.91	U, O	2.1	U	1.1	U, O	0.86	I	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.6		55
MW-4B	0.91	U, O	5.4		1.1	U, O	0.16	U	1.0		0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	1.6		3.4		53
MW-5A	0.91	U, O	6.9		1.1	U, O	0.16	U	0.95	I	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.88	I	12
MW-5B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.74	I	46
MW-6A	0.91	U, O	2.1	U	1.1	U, O	4.1		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.49	I	4.6
MW-6B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.36	I	49
MW-7A	0.91	U, O	2.1	U	1.1	U, O	0.45	I	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.80	I	20
MW-7B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.81	I	33
MW-8A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.12	I	0.68	I	31
MW-8B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.70	I	38
MW-9A	0.91	U, O	6.6		1.1	U, O	11		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.4		7.1
MW-9A Duplicate (Dup-1)	0.91	U, O	5.5		1.1	U, O	8.6		0.70	I	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.5		7.0
MW-9B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.49	I	48
MW-10A	0.91	U, O	2.1	U	1.1	U, O	6.3		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.5		90
MW-10B	0.91	U, O	2.1	U	1.1	U, O	13		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	1.5	I	0.11	U	0.94	I	44
MW-11A	0.91	U, O	4.6	I	1.1	U, O	2.5		0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	2.1		31
MW-11B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.69	I	17
MW-12A	0.91	U, O	4.6	I	1.1	U, O	5.7		0.67	U	0.24	U	0.43	U	1.5		0.23	U	0.53	U	0.21	I	1.7		240
MW-12B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.22	I	20
MW-13A	0.91	U, O	2.1	U	1.1	U, O	4.8		0.67	U	0.49	I	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	7.7		370
MW-13B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.20	I	13
MW-16AR	0.91	U, O	2.1	U	1.1	U, O	1.3		0.67	U	0.43	I	0.43	U	0.47	U	0.23	U	0.53	U	0.21	I	1.9		34
MW-16BR	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.40	I	38
MW-17AR	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.34	I	1.2		59
MW-17BR	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.47	I	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.63	I	18
MW-22AR	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	2.3		68
MW-22BR	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.27	I	14
MW-23A	0.91	U, O	290		1.1	U, O	0.16	U	2.3		0.24	U	63		5.8		2.2		0.53	U	3.5		6.2		32
MW-23B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.98	I	65
MW-24A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.23	I	21
MW-24B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.08	I	6.3
MW-25A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.0		74
MW-25B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.75	I	38
MW-27A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.43	I	1.2		23
MW-27B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.67	I	17
MW-28A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.4		120
MW-28B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.80	I	41
MW-29A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.27	I	0.82	I	52
MW-29B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.65	I	98
MW-30A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.15	I	0.55	I	82
MW-30B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	0.73	I	14
MW-31A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.13	I	3.6	I	66
MW-31A (Filtered)	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		0.17	I	1.1		66
MW-31B	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	1.3	I	86
CW-1A	0.91	U, O	2.1	U	1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.11	U	150		54
CW-2A	0.91	U, O	8.2		1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.17	I	3.3	I	76
CW-3A	0.91	U, O	12		1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.35	I	13		50
CW-3A Duplicate (Dup-2)	0.91	U, O	11		1.1	U, O	0.16	U	0.67	U	0.24	U	0.43	U	0.47	U	0.23	U	0.53	U	0.34	I	13		50

NOTES: Reported value exceeds the applicable GCTL, PDWS, or SDWS

U indicates the sample was analyzed but not detected above the laboratory method detection limit (MDL).
I indicates reported value is between the laboratory MDL and the laboratory practical quantitation limit.
O indicates a laboratory MDL greater than the GCTL.
Q indicates a missed hold time.
J indicates an estimated result

NM indicates parameter not measured

GCTL indicates Groundwater Cleanup Target Level

PDWS indicates Primary Drinking Water Standard
SDWS indicates Secondary Drinking Water Standard

Table 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well ID	Beryllium	Chromium	Cobalt	Iron	Mercury	Nickel	Sodium	Thallium	Vanadium	Chloride	Nitrate (N)	Ammonia	TDS
	PDWS (ug/L)	PDWS (ug/L)	PDWS (ug/L)	SDWS (ug/L)	PDWS (ug/L)	PDWS (ug/L)	PDWS (mg/L)	PDWS (ug/L)	GCTL (ug/L)	SDWS (mg/L)	SDWS (mg/L)	GCTL (mg/L)	SDWS (mg/L)
	4	**100**	**140**	**300**	**2**	**100**	**160**	**2**	**49**	**250**	**10**	**2.8**	**500**
MW-1A	0.50 U	5.1 I	2.0 U	6,600	0.01 U	6.0 U	240	0.06 U	12	410	0.25 U	4.8	970
MW-1B	0.50 U	2.2 I	2.0 U	5,300	0.01 U	6.0 U	64	0.06 U	4.7	90 J	0.05 U	7.9	440
MW-2A	0.50 U	2.5 I	2.0 U	14,000	0.01 U	6.0 U	72	0.06 U	7.3	150	0.05 U	7.0	560
MW-2B	1.0 I	2.0 U	6.6 I	24,000	0.01 U	6.0 U	150	0.06 U	15	260	0.10 U	4.4	840
MW-3A	0.50 U	2.0 U	2.0 U	3,600	0.01 U	6.0 U	25	0.06 U	2.7	38	0.10 U	8.0	1,200
MW-3B	2.2	2.0 U	2.0 U	1,700	0.01 U	6.0 U	95	0.06 I	9.3	130	0.25 U	4.8	1,500
MW-4A	0.50 U	2.0 I	2.0 U	3,900	0.01 U	6.0 U	49	0.06 U	2.0 I	90	0.10 U	10	900
MW-4B	0.50 U	3.2 I	2.0 U	100 U	0.01 U	6.0 U	140	0.06 U	11	490	0.50 U	12	1,700
MW-5A	0.50 U	3.2 I	2.0 U	470	0.01 U	6.0 U	77	0.06 U	0.93 I	130	0.05 U	4.6	610
MW-5B	0.50 U	2.0 U	2.0 U	120 I	0.01 U	6.0 U	82	0.06 U	4.0	540	1.0 U	8.2	1,300
MW-6A	0.50 U	2.0 U	2.0 U	18,000	0.02 I,J	6.0 U	25	0.06 U	3.0	59	0.05 U	6.7	160
MW-6B	0.50 U	2.0 U	2.0 U	1,600	0.02 I	6.0 U	12	0.06 U	1.8 I	25	0.05 U	0.18	86
MW-7A	0.50 U	2.0 U	3.2 I	21,000	0.01 U	6.0 U	18	0.06 U	1.1 I	56	0.05 U	13	130
MW-7B	0.80 I	2.0 U	4.1 I	20,000	0.01 U	6.0 U	18	0.07 I	1.9 I	31	0.05 U	2.6	400
MW-8A	0.50 U	2.0 U	2.0 U	1,800	0.01 U	6.0 U	4.5	0.06 U	4.6	5.0 I	0.10 U	0.91	1,100
MW-8B	0.80 I	2.0 U	8.9	46,000	0.01 U	6.0 U	30	0.09 I	3.8 I	17	0.05 U	1.4	1,000
MW-9A	0.50 U	3.9 I	2.0 U	610	0.01 U	6.0 U	17	0.06 U	3.4	18	0.02 U	4.7	180
MW-9A Duplicate (Dup-1)	0.50 U	2.0 U	2.0 U	600	0.01 U	6.0 U	19	0.06 U	3.7	68 J	0.07 U,J	1.3	340
MW-9B	0.80 I	2.0 U	3.0 I	7,800	0.01 U	6.0 U	38	0.06 U	3.2	490	0.49 U	20 J	1,600
MW-10A	0.50 U	2.0 U	2.0 U	16,000	0.01 U	6.0 U	25	0.06 U	1.8 I	17	0.05 U	23 J	590
MW-10B	1.3 I	2.0 U	3.1 I	11,000	0.01 U	6.0 U	17	0.06 U	2.3	5.6 I	0.10 U	7.5	850
MW-11A	0.50 U	2.0 U	2.0 U	11,000	0.01 U	6.0 U	18	0.06 U	3.9	14	0.05 U	4.5	320
MW-11B	0.50 U	2.0 U	2.0 U	460	0.01 U	6.0 U	16	0.06 U	1.2 I	25	0.05 U	0.04 U	72
MW-12A	0.50 I	2.0 U	4.7 I	12,000	0.01 U	9.8 I	270	0.08 I	7.4	500	0.25 U	7.7	890
MW-12B	0.50 U	2.0 U	2.0 U	660	0.01 U	6.0 U	7.3	0.06 U	0.91 I	14	0.05 U	0.04 U	60
MW-13A	0.50 U	2.0 U	2.0 U	29,000	0.01 U	6.0 U	500	0.06 U	8.4	990	1.0 U	11	1,900
MW-13B	0.50 U	2.0 U	2.0 U	1,100	0.01 U	6.0 U	10	0.06 U	0.71 U	22	0.05 U	0.04 U	77
MW-16AR	0.50 U	3.1 I	2.0 U	560	0.01 I	6.0 U	140	0.06 U	13	210	0.10 U	4.8	760
MW-16BR	0.50 U	2.0 U	2.0 U	2,500	0.01 U	6.0 U	7.6	0.06 U	0.71 U	25	0.05 U	0.30	76
MW-17AR	0.50 U	2.0 U	2.4 I	14,000	0.01 U	7.6 I	71	0.06 U	5.8	110	0.73	3.7	620
MW-17BR	0.50 U	2.0 U	2.0 U	560	0.01 U	6.0 U	15	0.06 U	1.1 I	13	0.08 I	0.18	81
MW-22AR	0.50 U	2.7 I	2.0 U	20,000	0.01 U	6.0 U	32	0.06 U	3.1	77	0.05 U	3.3	610
MW-22BR	0.50 U	2.0 U	2.0 U	1,100	0.01 U	6.0 U	6.9	0.06 U	0.97 I	14	0.05 U	0.18 J	58
MW-23A	0.50 U	24	2.0 U	360 I	0.01 U	18 I	500	0.06 U	15	870	1.0 U	42	1,900
MW-23B	0.50 I	2.0 U	2.0 U	1,000	0.01 U	6.0 U	170	0.06 U	12	250	0.10 U	13	740
MW-24A	0.50 U	2.0 U	2.0 U	810	0.01 I	6.0 U	15	0.06 U	1.2 I	23	0.05 I	0.04 U	94
MW-24B	0.50 U	2.0 U	2.0 U	490	0.01 U	6.0 U	5.3	0.06 U	0.71 U	8.9 J	0.05 U,J	0.04 U	38
MW-25A	1.1 I	2.0 U	2.5 I	18,000	0.01 U	6.0 U	64	0.06 U	4.7	110	0.10 U	7.9	610
MW-25B	0.50 U	2.0 U	2.0 U	1,300	0.01 U	6.0 U	15	0.06 U	1.6 I	26	0.05 U	0.08	130
MW-27A	0.50 U	2.0 U	2.0 U	470	0.01 U	6.0 U	14	0.06 U	9.1	26	0.73	4.0	130
MW-27B	0.50 U	2.0 U	2.0 U	470	0.01 U	6.0 U	25	0.06 U	1.4 I	33	0.05 U	0.11	100
MW-28A	0.50 U	2.0 U	2.0 U	6,700	0.01 U	6.4 I	160	0.06 U	0.72 I	430	0.10 U	14	720
MW-28B	0.50 U	2.0 U	2.0 U	1,200	0.01 U	6.0 U	17	0.06 U	2.0 I	37	0.07 I	0.10	110
MW-29A	0.50 U	2.0 I	2.0 U	2,200	0.01 U	6.0 U	15	0.06 I	10	18	4.6	0.17	220
MW-29B	0.50 U	2.0 U	2.0 U	2,900	0.01 U	6.0 U	18	0.06 U	2.2	31	0.05 I	0.05 I	160
MW-30A	0.50 U	2.0 U	2.0 U	1,600	0.01 U	6.0 U	27	0.06 U	2.0 I	33	0.05 U	1.0	200
MW-30B	0.50 U	2.0 U	2.0 U	1,600	0.01 U	6.0 U	7.7	0.06 U	0.93 I	22	0.05 U	0.07	63
MW-31A	4.8	3.8 I	23	80,000	0.01 U	16 I	21	0.06 U	11	24	0.10 U	8.8	870
MW-31A (Filtered)	3.7	2.0 U	23	80,000	0.01 U	16 I	22	0.06 U	11 I	NM	NM	NM	NM
MW-31B	2.0	2.0 U	28	70,000	0.01 U	20 I	31	0.06 U	4.0 I	21 I	0.25 U	1.4	1,200
CW-1A	0.50 U	5.8 I	2.0 U	8,000	0.01 U	6.0 U	24	0.06 U	4.3	35 J	0.05 U	1.3	340
CW-2A	0.50 U	3.8 I	2.0 U	330 I	0.01 U	6.0 U	230	0.06 U	4.3	330	0.50 U	23	1,200
CW-3A	0.50 U	17	2.0 U	2,300	0.01 U	10 I	400	0.06 U	18	550	0.50 U	21	1,600
CW-3A Duplicate (Dup-2)	0.50 U	17	2.0 U	2,300	0.01 U	9.5 I	390	0.06 U	3.7	490	0.50 U	20	1,600

NOTES: Reported value exceeds the applicable GCTL, PDWS, or SDWS
U indicates the sample was analyzed but not detected above the laboratory method detection limit (MDL).
I indicates reported value is between the laboratory MDL and the laboratory practical quantitation limit.
O indicates a laboratory MDL greater than the GCTL.
Q indicates a missed hold time.
J indicates an estimated result
NM indicates parameter not measured
GCTL indicates Groundwater Cleanup Target Level
PDWS indicates Primary Drinking Water Standard
SDWS indicates Secondary Drinking Water Standard

Table 4

(1 of 4)

GROUNDWATER LEVEL MEASUREMENTS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: November 18, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions: Sunny ~70°F

Well ID	Time	TOC Elevation(1)	Depth to Water (ft)	Well Depth (ft)(2)	GW Elevation	Field Observations
DP-1	Piezometer Abandoned October 3, 2003					
DP-2	Piezometer Abandoned October 3, 2003					
DP-3	Piezometer Abandoned January 16, 2006					
DP-4	Piezometer Abandoned January 16, 2006					
DP-5	Piezometer Abandoned July 10, 2007					
DP-6	Piezometer Abandoned July 10, 2007					
DP-7	Piezometer Abandoned July 10, 2007					
DP-8	Piezometer Abandoned July 10, 2007					
DP-9	Piezometer Abandoned July 10, 2007					
DP-10	Piezometer Abandoned July 10, 2007					
DP-11	Piezometer Abandoned July 10, 2007					
DP-12	Piezometer Abandoned July 10, 2007					
DP-13	Piezometer Abandoned July 11, 2007					
DP-14	Piezometer Abandoned March 2, 2015					
DP-15	Piezometer Abandoned March 2, 2015					
DP-16	Piezometer Abandoned December 30, 2015					
DP-17	Piezometer Abandoned December 30, 2015					
DP-18	13:06	84.38	8.59	52.87	75.79	
DP-19	13:13	84.34	9.57	18.20	74.77	
DP-20	12:53	83.07	5.67	18.35	77.40	
DP-21	12:52	83.00	5.68	53.68	77.32	
DP-22	15:34	81.00	5.04	18.63	75.96	
DP-23	15:35	81.27	4.95	53.73	76.32	
DP-24	Piezometer Abandoned December 30, 2015					
SZ-1	Piezometer Abandoned July 10, 2007					
SZ-2	12:55	83.16	7.04	75.39	76.12	
SZ-3	15:32	81.27	5.78	78.85	75.49	
MW-1A	13:38	95.12	17.45	23.15	77.67	
MW-1B	13:36	95.00	17.37	48.07	77.63	
MW-1C	13:35	95.18	17.60	74.58	77.58	
MW-2A	13:44	95.21	17.52	22.84	77.69	
MW-2B	13:43	95.17	17.50	48.26	77.67	
MW-2C	13:41	95.32	17.69	68.57	77.63	
MW-3A	13:50	94.64	16.80	22.97	77.84	
MW-3B	13:48	94.68	16.81	47.88	77.87	
MW-3C	13:47	94.66	16.85	68.95	77.81	

Table 4

(2 of 4)

GROUNDWATER LEVEL MEASUREMENTS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: November 18, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions: Sunny ~70°F

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-4A	14:01	95.48	17.54	23.28	77.94	
MW-4B	14:02	95.18	17.26	47.67	77.92	
MW-4C	14:03	95.39	17.59	72.70	77.80	
MW-5A	14:09	95.32	17.64	22.69	77.68	
MW-5B	14:08	95.30	17.73	47.32	77.57	
MW-5C	14:07	95.39	18.05	73.25	77.34	
MW-6A	14:15	94.72	17.89	22.60	76.83	
MW-6B	14:14	94.60	17.76	47.71	76.84	
MW-6C	14:13	94.58	17.84	73.25	76.74	
MW-7A	14:22	95.48	18.66	23.53	76.82	
MW-7B	14:16	95.27	18.44	48.14	76.83	
MW-7C	14:16	94.93	18.19	73.49	76.74	
MW-8A	14:24	94.67	17.89	22.71	76.78	
MW-8B	14:25	94.58	17.80	49.48	76.78	
MW-8C	14:27	94.50	17.89	73.95	76.61	
MW-9A	14:29	94.66	18.02	22.53	76.64	
MW-9B	14:31	94.63	18.02	49.30	76.61	
MW-9C	14:31	94.54	18.04	73.96	76.50	
MW-10A	14:35	96.25	19.46	22.37	76.79	
MW-10B	14:36	96.23	19.47	48.47	76.76	
MW-10C	14:37	96.36	19.74	73.76	76.62	
MW-11A	14:40	93.56	16.64	22.83	76.92	
MW-11B	14:42	93.59	16.96	48.03	76.63	
MW-11C	14:43	93.65	17.03	73.72	76.62	
MW-12A	14:46	95.10	18.19	23.20	76.91	
MW-12B	14:48	95.01	18.29	49.17	76.72	
MW-12C	14:49	95.10	18.43	73.75	76.67	
MW-13A	14:52	95.19	18.19	22.73	77.00	
MW-13B	14:54	95.12	18.28	47.43	76.84	
MW-13C	14:55	95.04	18.26	73.20	76.78	
MW-14A	Monitoring Well Abandoned July 10, 2007					
MW-14B	Monitoring Well Abandoned July 10, 2007					
MW-14C	Monitoring Well Abandoned July 10, 2007					
MW-15A	Monitoring Well Abandoned July 10, 2007					
MW-15B	Monitoring Well Abandoned July 10, 2007					
MW-15C	Monitoring Well Abandoned July 10, 2007					

Table 4

(3 of 4)

GROUNDWATER LEVEL MEASUREMENTS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: November 18, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions: Sunny ~70°F

Well ID	Time	TOC Elevation(1)	Depth to Water (ft)	Well Depth (ft)(2)	GW Elevation	Field Observations
MW-16A	Monitoring Well Abandoned June 24, 2013					
MW-16B	Monitoring Well Abandoned June 24, 2013					
MW-16C	Monitoring Well Abandoned June 24, 2013					
MW-16AR	14:59	95.01	17.97	23.95	77.04	
MW-16BR	15:01	94.97	17.99	46.55	76.98	
MW-16CR	15:02	95.03	18.13	75.25	76.90	
MW-17AR	15:05	94.84	17.97	24.03	76.87	
MW-17BR	15:07	94.78	17.90	48.40	76.88	
MW-17A	Monitoring Well Abandoned March 5, 2014					
MW-17B	Monitoring Well Abandoned March 5, 2014					
MW-17C	Monitoring Well Abandoned March 5, 2014					
MW-18A	Monitoring Well Abandoned March 5, 2014					
MW-18B	Monitoring Well Abandoned March 5, 2014					
MW-18C	Monitoring Well Abandoned March 5, 2014					
MW-19A	Monitoring Well Abandoned March 5, 2014					
MW-19B	Monitoring Well Abandoned March 5, 2014					
MW-19C	Monitoring Well Abandoned March 5, 2014					
MW-20A	Monitoring Well Abandoned June 24, 2013					
MW-20B	Monitoring Well Abandoned June 24, 2013					
MW-20C	Monitoring Well Abandoned June 24, 2013					
MW-21A	Monitoring Well Abandoned March 5, 2014					
MW-21B	Monitoring Well Abandoned March 5, 2014					
MW-21C	Monitoring Well Abandoned March 5, 2014					
MW-22A	Monitoring Well Abandoned November 11, 2011					
MW-22B	Monitoring Well Abandoned November 11, 2011					
MW-22C	Monitoring Well Abandoned November 11, 2011					
MW-22AR	13:26	95.00	18.77	23.59	76.23	
MW-22BR	13:24	94.86	18.69	46.06	76.17	
MW-22CR	13:23	95.13	18.91	66.50	76.22	
MW-23A	13:32	97.90	20.53	27.95	77.37	
MW-23B	13:30	97.91	20.53	42.98	77.38	
MW-23C	13:29	97.93	20.58	67.19	77.35	
MW-24A	13:15	87.06	11.57	23.41	75.49	
MW-24B	13:16	87.05	11.55	43.05	75.50	
MW-25A	13:02	86.99	9.75	23.36	77.24	
MW-25B	13:00	86.67	9.31	41.41	77.36	
MW-26A	Monitoring Well Abandoned June 15, 2016					
MW-26B	Monitoring Well Abandoned June 15, 2016					

Table 4

(4 of 4)

GROUNDWATER LEVEL MEASUREMENTS
31st SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: November 18, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions: Sunny ~70°F

Well ID	Time	TOC Elevation(1)	Depth to Water (ft)	Well Depth (ft)(2)	GW Elevation	Field Observations
MW-24A Exp	12:45	86.97	9.69	24.14	77.28	
MW-25A Exp	15:38	82.36	5.41	24.71	76.95	
MW-26A Exp	12:05	82.01	5.40	24.03	76.61	
MW-27C Exp	12:14	81.66	5.11	58.37	76.55	
MW-27A	15:23	94.68	17.99	23.54	76.69	
MW-27B	15:24	94.66	18.06	46.50	76.60	
MW-28A	15:19	94.77	17.79	23.84	76.98	
MW-28B	15:20	94.68	17.92	48.82	76.76	
MW-29A	15:13	94.88	17.63	23.65	77.25	
MW-29B	15:15	94.67	17.83	48.90	76.84	
MW-30A	13:19	96.19	20.51	20.50	75.68	
MW-30B	13:20	96.12	20.45	44.00	75.67	
MW-31A	15:27	94.15	17.61	25.02	76.54	
MW-31B	15:29	93.88	17.60	46.34	76.28	
CW-1A	13:55	84.53	6.79	18.46	77.74	
CW-2A	15:52	82.81	6.28	18.48	76.53	
CW-3A	15:48	81.89	5.53	18.42	76.36	

Notes: Well caps removed site wide and wells allowed to stabilize prior to measurements.
(1) Elevations represent feet in National Geodetic Vertical Datum of 1929
(2) Monitoring well total depths were measured following the November 2016 and June 2019 (MW-30A/B) water quality monitoring event

FIGURES

Legend

- A Zone Monitoring Well Location
- B Zone Monitoring Well Location
- C Zone Monitoring Well Location
- A Zone Piezometer Location
- B Zone Piezometer Location
- C Zone Piezometer Location
- Compliance Monitoring Well
- Abandoned or Destroyed Monitoring Well Location
- Surface Water Sample Location
- Property Boundary

Note:
2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Path: (Titusville-01\Data)T:\GIS\FW2070_JED\MXDs\2019011\Site_Map.mxd 25 June 2019 JRB

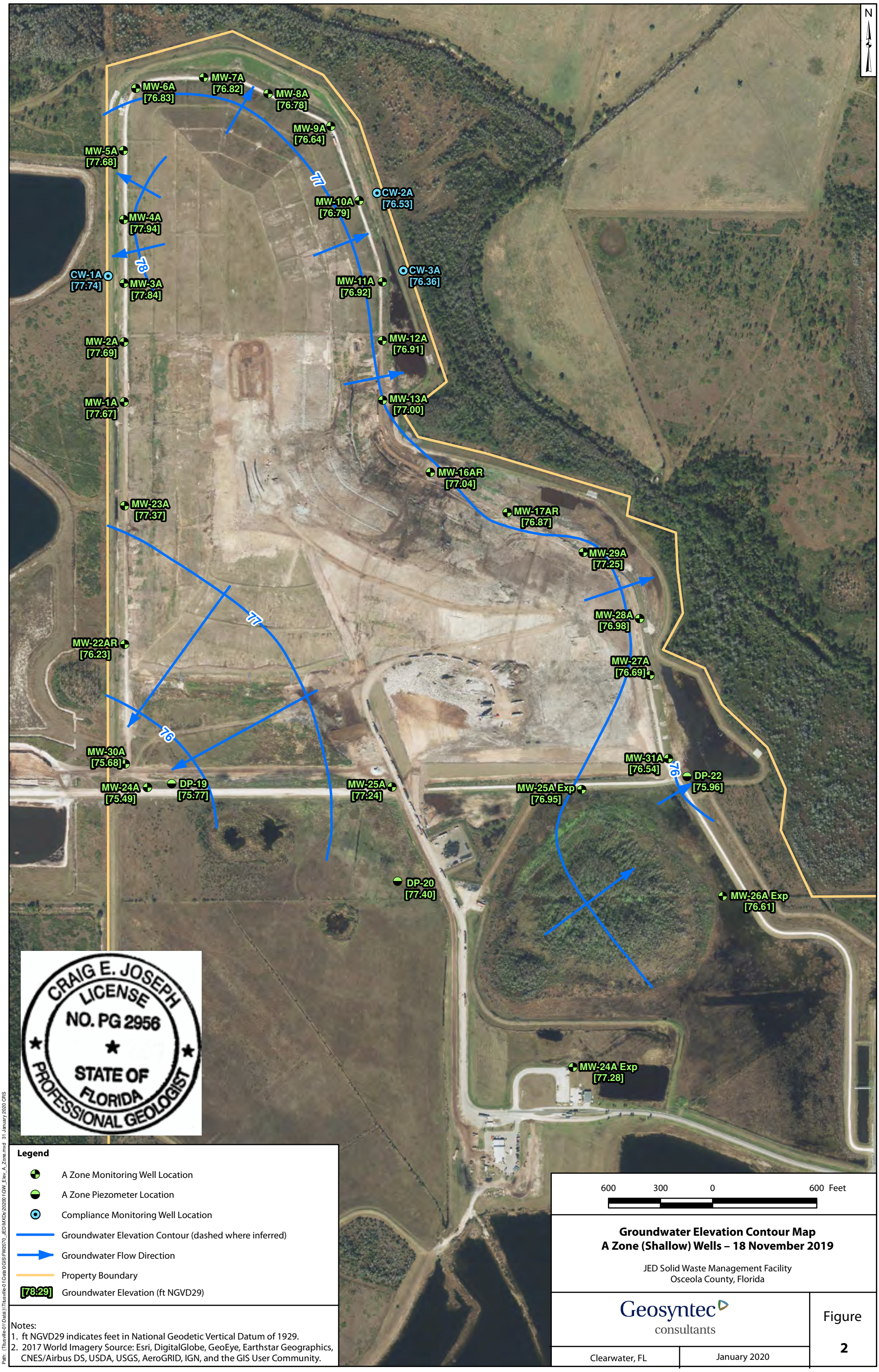
Site Map

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | February 2020

Figure 1



Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Groundwater Elevation Contour Map
A Zone (Shallow) Wells – 18 November 2019

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | January 2020

Figure 2

Path: (Titusville-01\Data)\\Titusville-01\Data\GIS\PW2070_JED\MXDs\2020\1\GW_Elev_A_Zone.mxd 31 January 2020 CRS

Legend

- B Zone Monitoring Well Location
- B Zone Piezometer Location
- Groundwater Elevation Contour (dashed where inferred)
- Groundwater Flow Direction
- Property Boundary
- [78.25] Groundwater Elevation (ft NGVD29)

Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

600 300 0 600 Feet

Groundwater Elevation Contour Map
B Zone (Intermediate) Wells – 18 November 2019

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | January 2020

Figure 3

Path: (Titusville-01\Data)\\Titusville-01\Data\GIS\FW2070_JED\MXDs\202001\GW_Elev_B_Zone.mxd 31 January 2020 CRS

CRAIG E. JOSEPH
LICENSE
NO. PG 2956
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

Legend

- C Zone Monitoring Well Location
- C Zone Piezometer Location
- Groundwater Elevation Contour (dashed where inferred)
- Groundwater Flow Direction
- Property Boundary
- [78.11] Groundwater Elevation (ft NGVD29)

Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

600 300 0 600 Feet

Groundwater Elevation Contour Map
C Zone (Intermediate) Wells – 18 November 2019

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | January 2020

Figure 4

Path: (Titusville-01\Data\)\\Titusville-01\Data\GIS\FW2070_JED\MXDs\202001\GW_Elev_C_Zone.mxd 31 January 2020 CRS

APPENDIX A

Water Quality Monitoring Certification
FDEP Form 62-701.900(31)

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 J.E.D. SOLID WASTE MANAGEMENT FACILITY

Address 1501 OMNI WAY

City SAINT CLOUD Zip 34773 County OSCEOLA

Telephone Number (813) 388-1026

(2) WACS Facility ID 89544

(3) DEP Permit Number 0199726-033-SO-01

(4) Authorized Representative's Name KIRK WILLS Title ENGINEER

Address 5135 MADISON AVENUE

City TAMPA Zip 33619 County HILLSBOROUGH

Telephone Number (813) 388-1026

Email address (if available) KIRK.WILLS@WASTECONNECTIONS.COM

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.

2/11/2020 (Date)

Kirk Wills (Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization GEOSYNTEC CONSULTANTS, INC.

Analytical Lab NELAC / HRS Certification # E82574

Lab Name ADVANCED ENVIRONMENTAL LABORATORIES, INC.

Address 6681 SOUTHPOINT PARKWAY

Phone Number (813) 388-1026

Email address (if available) kbortle@aellab.com

APPENDIX B
Monitoring Well Sampling Logs

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-10A	SAMPLE ID: 19157-MW-10A	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.1 feet to 22.1 feet	STATIC DEPTH TO WATER (feet): 19.61	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 – 19.61 feet) X 0.16 gallons/foot = 0.40 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): 20.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.2	PURGING INITIATED AT: 1009	PURGING ENDED AT: 1058	TOTAL VOLUME PURGED (gallons): 3.43

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)	ORP (mV)
1054	3.15	3.15	0.07	20.41	4.81	24.80	874	0.22	1.50	Clear	9.8
1056	0.14	3.29	0.07	20.36	4.80	24.68	874	0.30	1.56	Clear	-5.4
1058	0.14	3.43	0.07	20.36	4.80	24.66	873	0.25	1.16	Clear	-13.8

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1110
PUMP OR TUBING DEPTH IN WELL (feet): 21.2	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19157-MW-10A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	292
19157-MW-10A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	292
19157-MW-10A	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	292
19157-MW-10A	1	PE	250 mL	None	None	4.80	CL/NO3/TDS	APP	292

REMARKS:
Odor: Odor present

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-10B	SAMPLE ID: 19157-MW-10B	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38.3 feet to 48.3 feet	STATIC DEPTH TO WATER (feet): 19.61	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1007	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (gallons): 1.33

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)	ORP (mV)
1016	0.63	0.63	0.07	19.77	4.06	25.38	874	0.14	0.81	Clear	85.3
1018	0.14	0.77	0.07	19.77	4.01	25.43	928	0.12	0.33	Clear	75.9
1020	0.14	0.91	0.07	19.77	3.99	25.40	973	0.11	0.33	Clear	69.4
1022	0.14	1.05	0.07	19.77	3.96	25.44	997	0.09	0.27	Clear	63.5
1024	0.14	1.19	0.07	19.77	3.93	25.49	1017	0.14	0.21	Clear	56.7
1026	0.14	1.33	0.07	19.77	3.93	25.50	1025	0.16	0.28	Clear	52.4

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1047
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
19157-MW-10B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	300
19157-MW-10B	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	300
19157-MW-10B	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	300
19157-MW-10B	1	PE	250 mL	None	None	3.93	CL/NO3/TDS	APP	300

REMARKS: DUP-2 taken at 0001
Odor: Odor present

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-11A	SAMPLE ID: 19157-MW-11A	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (22.8 feet – 16.87 feet) X 0.16 gallons/foot = 0.95 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): 19.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.5	PURGING INITIATED AT: 0817	PURGING ENDED AT: 0859	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)	ORP (mV)
0859	0.99	0.99	0.01	19.72	5.21	27.19	479	2.04	9.83	Clear	106.1

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: 0925
PUMP OR TUBING DEPTH IN WELL (feet): 21.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19157-	MW-11A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	75
19157-	MW11A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	75
19157-	MW-11A	1	PE	500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	75
19157-	MW-11A	1	PE	500 mL	None	None	5.21	CL/NO3/TDS	APP	75

REMARKS: Well purged dry at 0833 @ 0.06 gpm. Gave time to recharge and purged again at 0858 at <100mL/min.
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-11B	SAMPLE ID: 19157-MW-11B	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.9 feet to 47.9 feet	STATIC DEPTH TO WATER (feet): 17.10	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0814	PURGING ENDED AT: 0833	TOTAL VOLUME PURGED (gallons): 1.14

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)	ORP (mV)
0829	0.90	0.90	0.06	17.33	4.60	27.03	115	0.36	184	Clear	11.3
0831	0.12	1.02	0.06	17.33	4.62	27.07	114	0.28	2.29	Clear	4.7
0833	0.12	1.14	0.06	17.33	4.62	27.08	113	0.23	2.36	Clear	2.2

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0835	SAMPLING ENDED AT: 0845
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19157	MW-11B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	260
19157	MW-11B	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	260
19157	MW-11B	1	PE	500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	260
19157	MW-11B	1	PE	500 mL	None	None	4.62	CL/NO3/TDS	APP	260

REMARKS:
Odor: ✓ Moderate Odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, Florida 34733
WELL NO: MW-12A	SAMPLE ID: 19156-MW-12A — DATE: 5-16-19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 18.25	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 feet – 18.25 feet) X 0.16 gallons/foot = 0.76 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): 20.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.9	PURGING INITIATED AT: 1321	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 2.04

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)	ORP (mV)
1349	1.68	1.68	0.06	18.78	4.04	25.52	818	0.91	0.27	Clear	92.4
1351	0.12	1.80	0.06	18.78	4.04	25.34	818	0.55	0.36	Clear	87.1
1353	0.12	1.92	0.06	18.78	4.04	25.21	818	0.48	0.36	Clear	85.8
1355	0.12	2.04	0.06	18.78	4.04	25.17	818	0.58	0.31	Clear	83.9

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: Brent Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1402
PUMP OR TUBING DEPTH IN WELL (feet): 20.9	TUBING MATERIAL CODE: HDPE	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 (including wet ice)			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			
19156	MW-12A	3	CG	40mL	HCl / None	–	–	VOA/EDB	APP	226
19156	MW-12A	1	PE	500mL	HNO_3	–	–	Metals	APP	226
19156	MW-12A	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	226
19156	MW-12A	1	PE	500mL	None	–	–	Cl/NO_3/TDS	APP	226

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Land fill	SITE LOCATION: 1501 Omni Way, St. Cloud, Florida, 34773
WELL NO: MW-12B	SAMPLE ID: 19156-MW-12B — DATE: 5-16-19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 18.34	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1319	PURGING ENDED AT: 1333	TOTAL VOLUME PURGED (gallons): 0.84

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)	ORP (mV)
1329	0.60	0.60	0.06	18.50	4.54	25.82	76	0.78	1.20	Clear	130.0
1331	0.12	0.72	0.06	18.50	4.58	25.84	77	0.22	1.66	Clear	127.7
1333	0.12	0.84	0.06	18.50	4.57	25.89	78	0.18	1.58	Clear	127.4

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: Bane Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1337	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
19156-MW-12B	3	CG	40mL	HCl/None	–	–	VOA/EDB	APP	232
19156-MW-12B	1	PE	500mL	HNO_3	–	–	Metals	APP	232
19156-MW-12B	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	232
19156-MW-12B	1	PE	500mL	None	–	–	Cl/NO_3/TDS	APP	232

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-13A	SAMPLE ID: 19156-MW-13A — DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 18.35	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)
= (22.5 feet – 18.35 feet) X 0.16 gallons/foot = 0.664 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ 20.4 (M)	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ 21.1 (M)	PURGING INITIATED AT: 1056	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 2.28

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)	ORP (mV)
1147	2.04	2.04	0.04	19.77	4.88	26.86	2892	0.10	7.11	Clear	29.9
1149	0.08	2.12	0.04	19.67	4.88	26.83	2875	0.16	3.11	Clear	9.9
1151	0.08	2.20	0.04	19.71	4.88	26.65	2868	0.09	2.11	Clear	15.9
1153	0.08	2.28	0.04	19.68	4.88	26.79	2864	0.14	1.79	Clear	7.5

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1155	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ 21.1 (M)	TUBING MATERIAL CODE: HDPE	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 (including wet ice)			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			
19156-MW-13A	3	CG	40mL	HCl / None	–	–	VOA / EDB	APP	170
19156-MW-13A	1	PE	500mL	HNO_3	–	–	Metals	APP	170
19156-MW-13A	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	170
19156-MW-13A	1	PE	500mL	None	–	–	Cl / NO_3 / TDS	APP	170

REMARKS: Collected DUP-1. Sample time 0001 on bottle.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-13B	SAMPLE ID: 19156-MW-13B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.2 feet to 47.2 feet	STATIC DEPTH TO WATER (feet): 18.35	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)
= (feet – feet) X ~~0.16~~ 0.14 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1058	PURGING ENDED AT: 1226	TOTAL VOLUME PURGED (gallons): 5.28

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)	ORP (mV)
1222	5.04	5.04	0.06	18.44	4.49	27.27	108	0.20	2.76	Clear	13.1
1224	0.12	5.16	0.06	18.44	4.49	27.07	104	0.20	2.60	Clear	19.8
1226	0.12	5.28	0.06	18.44	4.49	27.17	106	0.20	2.87	Clear	19.9

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: Beau Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: HDPE	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 (including wet ice)			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			
19156-MW-13B	3	CG	40mL	HCl	–	–	VOA/EDB	APP	240
19156-MW-13B	1	PE	500mL	HNO_3	–	–	Metals	APP	240
19156-MW-13B	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	240
19156-MW-13B	1	PE	500mL	None	–	–	Cl/NO_3/TDS	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: CW-2A	SAMPLE ID: 19137 - CW - 2A	DATE: 5/17/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 6.35	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x 3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0905	1.0	1.0	0.10	6.56	5.23	22.93	1852	1.40	3.40	Yellow	-53.5
0909	0.4	1.4	0.10	6.57	5.16	22.87	1858	0.46	3.44	"	-57.5
0913	0.4	1.8	0.10	6.57	5.12	22.86	1859	0.39	3.72	"	-61.1
0917	0.4	2.2	0.10	6.57	5.05	22.87	1863	0.37	3.16	"	-62.4
					within 0.2SU						

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0917	SAMPLING ENDED AT: 0922
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: **HDPE**	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N)(replaced)	DUPLICATE: Y (N)	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
19137-CW-2A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
19137-CW-2A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	5.05	CL/NO3/TDS	APP	~380

REMARKS: EQ-2 collected @ 10:00
Odor: Sulfur odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: CW-3A	SAMPLE ID: 19137 - CW - 3A	DATE: 5/17/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 5.58	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 0752	PURGING ENDED AT: 0830	TOTAL VOLUME PURGED (gallons): 4.0

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)	ORP (mV)
0802	0.20	1.20	0.12	5.91	4.80	22.60	2317	1.39	7.19	Yellow	-71.2
0806	0.40	1.60	0.10	5.84	4.82	22.62	2320	1.02	8.89	"	-65.7
0810	0.40	2.00	0.10	5.84	4.98	22.60	2358	0.87	8.13	"	-70.2
0814	0.40	2.40	0.10	5.84	5.04	22.63	2370	0.80	7.78	"	-80.3
0818	0.40	2.80	0.10	5.84	5.03	22.64	2371	0.79	8.00	"	-81.1
0822	0.40	3.20	0.10	5.84	5.14	22.67	2413	0.78	6.33	"	-87.8
0826	0.40	3.60	0.10	5.84	5.18	22.67	2420	0.75	4.77	"	-91.3
0830	0.40	4.00	0.10	5.84	5.16	22.69	2420	0.72	4.31	"	-84.3

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: ~~0833~~ 0830	SAMPLING ENDED AT: 0835
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19137-CW-3A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
19137-CW-3A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	5.84	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-24A	SAMPLE ID: 19136-MW-24A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 13.49	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 feet – 13.49 feet) X 0.16 gallons/foot = 1.52 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME ×3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 22 feet) + 0.1 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 1322	PURGING ENDED AT: 1408	TOTAL VOLUME PURGED (gallons): 5.7

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)	ORP (mV)
1356	4.50	4.50	0.13	13.58	4.22	24.36	184	0.14	0.43	Clear	-4.0
1400	0.40	4.90	0.10	13.54	4.23	24.39	180	0.15	0.24	"	-11.0
1404	0.40	5.30	0.10	13.54	4.23	24.45	183	0.14	0.36	"	-12.5
1408	0.40	5.70	0.10	13.54	4.23	24.45	184	0.12	0.35	"	-15.7

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1408	SAMPLING ENDED AT: 1413
PUMP OR TUBING DEPTH IN WELL (feet): 19	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-24A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~375
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~375
↓	1	PE	250 mL	None	None	4.23	CL/NO3/TDS	APP	~375

REMARKS:
Odor: Petroleum odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-24B	SAMPLE ID: 19136-MW-24B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 33 feet to 43 feet	STATIC DEPTH TO WATER (feet): 13.48	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0014 gallons/foot X 82 feet) + 0.1 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1346	TOTAL VOLUME PURGED (gallons): 2.8

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)	ORP (mV)
1330	1.20	1.20	0.12	13.80	4.05	24.36	61	1.05	4.70	Clear	30.7
1334	0.40	1.60	0.10	13.72	4.13	24.45	61	0.52	4.10	"	18.5
1338	0.40	2.00	0.10	13.72	4.24	24.56	61	0.33	3.54	"	12.0
1342	0.40	2.40	0.10	13.72	4.23	24.57	60	0.25	3.33	"	13.5
1346	0.40	2.80	0.10	13.72	4.23	24.64	61	0.20	3.24	"	10.5

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: Neil Stanley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1346	SAMPLING ENDED AT: 1351
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-24B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~375
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~375
↓	1	PE	250 mL	None	None	4.23	CL/NO3/TDS	APP	~375

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-22AR	SAMPLE ID: 1913C-MW-22AR	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.0 feet to 33.0 feet	STATIC DEPTH TO WATER (feet): 21.17	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)
= (33 feet – 21.17 feet) X 0.16 gallons/foot = 0.29 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): 22.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.9	PURGING INITIATED AT: 1256	PURGING ENDED AT: 1332	TOTAL VOLUME PURGED (gallons): 3.22

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1220	2.20	2.20	0.085	22.80	4.28	27.10	788	0.46	0.61	V.SL. Yellow	25.5
1224	0.34	2.54	0.085	22.80	4.30	27.14	795	0.38	0.68	"	20.4
1228	0.34	2.88	0.085	22.80	4.31	27.09	798	0.39	0.47	"	22.2
1232	0.34	3.22	0.085	22.80	4.32	27.11	800	0.36	0.36	"	21.3

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 22.9	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
1913C-MW-22AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~325
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~325
	1	PE	250 mL	None	None	4.32	CL/NO3/TDS	APP	~325

REMARKS:
Odor: Slight reducing odor.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-22BR	SAMPLE ID: 19136-MW-22BR	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 45.5 feet	STATIC DEPTH TO WATER (feet): 21.12	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0014 gallons/foot X 43.5 feet) + 0.1 gallons = 0.48 gallons ×3

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	PURGING INITIATED AT: 1148	PURGING ENDED AT: 1210	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
1158	1.20	1.20	0.12	21.21	4.64	27.86	83	1.24	3.20	clear	-27.1
1202	0.40	1.60	0.10	21.19	4.45	27.93	87	0.47	1.72	"	12.4
1206	0.40	2.00	0.10	21.19	4.46	27.84	89	0.31	2.58	"	20.5
1210	0.40	2.40	0.10	21.19	4.47	27.90	88	0.22	1.86	"	27.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 40.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 380
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 380
	1	PE	250 mL	None	None	4.47	CL/NO3/TDS	APP	~ 380

REMARKS: Slight orange fouling in purge water
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-9A	SAMPLE ID: 19136-MW-9A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.4 feet to 22.4 feet	STATIC DEPTH TO WATER (feet): 18.11	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 – 18.11 feet) X 0.16 gallons/foot = 0.69 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	PURGING INITIATED AT: 1018	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 3.4

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)	ORP (mV)
1048	0.40	0.40	0.08	18.78	5.18	26.51	215	0.38	8.61	Yellow	107.3
1052	0.32	0.72	0.08	18.78	5.18	26.56	214	0.25	9.03	"	-111.1
1056	0.32	3.04	0.08	18.78	5.17	26.55	214	0.24	8.21	"	-93.0
1100	0.32	3.36	0.08	18.78	5.18	26.48	216	0.23	8.25	"	-110.8

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1106
PUMP OR TUBING DEPTH IN WELL (feet): 20.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19163-MW-9A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
✓	1	PE	250 mL	None	None	5.18	CL/NO3/TDS	APP	~300

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-9B	SAMPLE ID: 19136-MW-9B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 39.1 feet to 49.1 feet	STATIC DEPTH TO WATER (feet): 18.10	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 47 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1016	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
1026	1.0	1.0	0.10	18.64	4.16	26.54	646	1.11	0.52	Clear	333
1030	0.4	1.4	0.10	18.65	4.14	26.46	643	0.45	0.36	"	31.2
1034	0.4	1.8	0.10	18.65	4.15	26.44	643	0.33	0.33	"	28.4
1038	0.4	2.2	0.10	18.64	4.14	26.46	641	0.37	0.35	"	27.5

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1043
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
19136-MW-9B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
	1	PE	250 mL	None	None	4.14	CL/NO3/TDS	APP	~380

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-8A	SAMPLE ID: 19136-MW-8A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 17.89	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)
= (22.5 feet – 17.89 feet) X 0.16 gallons/foot = 0.74 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): 20.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0944	TOTAL VOLUME PURGED (gallons): 4.7

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)	ORP (mV)
0932	3.40	3.40	0.11	19.53	4.22	23.79	1400	0.36	1.47	clear	-61.9
0936	0.44	3.84	0.11	19.53	4.23	23.81	1402	0.33	0.75	V.S.Yellow	-65.6
0940	0.44	4.28	0.11	19.53	4.23	23.83	1401	0.33	0.78	"	-71.1
0944	0.44	4.72	0.11	19.52	4.22	23.92	1401	0.31	0.60	"	-59.8

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0944	SAMPLING ENDED AT: 0949
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-8A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
	1	PE	250 mL	None	None	4.22	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-8B	SAMPLE ID: 19136-MW-8B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 39.6 feet to 49.6 feet	STATIC DEPTH TO WATER (feet): 17.83	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0922	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
0910	1.10	1.10	0.11	18.73	4.08	24.55	1256	0.77	2.44	clear	-28.2
0914	0.44	1.54	0.11	18.74	4.05	24.59	1259	0.43	1.94	"	-27.9
0918	0.44	1.98	0.11	18.74	4.06	24.58	1263	0.40	1.92	"	-34.2
0922	0.44	2.42	0.11	18.73	4.06	24.63	1269	0.36	1.35	"	-25.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0922	SAMPLING ENDED AT: 0927
PUMP OR TUBING DEPTH IN WELL (feet): 44.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-8B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.06	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-7A	SAMPLE ID: 19136-MW-7A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.3 feet to 23.3 feet	STATIC DEPTH TO WATER (feet): 18.80	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)
= (23.3 feet – 18.80 feet) X 0.16 gallons/foot = 0.72 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 = ~~3~~ ~3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0756	PURGING ENDED AT: 0832	TOTAL VOLUME PURGED (gallons): 3.9

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)	ORP (mV)
0820	2.60	2.60	0.11	18.75	4.99	23.51	356	0.86	0.34	clear	-90.2
0824	0.44	3.04	0.11	18.75	4.99	23.51	353	0.84	0.38	"	-87.2
0828	0.44	3.48	0.11	18.75	4.99	23.52	352	0.82	0.34	"	-89.1
0832	0.44	3.93	0.11	18.75	4.99	23.53	351	0.77	0.35	"	-88.5

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: Nal Stuply / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0832	SAMPLING ENDED AT: 0837
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-7A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.99	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-7B	SAMPLE ID: 19136-MW-7B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 47.5 feet	STATIC DEPTH TO WATER (feet): 18.38	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.5	PURGING INITIATED AT: 0752	PURGING ENDED AT: 0814	TOTAL VOLUME PURGED (gallons): 1.8

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)	ORP (mV)
0802	0.80	0.80	0.08	18.74	4.14	23.99	631	1.94	3.84	Clear	-44.0
0806	0.32	1.12	0.08	18.76	4.10	24.10	633	1.38	3.34	"	-40.2
0810	0.32	1.44	0.08	18.76	4.08	24.15	633	1.06	2.72	"	-36.0
0814	0.32	1.76	0.08	18.76	4.07	24.18	636	0.91	1.19	"	-37.4

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0814	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19136-MW-7B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
	1	PE	250 mL	None	None	4.07	CL/NO3/TDS	APP	~300

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-6A	SAMPLE ID: 19135-MW-6A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.6 feet to 22.6 feet	STATIC DEPTH TO WATER (feet): 17.58	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)
= (22.6 feet – 17.58 feet) X 0.16 gallons/foot = 0.76 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1326	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED (gallons): 3.1

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)	ORP (mV)
1358	2.30	2.30	0.07	17.75	4.85	25.10	267	0.21	0.93	clear	-43.8
1402	0.28	2.58	0.07	17.75	4.86	25.08	267	0.19	0.88	"	-51.0
1406	0.28	2.86	0.07	17.74	4.87	25.07	266	0.17	0.81	"	-50.2
1410	0.28	3.14	0.07	17.74	4.88	25.08	264	0.15	0.75	"	-50.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1417
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-6A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~265
↓	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~265
↓	1	PE	250 mL	None	None	4.88	CL/NO3/TDS	APP	~265

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-6B	SAMPLE ID: 19135-MW-6B	DATE: 5/15/16

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.4 feet to 47.4 feet	STATIC DEPTH TO WATER (feet): 17.44	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 1324	PURGING ENDED AT: 1346	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
1334	1.10	1.10	0.11	17.83	4.07	26.08	138	0.67	0.37	Clear	6.0
1338	0.44	1.54	0.11	17.81	4.10	26.12	135	0.31	0.33	"	5.5
1342	0.44	1.98	0.11	17.81	4.12	26.07	136	0.26	0.30	"	4.1
1346	0.44	2.42	0.11	17.80	4.13	25.99	135	0.21	0.25	"	-0.3

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: Nc. 15 Staples / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1346	SAMPLING ENDED AT: 1351
PUMP OR TUBING DEPTH IN WELL (feet): 42.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-6B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 415
	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 415
↓	1	PE	250 mL	None	None	4.13	CL/NO3/TDS	APP	~ 415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-5A	SAMPLE ID: 19135-MW-5A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 17.25	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)
= (22.5 feet – 17.25 feet) X 0.16 gallons/foot = 0.84 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): 20 ~~19.5~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1254	TOTAL VOLUME PURGED (gallons): 3.3

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)	ORP (mV)
1242	2.40	2.40	0.075	17.72	5.02	24.44	191	0.33	5.85	Yellow	-110.9
1246	0.30	2.70	0.075	17.72	5.03	24.61	183	0.20	6.10	"	-120.2
1250	0.30	3.00	0.075	17.72	5.03	24.75	181	0.18	6.41	"	-121.8
1254	0.30	3.30	0.075	17.71	5.03	24.73	182	0.18	6.21	"	-111.4

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: Neil Stanley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1254	SAMPLING ENDED AT: 1301
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-5A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~285
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~285
↓	1	PE	250 mL	None	None	5.03	CL/NO3/TDS	APP	~285

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-5B	SAMPLE ID: 19135-MW-5B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.1 feet to 47.1 feet	STATIC DEPTH TO WATER (feet): 17.28	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 45 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1206	PURGING ENDED AT: 1232	TOTAL VOLUME PURGED (gallons): 1.8

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)	ORP (mV)
1216	1.00	1.00	0.10	17.46	4.02	25.02	1889	3.54	2.03	V.Sl. Yellow	11.7
1220	0.40	1.40	0.10	17.46	4.00	25.06	1895	1.80	1.01	"	7.4
1224	0.40	1.40	0.10	17.46	3.98	25.06	1904	1.45	0.40	"	6.6
1228	0.40	1.40	0.10	17.46	3.98	25.07	1911	1.15	0.35	"	4.8
1232	0.40	1.80	0.10	17.46	3.98	25.10	1913	0.88	0.54	"	4.2

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT: 1237
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-5B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	3.98	CL/NO3/TDS	APP	~380

REMARKS:
Odor: slight odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-4A	SAMPLE ID: 19135-MW-4A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.1 feet to 23.1 feet	STATIC DEPTH TO WATER (feet): 16.90	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)
= (23.1 feet – 16.90 feet) X 0.16 gallons/foot = 0.99 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1052	PURGING ENDED AT: 1136	TOTAL VOLUME PURGED (gallons): 5.4

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1120	3.80	3.80	0.14	17.88	4.64	24.91	1600	0.29	1.45	sl. Yellow	-94.8
1124	0.40	4.20	0.10	17.40	4.63	24.85	1596	0.26	2.03	"	-77.1
1128	0.40	4.60	0.10	17.40	4.66	24.68	1539	0.17	2.17	"	-114.3
1132	0.40	5.00	0.10	17.40	4.65	24.70	1536	0.15	2.14	"	-118.0
1136	0.40	5.40	0.10	17.39	4.65	24.79	1539	0.14	1.91	"	-119.6

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: Nic Stapler / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-4A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.65	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-4B	SAMPLE ID: 19135-MW-4B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.4 feet to 47.4 feet	STATIC DEPTH TO WATER (feet): 16.65	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x 3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 45.5 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1048 ~~1052~~	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 2.0

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)	ORP (mV)
1058	0.90	0.90	0.09	17.03	5.07	25.56	1769	0.48	0.88	Sl. Yella	-74.9
1102	0.36	1.26	0.09	17.03	4.95	25.61	1764	0.21	0.76	"	-68.4
1106	0.36	1.62	0.09	17.03	4.94	25.70	1759	0.18	0.82	"	-66.4
1110	0.36	1.98	0.09	17.03	4.90	25.72	1762	0.15	0.75	"	-58.5

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: Nel Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1116
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-4B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~340
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~340
↓	1	PE	250 mL	None	None	4.90	CL/NO3/TDS	APP	~340

REMARKS: Water slightly foamy
Odor: Slight sulfur odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-3A	SAMPLE ID: 19135-MW-3A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.8 feet to 22.8 feet	STATIC DEPTH TO WATER (feet): 16.04	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)
= (22.8 feet – 16.04 feet) X 0.16 gallons/foot = 1.08 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): 19.5 ~~20.5~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0988	PURGING ENDED AT: 1018	TOTAL VOLUME PURGED (gallons): 3.4

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)	ORP (mV)
1006	0.40	0.40	0.085	17.11	5.18	24.69	1603	0.22	0.57	Clear	-113.6
1010	0.34	0.74	0.085	17.07	5.20	24.69	1591	0.19	0.08	"	-110.6
1014	0.34	3.08	0.085	17.06	5.20	24.70	1585	0.18	0.00	"	-112.4
1018	0.34	3.42	0.085	17.06	5.25	24.66	1578	0.18	0.56	"	-127.4

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1018	SAMPLING ENDED AT: 1024
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-3A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~320
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~320
↓	1	PE	250 mL	None	None	5.25	CL/NO3/TDS	APP	~320

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-3B	SAMPLE ID: 19135-MW-3B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 376 feet to 426 feet	STATIC DEPTH TO WATER (feet): 16.10	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 45.5 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 0934	PURGING ENDED AT: 0956	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0944	~~0.40~~ 1.00	1.00	0.10	16.19	4.06	25.32	1780	1.53	0.52	clear	-5.3
0948	0.40	1.40	0.10	16.19	4.06	25.32	1786	0.65	0.38	"	-10.9
0952	0.40	1.80	0.10	16.19	4.06	25.32	1788	0.35	0.24	"	-13.5
0956	0.40	2.20	0.10	16.19	4.06	25.35	1786	0.25	0.24	"	-13.6

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0956	SAMPLING ENDED AT: 1001
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-3B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.06	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-2B	SAMPLE ID: 19135-MW-2B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38.3 feet to 48.3 feet	STATIC DEPTH TO WATER (feet): 16.73	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47. feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	PURGING INITIATED AT: 0832	PURGING ENDED AT: 0908	TOTAL VOLUME PURGED (gallons): 4.8

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)	ORP (mV)
0856	3.40	3.40	0.14	16.85	3.93	24.46	1458	0.11	0.42	clear	-53.2
0900	0.44	3.84	0.11	16.83	3.92	24.46	1456	0.11	0.61	"	-54.8
0904	0.44	4.38	0.11	16.83	3.92	24.47	1448	0.12	0.40	"	-55.0
0908	0.44	4.82	0.11	16.83	3.92	24.46	1447	0.12	0.19	"	-55.7

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0908	SAMPLING ENDED AT: 0913
PUMP OR TUBING DEPTH IN WELL (feet): 43.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-2B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	3.92	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-2A	SAMPLE ID: 19135-MW-2B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 17.6 feet to 22.6 feet	STATIC DEPTH TO WATER (feet): 16.78	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)
= (22.6 feet – 16.78 feet) X 0.16 gallons/foot = 0.93 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0838	PURGING ENDED AT: 0852	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
0840	1.20	1.20	0.10	17.20	4.30	23.71	943	0.32	0.75	clear	-14.9
0844	0.40	1.60	0.10	17.21	4.30	23.70	938	0.25	0.63	"	-18.7
0848	0.40	2.00	0.10	17.20	4.31	23.74	935	0.18	0.75	"	-24.2
0852	0.40	2.40	0.10	17.18	4.31	23.74	939	0.15	0.62	"	-24.1

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0852	SAMPLING ENDED AT: 0857
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-2A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.31	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-1B	SAMPLE ID: 19135-MW-1A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.9 feet to 47.9 feet	STATIC DEPTH TO WATER (feet): 16.78	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0802	TOTAL VOLUME PURGED (gallons): 6.4

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)	ORP (mV)
0750	4.80	4.80	0.16	16.87	4.00	24.98	2066	0.39	0.44	clear	-30.6
0754	0.64	5.44	0.16	16.87	4.00	24.98	2054	0.37	0.36	"	-30.5
0758	0.48	5.92	0.12	16.85	4.00	24.99	2058	0.35	0.58	"	-30.9
0802	0.48	6.40	0.12	16.85	4.00	25.00	2047	0.33	0.16	"	-30.9

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: Neil Stupay / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0802	SAMPLING ENDED AT: 0806

PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-1B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~455
	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~455
	1	PE	250 mL	None	None	4.00	CL/NO3/TDS	APP	~455

REMARKS:
Odor: Rotten odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-1A	SAMPLE ID: 19135-MW-1A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 16.91	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 feet – 16.91 feet) X 0.16 gallons/foot = 0.97 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	PURGING INITIATED AT: 0714	PURGING ENDED AT: 0740	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0728	1.20	1.20	0.085	~~4.63~~ 17.67	4.63	24.36	1728	1.10	4.24	Sl. Yellow	-43.4
0732	0.34	1.54	0.085	17.68	4.60	24.38	1735	0.57	3.35	"	-56.3
0736	0.34	1.88	0.085	17.66	4.59	24.39	1735	0.31	2.66	"	-66.0
0740	0.34	2.22	0.085	17.66	4.58	24.39	1731	0.27	2.03	"	-77.9

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0740	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 20.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-1A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~320
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~320
	1	PE	250 mL	None	None	4.58	CL/NO3/TDS	APP	~320

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: CW-~~3A~~ 1A NS	SAMPLE ID: 19134-CW-1A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 5.70	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1216	PURGING ENDED AT: 1254	TOTAL VOLUME PURGED (gallons): 4.6

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)	ORP (mV)
1246	3.60	3.60	0.12	5.89	4.96	22.07	572	0.11	1.81	~~Yellow~~ clear	-34
1250	0.48	4.08	0.12	5.89	4.96	22.07	571	0.11	1.78	Clear	-37
1254	0.48	4.56	0.12	5.89	4.96	22.08	585	0.10	2.37	"	-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)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Neil Stapley / Geosnake	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1254	SAMPLING ENDED AT: 1258
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-CW-1A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~455
	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~455
↓	1	PE	250 mL	None	None	5.89	CL/NO3/TDS	APP	~455

REMARKS:
Odor: Slight odor EQ-1 collected @ 13:30

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-30B	SAMPLE ID: 19134 - MW-30B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.79	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1050	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)	ORP (mV)
1120	3.30	3.30	0.11	23.11	4.75	24.77	67	0.14	4.74	clear	32.8
1124	0.44	3.74	0.11	23.11	4.76	24.90	66	0.12	4.37	"	29.6
1128	0.44	4.18	0.11	23.11	4.77	24.98	67	0.10	4.19	"	24.7
1132	0.44	4.62	0.11	23.11	4.76	24.88	66	0.09	4.43	"	24.4

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1132	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-30B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
✓	1	PE	250 mL	None	None	4.76	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-30A	SAMPLE ID: 19134-MW-30A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.83	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)
= (feet – feet) X gallons/foot = 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): 24	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24	PURGING INITIATED AT: 1044	PURGING ENDED AT: 1111	TOTAL VOLUME PURGED (gallons): 2.7

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1059	1.50	1.50	0.10	22.93	4.34	24.67	243	0.51	1.31	clear	84.8
1103	2.40	1.90	0.10	22.93	4.43	24.63	231	0.33	2.37	"	81.3
1107	0.40	2.30	0.10	22.93	4.45	24.63	227	0.26	1.54	"	75.7
1111	0.40	2.70	0.10	22.93	4.51	24.59	220	0.19	1.02	"	72.2

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: Nal / Stoday / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1111	SAMPLING ENDED AT: 1116
PUMP OR TUBING DEPTH IN WELL (feet): 24	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-30A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.51	CL/NO3/TDS	APP	~380

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-33B	SAMPLE ID: 19134-MW-33B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 33.3 feet to 43.3 feet	STATIC DEPTH TO WATER (feet): 30.89	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 40.5 feet) + 0.1 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 0910	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 6.8

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)	ORP (mV)
1000	5.50	5.50	0.94	30.11	4.08	26.12	2541	0.19	0.53	Yellow	104.9
1004	0.44	5.94	0.11	30.94	4.08	26.10	2534	0.19	0.70	"	104.5
1008	0.44	6.38	0.11	30.94	4.07	26.09	2528	0.17	0.70	"	101.7
1012	0.44	6.82	0.11	30.94	4.07	26.08	2540	0.17	0.34	"	99.9

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1012	SAMPLING ENDED AT: 1016
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-33B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.07	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-23A	SAMPLE ID: 19134 - MW-23A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 17.3 feet to 27.3 feet	STATIC DEPTH TO WATER (feet): 20.92	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)
= (27.3 feet – 20.92 feet) X 0.16 gallons/foot = 1.02 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): ~~27~~ 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0936	TOTAL VOLUME PURGED (gallons): 2.5

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)	ORP (mV)
0920	1.20	1.20	0.08	21.55	5.39	26.05	1331	1.38	1.20	Yellow	25.7
0924	0.32	1.52	0.08	21.56	5.38	26.04	1597	0.75	1.34	"	21.2
0928	0.32	1.84	0.08	21.57	5.38	26.04	1846	0.46	1.34	"	7.2
0932	0.32	2.16	0.08	21.58	5.38	26.01	1833	0.41	1.27	"	-5.6
0936	0.32	2.48	0.08	21.58	5.37	26.00	1833	0.35	1.33	"	-13.2

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: Neil Stapp / Geosyntec	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-23A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
↓	1	PE	250 mL	None	None	5.37	CL/NO3/TDS	APP	~300

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-16BR	SAMPLE ID: 19135-MW-16BR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 36.5 feet to 46.5 feet	STATIC DEPTH TO WATER (feet): 17.56	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1347	PURGING ENDED AT: 1431	TOTAL VOLUME PURGED (gallons): 1.72

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)	ORP (mV)
1407	0.80	0.80	0.04	18.01	4.97	26.28	155	3.03	1.94	Clear	23.7
1409	0.08	0.88	0.04	18.01	4.94	26.33	137	2.69	1.87	↓	40.4
1411	0.08	0.96	0.04	18.01	4.94	26.32	132	2.64	1.32	↓	43.4
1413	0.08	1.04	0.04	18.01	4.93	26.31	129	2.60	1.45	↓	53.9
1415	0.08	1.12	0.04	18.01	4.93	26.30	128	2.59	1.91	↓	54.5

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: Daniel Montpel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1418	SAMPLING ENDED AT: 1431
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-16BR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-16AR	SAMPLE ID: 19135-MW-16AR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.5 feet to 23.5 feet	STATIC DEPTH TO WATER (feet): 17.98	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)
= (23.5 feet – 17.98 feet) X 0.16 gallons/foot = 0.88 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1336	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
1346	0.40	0.40	0.04	18.60	5.39	26.56	1727	0.03	4.73	Clear	-51.4
1348	0.08	0.48	0.04	18.61	5.39	26.57	1728	0.03	5.29	↓	-52.3
1350	0.08	0.56	0.04	18.61	5.39	26.56	1731	0.02	5.38	↓	-59.1
1352	0.08	0.64	0.04	18.61	5.38	26.52	1734	0.03	4.71	↓	-66.2
1354	0.08	0.72	0.04	18.61	5.38	26.51	1735	0.02	3.92	↓	-67.2
1356	0.08	0.80	0.04	18.61	5.38	26.48	1736	0.02	4.34	↓	-69.0
1358	0.08	0.88	0.04	18.61	5.38	26.47	1734	0.03	4.47	↓	-70.3
1400	0.08	0.96	0.04	18.61	5.38	26.47	1735	0.02	4.11	↓	-75.1

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: Daniel Montel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1403	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-16AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-17BR	SAMPLE ID: 19135-MW-17BR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.95	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1252	PURGING ENDED AT: 1326	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
1302	0.40	0.40	0.04	18.89	4.84	26.48	130	0.26	2.15	Clear	166.7
1307	0.20	0.60	0.04	18.90	4.85	26.55	118	0.27	2.17	↓	113.6
1309	0.08	0.68	0.04	18.90	4.86	26.54	113	0.19	2.31		68.0
1311	0.08	0.76	0.04	18.91	4.86	26.57	112	0.14	1.78		59.8
1313	0.08	0.84	0.04	18.91	4.85	26.59	113	0.12	1.92		54.6
1315	0.08	0.92	0.04	18.90	4.85	26.60	112	0.11	1.87		53.4

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: Daniel Manfel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1318	SAMPLING ENDED AT: 1326
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-17BR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**		SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-17AR	SAMPLE ID: 19135-MW-17AR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 18.07	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 feet – 18.07 feet) X 0.16 gallons/foot = 0.63 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1207	PURGING ENDED AT: 1242	TOTAL VOLUME PURGED (gallons): 1.4

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)	ORP (mV)
1217	0.40	0.40	0.04	18.49	4.18	26.89	952	0.24	11.5	Clear	188.5
1222	0.20	0.60	0.04	18.49	4.18	26.79	968	0.14	8.74	↓	203.6
1225	0.12	0.72	0.04	18.49	4.19	26.80	995	0.11	7.31	↓	214.0
1228	0.12	0.84	0.04	18.49	4.19	26.79	999	0.10	5.82	↓	216.8
1231	0.12	0.96	0.04	18.49	4.19	26.78	1008	0.11	5.48	↓	218.5
1234	0.12	1.08	0.04	18.49	4.19	26.75	1010	0.11	3.11	↓	225.4

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1236	SAMPLING ENDED AT: 1242
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-17AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-29B	SAMPLE ID: 19135-MW-29B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.81	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 → 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 2.32

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)	ORP (mV)
1042	0.40	0.40	0.04	18.31	4.52	25.63	200	0.53	0.46	Clear	9.3
1047	0.20	0.60	0.04	18.33	4.52	25.62	201	0.19	1.76	↓	-4.1
1052	0.20	0.80	0.04	18.33	4.52	25.65	201	0.15	1.23	↓	-8.2
1057	0.20	1.00	0.04	18.33	4.52	25.61	201	0.14	0.96	↓	-12.3
1102	0.20	1.20	0.04	18.33	4.52	25.60	201	0.12	0.87	↓	-22.5

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1108	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-29B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-29A	SAMPLE ID: 19135-MW-29A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 17.68	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 feet – 17.68 feet) X 0.16 gallons/foot = 0.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1011	PURGING ENDED AT: 1052	TOTAL VOLUME PURGED (gallons): 1.64

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)	ORP (mV)
1021	0.40	0.40	0.04	18.13	4.19	24.97	247	0.50	25.4	light brown	145.7
1026	0.20	0.60	0.04	18.13	4.19	24.91	247	0.53	13.2	↓	150.4
1031	0.20	0.80	0.04	18.13	4.19	24.86	247	0.65	10.4		162.3
1036	0.20	1.00	0.04	18.13	4.20	24.87	247	0.38	8.44	Clear	180.6
1038	0.08	1.08	0.04	18.13	4.20	24.89	247	0.41	6.17	Clear	182.3

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: Samuel Mansfield/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-29A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-28B	SAMPLE ID: 19135 -MW-28B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 18.08	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0925	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 1.40

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)	ORP (mV)
0935	0.40	0.40	0.04	18.56	4.64	24.93	175	0.76	0.74	Clear	-12.7
0938	0.12	0.52	0.04	18.56	4.63	24.91	175	0.44	0.71	↓	-20.5
0941	0.12	0.64	0.04	18.56	4.63	24.92	173	0.34	1.12	↓	-26.2
0944	0.12	0.76	0.04	18.56	4.62	24.92	172	0.31	0.69	↓	-25.3
0947	0.12	0.88	0.04	18.56	4.62	24.93	172	0.36	0.72	↓	-23.2

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: Daniel Kronzel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0959
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-28B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-28A	SAMPLE ID: 19135-MW-28A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 14 feet to 24 feet	STATIC DEPTH TO WATER (feet): 18.01	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)
= (24 feet – 18.01 feet) X 0.16 gallons/foot = 0.96 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 0843	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
0853	0.40	0.40	0.04	19.89	4.81	24.67	592	0.22	2.69	Clear	-11.2
0858	0.20	0.60	0.04	19.89	4.83	24.68	594	0.24	3.73	↓	-27.9
0903	0.20	0.80	0.04	19.89	4.84	24.75	579	0.10	3.21	↓	-43.6
0908	0.20	1.00	0.04	19.89	4.85	24.78	579	0.06	3.40	↓	-55.7
0913	0.20	1.20	0.04	19.89	4.86	24.78	575	0.06	3.15	↓	-63.5

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0917
PUMP OR TUBING DEPTH IN WELL (feet): 22	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-28A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-27B	SAMPLE ID: 19135-MW-27B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 18.11	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons → 0.49

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0803	PURGING ENDED AT: 0840	TOTAL VOLUME PURGED (gallons): 1.48

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0813	0.40	0.40	0.04	18.37	4.93	24.26	158	0.66	1.06	Clear	10.4
0817	0.16	0.56	0.04	18.37	4.94	24.31	154	0.36	0.91	↓	1.3
0820	0.12	0.68	0.04	18.38	4.93	24.37	153	0.24	0.85	↓	-12.3
0823	0.12	0.80	0.04	18.38	4.94	24.36	153	0.23	0.72	↓	-18.7
0826	0.12	0.92	0.04	18.38	4.93	24.3	153	0.22	0.68	↓	-20.1

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: Daniel Mondel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0828	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-27B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-27A	SAMPLE ID: 19135-MW-27A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet) 18.07	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)
= (23 feet – 18.07 feet) X 0.16 gallons/foot = 0.78 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0714	PURGING ENDED AT: 0751	TOTAL VOLUME PURGED (gallons): 1.48

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0724	0.40	0.40	0.04	18.58	4.69	24.06	180	0.27	3.45	Clear	27.7
0727	0.12	0.52	0.04	18.59	4.71	24.09	176	0.24	3.28	↓	14.6
0730	0.12	0.64	0.04	18.59	4.72	24.08	175	0.22	2.98	↓	6.8
0733	0.12	0.76	0.04	18.59	4.72	24.08	176	0.20	2.76	↓	2.7
0736	0.12	0.88	0.04	18.59	4.72	24.08	177	0.20	2.74	↓	-1.2

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: Daniel Martel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0739	SAMPLING ENDED AT: 0751
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-27A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	↓
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-31A	SAMPLE ID: 19134-MW-31A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 17.19	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)
= (25 feet – 17.19 feet) X 0.16 gallons/foot = 1.25 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1028	PURGING ENDED AT: 1148	TOTAL VOLUME PURGED (gallons): 4.8

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)	ORP (mV)
1038	0.60	0.60	0.06	17.29	5.28	26.00	1026	0.40	356	clear yellow	-81.3
1058	1.20	1.80	0.06	17.29	4.99	26.26	1123	0.22	164	clear yellow	-131.5
1108	0.60	2.40	0.06	17.30	5.01	25.91	1117	0.11	49.3	Clear	-60.0
1118	0.60	3.00	0.06	17.30	5.00	25.95	1124	0.09	16.7		-62.8
1128	0.60	3.60	0.06	17.30	4.97	25.92	1123	0.09	8.63		-68.0
1130	0.12	3.72	0.06	17.30	4.98	25.90	1121	0.08			-67.3
1132	0.12	3.84	0.06	17.30	4.95	25.89	1120	0.08			-68.8
1134	0.12	3.96	0.06	17.30	4.95	25.90	1120	0.07			-69.8

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: Daniel Ranfel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1148
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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 (including wet ice)			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			
19134-MW-31A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-31B	SAMPLE ID: 19134-MW-31B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet):	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.1 gallons = 0.16 → 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 1116	PURGING ENDED AT: 1214	TOTAL VOLUME PURGED (gallons): 3.48

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)	ORP (mV)
1126	0.60	0.60	0.06	17	4.64	25.49	1200	0.41	1.71	Clear	-48.0
1156	1.80	2.40	0.06		4.61	25.48	1202	0.26	2.35	Clear	-62.8
1158	0.12	2.52	0.06		4.60	25.47	1202	0.28	1.88	↓	-70.1
1200	0.12	2.64	0.06		4.59	25.46	1202	0.24	1.54	↓	-81.3
1202	0.12	2.76	0.06		4.59	25.47	1202	0.22	1.32	↓	-79.6

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: Daniel Mantel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1204	SAMPLING ENDED AT: 1214
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-31B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**

WELL NO: MW-25A	SAMPLE ID: 19134-MW-25A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 10.04	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 24 feet) + 0.1 gallons = 0.13 → 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1251	PURGING ENDED AT: 1322	TOTAL VOLUME PURGED (gallons): 1.86

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1301	0.60	0.60	0.06	10.07	4.81	23.67	1209	0.88	13.6	Clear	25.5
1305	0.24	0.84	0.06	10.07	4.74	23.77	1170	0.16	8.76	Clear	-7.3
1307	0.12	0.96	0.06	10.07	4.72	23.93	1130	0.15	4.04	Clear	-37.0
1309	0.12	1.08	0.06	10.07	4.72	23.94	1128	0.13	3.78	Clear	-39.1
1311	0.12	1.20	0.06	10.07	4.72	23.88	1121	0.11	3.54	Clear	-47.5
1312	0.06	1.26	0.06	10.07	4.72	23.87	1123	0.11	3.28	Clear	-47.1

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: Daniel Martel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1313	SAMPLING ENDED AT: 1322
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-25A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	250
↓	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	250
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	250

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-2SB	SAMPLE ID: 19134-MW-2SB	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 31 feet to 41 feet	STATIC DEPTH TO WATER (feet): 9.86	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 → 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1401	TOTAL VOLUME PURGED (gallons): 1.86

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1340	0.60	0.60	0.06	9.77	4.78	23.90	146	0.19	2.97	Clear	-16.9
1345	0.30	0.90	0.06	9.78	4.78	23.88	140	0.13	1.92	Clear	-25.1
1347	0.12	01.02	0.06	9.78	4.78	23.88	136	0.12	1.78	Clear	-30.7
1349	0.12	1.24	0.06	9.78	4.78	23.88	134	0.11	1.34	Clear	-32.1

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: Daniel Mantel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1401
PUMP OR TUBING DEPTH IN WELL (feet): 36	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19134-MW-2SB	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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:	SITE LOCATION:	
WELL NO: MW-7B	SAMPLE ID: 19325-MW-7B	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 47.5 feet	STATIC DEPTH TO WATER (feet): 18.73	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x 3 = 0.50
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1405	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)	ORP (mV)
1412	0.56	0.56	0.08	19.05	4.02	25.31	573	1.49	3.43	Clear	3.0
1414	0.16	0.72	↓	19.05	4.02	25.37	576	1.55	2.24	↓	0.2
1416	0.16	0.88	↓	19.05	4.03	25.37	577	1.57	1.80	↓	-1.5
1418	0.16	1.04	↓	19.05	4.03	25.35	578	1.58	1.54	↓	-2.3

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: Daniel Montel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1432
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-7B	SAMPLE ID: 19325-MW-7B	DATE: 11/21/19	

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			
19325-MW-7B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-7A	SAMPLE ID: 19325-MW-7A	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13.3 feet to 23.3 feet	STATIC DEPTH TO WATER (feet): 18.93	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)
= (23.3 feet – 18.93 feet) X 0.16 gallons/foot = 0.70 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1344	TOTAL VOLUME PURGED (gallons): 0.98

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)	ORP (mV)
1338	0.56	0.56	0.07	19.01	5.00	25.50	337	1.76	0.41	Clear	-12.6
1340	0.14	0.70	↓	19.01	5.00	25.56	337	1.94	0.63	↓	-29.3
1342	0.14	0.84		19.02	5.00	25.63	336	1.99	0.46		-34.5
1344	0.14	0.98		19.02	5.00	25.67	336	2.00	0.39		-39.1

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: Daniel Montel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1348	SAMPLING ENDED AT: 1356
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-7A	SAMPLE ID: 19325-MW-7A	DATE: 11/21/19	

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			
19325-MW-7A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-8B	SAMPLE ID: 19325-MW-8B	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 39.6 feet to 49.6 feet	STATIC DEPTH TO WATER (feet): 18.01	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.1 gallons = 0.17 gallons x 3 = .051

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1247	PURGING ENDED AT: 1301	TOTAL VOLUME PURGED (gallons): 1.12

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)	ORP (mV)
1255	0.64	0.64	0.08	18.67	3.96	24.72	1100	0.64	0.60	Clear	73.5
1257	0.16	0.80	↓	18.68	4.01	24.63	1135	0.53	0.58	↓	55.3
1259	0.16	0.96		18.66	4.02	24.60	1139	0.57	0.97		47.7
1301	0.16	1.12		18.66	4.03	24.60	1142	0.58	0.71		41.7

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1304	SAMPLING ENDED AT: 1318
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-8B	SAMPLE ID: 19325-MW-8B	DATE: 11/21/19	

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			
19325-MW-8B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-8A	SAMPLE ID: 19325-MW-8A	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 18.16	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)
= (22.5 feet – 18.16 feet) X 0.16 gallons/foot = 0.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 25 feet) + 0.1 gallons = 0.13 gallons x3=0.40

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1215	PURGING ENDED AT: 1228	TOTAL VOLUME PURGED (gallons): 0.91

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)	ORP (mV)
1222	0.49	0.49	0.07	18.80	4.18	25.12	1241	1.07	2.17	Clear	2.6
1224	0.14	0.63	↓	18.83	4.18	25.25	1243	1.11	2.08	↓	0.1
1226	0.14	0.77		18.82	4.17	25.30	1245	1.18	1.63		-2.7
1228	0.14	0.91		18.83	4.17	25.34	1246	1.20	1.31		-4.0

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1239
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-8A	SAMPLE ID: 19325-MW-8A	DATE: 11/21/19	

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			
19325-MW-8A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-10B	SAMPLE ID: 19325 - MW-10B	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 38.3 feet to 48.3 feet	STATIC DEPTH TO WATER (feet): 19.73	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons x 3 = 0.50

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1110	PURGING ENDED AT: 1122	TOTAL VOLUME PURGED (gallons): 0.84

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)	ORP (mV)
1116	0.42	0.42	0.07	19.80	4.13	26.35	885	0.90	0.76	Clear	52.0
1118	0.14	0.56	↓	19.80	4.12	26.35	979	2.07	0.91	↓	13.7
1120	0.14	0.70		19.80	4.09	26.41	978	2.09	1.32		8.7
1122	0.14	0.84		19.80	4.10	26.38	980	2.10	0.89		5.3

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1126	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-10B	SAMPLE ID: 19325-MW-10B	DATE: 11/21/19	

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			
19325-MW-10B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	↓
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-10A	SAMPLE ID: 19325-MW-10A	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.1 feet to 22.1 feet	STATIC DEPTH TO WATER (feet): 19.71	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 – 19.71 feet) X 0.16 gallons/foot = 0.38 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1039	PURGING ENDED AT: 1052	TOTAL VOLUME PURGED (gallons): 0.91

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1046	0.49	0.49	0.07	20.02	4.74	27.21	853	1.35	2.93	Clear	-36.4
1048	0.14	0.63	↓	20.04	4.75	26.87	849	1.60	2.71	↓	-50.3
1050	0.14	0.77		20.05	4.75	26.80	848	1.59	2.05		-56.1
1052	0.14	0.91		20.05	4.76	26.78	847	1.64	1.83		-56.2

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1054	SAMPLING ENDED AT: 1106
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-10A	SAMPLE ID: 19325-MW-10A	DATE: 11/21/19	

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			
19325-MW-10A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION: (31B)	
WELL NO: MW-31B	SAMPLE ID: ~~19325~~ 19325-MW-31B		DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 17.88	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons x3 = 0.49

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1002	TOTAL VOLUME PURGED (gallons): 0.84

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0956	0.42	0.42	0.07	18.25	4.49	25.99	1338	1.23	0.83	Clear	2.9
0958	0.14	0.56	↓	18.27	4.48	25.79	1342	1.27	1.39	↓	-3.0
1000	0.14	0.70	↓	18.26	4.48	25.83	1341	1.24	1.12	↓	-4.9
1002	0.14	0.84	↓	18.26	4.47	25.87	1342	1.25	0.89	↓	-5.3

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: Daniel Monfil / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1006	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-31B	SAMPLE ID: 19325-MW-31B	DATE: 11/21/19	

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			
19325-MW-31B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	↓
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-31A	SAMPLE ID: 19325-MW-31A	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 17.94	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)
= (25 feet – 17.94 feet) X 0.16 gallons/foot = 1.12 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 27 feet) + 0.1 gallons = 0.14 gallons x3 = 0.42

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 0828	PURGING ENDED AT: 0926	TOTAL VOLUME PURGED (gallons): ~~1.08~~ 1.12

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)	ORP (mV)
0900	0.64	0.64	0.02	18.09	4.77	25.33	1068	1.02	540	Yellow	2.7
0915	0.30	0.94	↓	18.09	4.75	25.30	1063	0.95	392	↓	-18.3
0920	0.10	1.04	↓	18.09	4.73	25.31	1055	1.10	338	↓	-27.4
0922	0.04	1.06	↓	18.09	4.73	25.30	1055	1.12	221	↓	-31.0
0924	0.04	1.08	↓	18.09	4.73	25.30	1054	1.13	180	↓	-35.1
0926	0.04	1.12	↓	18.09	4.73	25.30	1054	1.14	45	↓	-36.8

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: Daniel Montel/Geoyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0926	SAMPLING ENDED AT: 0939
PUMP OR TUBING DEPTH IN WELL (feet): 22	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: (Y) N DM Filtration Equipment Type: In-line filter	FILTER SIZE: 1 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			
				see	attached				

REMARKS: High turbidity issues. Container collected for metals (App I Metals + Fe, Hg, Na) unfiltered.

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-31A	SAMPLE ID: 19325 - MW-31A	DATE: 11/21/19	

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			
19325-MW-31A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	75
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-9B	SAMPLE ID: 19324 - MW-9B	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 39.1 feet to 49.1 feet	STATIC DEPTH TO WATER (feet): 18.22	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 gallons x3 = 0.51

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1447	PURGING ENDED AT: 1501	TOTAL VOLUME PURGED (gallons): 1.12

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)	ORP (mV)
1455	0.64	0.64	0.08	18.62	4.54	25.98	435	0.81	0.48	Clear	63.2
1457	0.16	0.80	↓	18.65	4.48	25.99	462	0.79	0.61	↓	72.7
1459	0.16	0.96	↓	18.66	4.45	26.02	471	0.89	1.83	↓	76.4
1501	0.16	1.12	↓	18.66	4.40	26.04	478	0.91	1.14	↓	77.6

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: Daniel Montel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1504	SAMPLING ENDED AT: 1519
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-9B	SAMPLE ID: 19324-MW-9B	DATE: 11/20/19	

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			
19324-MW-9B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-9A	SAMPLE ID: 19324-MW-9A	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.4 feet to 22.4 feet	STATIC DEPTH TO WATER (feet): 18.22	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)
= (22.4 feet – 18.22 feet) X 0.16 gallons/foot = 0.67 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons ×3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1408	TOTAL VOLUME PURGED (gallons): 1.04

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)	ORP (mV)
1402	0.56	0.56	0.08	18.80	5.26	27.10	222	1.84	10.5	Yellowish	-27.3
1404	0.16	0.72	↓	18.81	5.26	27.15	221	1.78	9.98	↓	-37.2
1406	0.16	0.88	↓	18.80	5.26	27.10	220	1.75	9.71	↓	-44.8
1408	0.16	1.04	↓	18.81	5.26	27.12	220	1.73	9.01	↓	-47.3

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: Daniel Montel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1440
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				see attached					

REMARKS: Collected a duplicate sample (Dup-1 @ 0001)

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-9A	SAMPLE ID: 19324-MW-9A	DATE: 11/20/19	

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			
19324-MW-9A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-11B	SAMPLE ID: 19324-MW-11B	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.9 feet to 47.9 feet	STATIC DEPTH TO WATER (feet): 17.21	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1305	PURGING ENDED AT: 1318	TOTAL VOLUME PURGED (gallons): 1.04

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)	ORP (mV)
1312	0.56	0.56	0.08	17.32	4.89	28.37	113	0.65	0.68	Clear	6.5
1314	0.16	0.72	↓	17.32	4.89	28.49	114	0.60	0.74	↓	4.8
1316	0.16	0.88		17.32	4.89	28.47	115	0.55	1.01		3.7
1318	0.16	1.04		17.32	4.88	28.53	115	0.53	0.91		2.1

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: Daniel Montfel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1335
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-11B	SAMPLE ID: 19324-MW-11B	DATE: 11/20/19	

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			
19324-MW-11B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-11A	SAMPLE ID: 19324-MW-11A	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 12.8 feet to 22.8 feet	STATIC DEPTH TO WATER (feet): 16.83	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)
= (22.8 feet – 16.83 feet) X 0.16 gallons/foot = 0.95 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 25 feet) + 0.1 gallons = 0.13 gallons x3 = 0.40

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1144	PURGING ENDED AT: 1156	TOTAL VOLUME PURGED (gallons): 0.96

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)	ORP (mV)
1150	0.48	0.48	0.08	18.91	5.01	28.62	731	2.02	20.5	Clear	72.5
1152	0.16	0.64	↓	18.93	5.09	28.48	732	1.63	14.7	↓	57.1
1154	0.16	0.80		18.93	5.10	28.56	728	1.68	9.31		56.4
1156	0.16	0.96		18.94	5.10	28.58	726	1.71	6.86		69.1
*											

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1158	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO:	MW-11A	SAMPLE ID: 19324-MW-11A	DATE: 11/20/19

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			
19324-MW-11A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	300
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-12B	SAMPLE ID: 19324-MW-12B	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 18.56	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 gallons x3=0.51

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1056	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 0.98

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)	ORP (mV)
1104	0.56	0.56	0.07	18.63	4.78	26.94	76	0.90	1.34	Clear	66.0
1106	0.14	0.70	↓	18.63	4.78	26.99	75	0.96	1.27	↓	64.3
1108	0.14	0.84	↓	18.63	4.77	26.91	75	0.97	1.39	↓	63.3
1110	0.14	0.98	↓	18.64	4.77	26.92	74	0.97	1.15	↓	63.0

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: Daniel Kuntzel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1114	SAMPLING ENDED AT: 1122
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St Cloud, FL 34733
WELL NO: MW-12B	SAMPLE ID: 19324-MW-12B	DATE: 11/20/19	

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			
19324-MW-12B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-17AR	SAMPLE ID: 19323-MW-17AR	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 14 feet to 24 feet	STATIC DEPTH TO WATER (feet): 18.16	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)
= (24 feet – 18.16 feet) X 0.16 gallons/foot = 0.93 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 25 feet) + 0.1 gallons = 0.13 gallons x3 = 0.4

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1306	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 0.98

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)	ORP (mV)
1312	0.42	0.42	0.07	18.73	4.44	28.47	879	2.12	2.76	Clear	151.9
1314	0.14	0.56	↓	18.73	4.44	28.52	901	2.27	2.49	↓	160.4
1316	0.14	0.70	↓	18.72	4.45	28.53	906	2.29	2.28	↓	161.3
1318	0.14	0.84	↓	18.72	4.44	28.55	908	2.37	2.13	↓	162.8
1320	0.14	0.98	↓	18.72	4.44	28.56	907	2.38	2.07	↓	163.4

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1322	SAMPLING ENDED AT: 1334
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-17AR	SAMPLE ID: 19323-MW-17AR	DATE: 11/19/19	

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			
19323-MW-17AR	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: Eq. Blank	SAMPLE ID: 19325-EQ-2	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (feet – feet) X gallons/foot = 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):	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)	ORP (mV)
					Equipment blank						

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: Daniel Montel/Geoyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1502	SAMPLING ENDED AT: 1507
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: Eq. Blank	SAMPLE ID: 19325 - EQ-2	DATE: 11/21/19	

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			
~~19325 MW~~	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	
19325-EQ-2	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-12A	SAMPLE ID: 19324-MW-12A	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 18.52	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 feet – 18.52 feet) X 0.16 gallons/foot = 0.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1018	PURGING ENDED AT: 1031	TOTAL VOLUME PURGED (gallons): 0.91

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)	ORP (mV)
1024	0.42	0.42	0.07	19.04	3.94	27.43	1713	2.32	1.37	Clear	54.5
1026	0.14	0.56	↓	19.04	3.94	27.44	1742	2.21	1.42	↓	53.6
1028	0.14	0.70	↓	19.04	3.94	27.49	1778	1.78	1.14	↓	49.8
1030	0.14	0.84	↓	19.04	3.94	27.50	1782	1.75	1.10	↓	48.2
1031	0.07	0.91	↓	19.04	3.94	27.52	1784	1.72	1.18	↓	47.7

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: Daniel Kimpel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1032	SAMPLING ENDED AT: 1045
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-12A	SAMPLE ID: 19324-MW-12A	DATE: 11/20/19	

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			
19324-MW-12A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-13B	SAMPLE ID: 19324-MW-13B	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.2 feet to 47.2 feet	STATIC DEPTH TO WATER (feet): 18.31	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons x 3 = 0.50

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0918	PURGING ENDED AT: 0932	TOTAL VOLUME PURGED (gallons): 0.98

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)	ORP (mV)
0926	0.56	0.56	0.07	18.65	4.70	27.23	103	1.00	0.33	Clear	24.9
0928	0.14	0.70	↓	18.65	4.69	27.15	102	1.05	0.48	↓	28.8
0930	0.14	0.84		18.66	4.69	27.20	103	1.01	0.37		29.8
0932	0.14	0.98		18.66	4.69	27.17	101	0.99	0.22		31.5

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0944
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-13B	SAMPLE ID: 19324-MW-13B	DATE: 11/20/19	

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			
19324-MW-13B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-13A	SAMPLE ID: 19324-MW-13A	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 18.58	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)
= (22.5 feet – 18.58 feet) X 0.16 gallons/foot = 0.63 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0840	PURGING ENDED AT: 0856	TOTAL VOLUME PURGED (gallons): 1.12

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)	ORP (mV)
0846	0.42	0.42	0.07	19.01	4.69	27.74	3524	0.85	23.6	Clear	46.7
0850	0.28	0.70	↓	19.00	4.69	27.68	3538	1.11	11.0	↓	36.0
0852	0.14	0.84		19.02	4.69	27.74	3541	1.13	8.11		26.3
0854	0.14	0.98		19.03	4.70	27.68	3534	1.15	6.32		21.6
0856	0.14	1.12	↓	19.03	4.70	27.69	3540	1.17	6.77	↓	20.2

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: Daniel Manfiel / Geoprobe	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0858	SAMPLING ENDED AT: 0908
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-13A	SAMPLE ID: 19324-MW-13A	DATE: 11/20/19	

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			
19324-MW-13A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-28A	SAMPLE ID: 19323-MW-28A	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 14 feet to 24 feet	STATIC DEPTH TO WATER (feet): 17.95	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)
= (24 feet – 17.95 feet) X 0.16 gallons/foot = 0.97 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.13 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1028	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)	ORP (mV)
1022	0.72	0.72	0.06	18.96	4.63	27.07	1674	2.22	1.20	Clear	-28.7
1024	0.12	0.84	↓	19.18	4.63	27.10	1555	2.08	1.15	↓	-28.6
1026	0.12	0.96		19.20	4.66	27.02	1542	1.77	1.13		-31.9
1028	0.12	1.08		19.19	4.67	27.11	1538	1.56	1.18		-43.0

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: Daniel Martinez / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1048
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				See	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-28A	SAMPLE ID: 19323-MW-28A	DATE: 11/19/19	

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			
19323-MW-28A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	225
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	↓
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-29A	SAMPLE ID: 19323-MW-29A	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 17.73	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 feet – 17.73 feet) X 0.16 gallons/foot = 0.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3 = 0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1158	TOTAL VOLUME PURGED (gallons): 0.91

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)	ORP (mV)
1152	0.49	0.49	0.07	18.14	4.38	27.23	308	0.73	9.72	Clear	96.2
1154	0.14	0.63	↓	18.19	4.38	27.24	308	0.54	5.27	↓	101.1
1156	0.14	0.77	↓	18.22	4.39	27.27	309	0.51	3.14	↓	110.6
1158	0.14	0.91	↓	18.23	4.39	27.22	309	0.52	2.81	↓	117.2

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1200	SAMPLING ENDED AT: 1212
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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			
				See	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-29A	SAMPLE ID: 19323-MW-29A	DATE: 11/19/19	

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			
19323-MW-29A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	↓
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:	
WELL NO: MW-27A	SAMPLE ID: 19323-MW-27A		DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 18.09	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 feet – 18.09 feet) X 0.16 gallons/foot = 0.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0004 gallons/foot X 23 feet) + 0.1 gallons = 0.13 gallons x 3 = 0.40

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~18~~ 21 DM	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~18~~ 21 DM	PURGING INITIATED AT: 0831	PURGING ENDED AT: 0842	TOTAL VOLUME PURGED (gallons): 0.82

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)	ORP (mV)
0836	0.30	0.30	0.06	19.04	4.79	26.49	195	2.77	2.65	Clear	97.6
0838	0.12	0.42	↓	19.05	4.79	26.60	194	2.75	2.62	↓	91.4
0840	0.12	0.64	↓	19.04	4.79	26.59	193	2.79	2.34	↓	88.6
0842	0.12	0.86	↓	19.06	4.80	26.59	192	2.81	2.01	↓	80.2

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: Daniel Montell / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: 0853
PUMP OR TUBING DEPTH IN WELL (feet): ~~18~~ 21 DM	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-27A	SAMPLE ID: 19323-MW-27A	DATE: 11/19/19	

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			
19323-MW-27A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	225
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
↓	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	↓
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-16AR	SAMPLE ID: 19323-MW-16AR	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13.5 feet to 23.5 feet	STATIC DEPTH TO WATER (feet): 18.11	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)
= (23.5 feet – 18.11 feet) X 0.16 gallons/foot = 0.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 26 feet) + 0.1 gallons = 0.14 gallons x3=0.41

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1428	PURGING ENDED AT: 1454	TOTAL VOLUME PURGED (gallons): 1.99

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)	ORP (mV)
1438	0.70	0.70	0.07	18.86	5.42	27.90	1120	3.61	33.2	Yellowish	-86.6
1443	0.35	1.05	↓	18.87	5.41	27.65	1118	1.95	17.3	"	-75.9
1448	0.35	1.45		18.88	5.39	27.59	1123	2.08	11.7	Clear	-92.6
1450	0.14	1.69		18.85	5.39	27.68	1147	2.10	10.4	↓	-104.3
1452	0.14	1.85		18.86	5.40	27.65	1153	2.08	10.0		-109.4
1454	0.14	1.99	↓	18.84	5.40	27.69	1155	2.02	9.64	↓	-114.7

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: Daniel Monpel / Geoyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1456	SAMPLING ENDED AT: 1505
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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			
				see	attached				

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-16AR	SAMPLE ID: 19323-MW-16AR	DATE: 11/19/19	

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			
19323-MW-16AR	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-16BR	SAMPLE ID: 19323-MW-16BR	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 36.5 feet to 46.5 feet	STATIC DEPTH TO WATER (feet): 18.13	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 47 feet) + 0.1 gallons = 0.17 gallons ×3= 0.50

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1516	PURGING ENDED AT: 1528	TOTAL VOLUME PURGED (gallons): 0.84

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)	ORP (mV)
1522	0.42	0.42	0.07	18.22	4.64	26.49	124	1.32	0.79	Clear	-49.5
1524	0.14	0.56	↓	18.23	4.60	26.32	116	1.13	0.71	↓	-50.3
1526	0.14	0.70		18.23	4.60	26.36	116	1.12	0.65		-48.1
1528	0.14	0.84		18.24	4.60	26.37	114	1.10	0.59		-49.7

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: Daniel Montel / Geoyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1539
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-16BR	SAMPLE ID: 19323-MW-16BR	DATE: 11/19/19	

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			
19323-MW-16BR	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW-17BR	SAMPLE ID: 19323 - MW-17BR	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 18.02	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons ×3=0.5

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1345	PURGING ENDED AT: 1359	TOTAL VOLUME PURGED (gallons): 0.98

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)	ORP (mV)
1353	0.56	0.56	0.07	18.86	4.88	26.87	101	0.80	0.89	Clear	-46.2
1355	0.14	0.70	↓	18.90	4.88	26.95	99	0.77	2.07	↓	-57.2
1357	0.14	0.84	↓	18.96	4.87	26.95	100	0.77	2.21	↓	-62.8
1359	0.14	0.98	↓	18.98	4.87	26.92	103	0.75	2.14	↓	-66.4

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: Samuel Knopfel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-17BR	SAMPLE ID: 19323-MW-17BR	DATE: 11/19/19	

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			
19323-MW-17BR	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-29B	SAMPLE ID: 19323-MW-29B	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.94	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons x3 = 0.50

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1221	PURGING ENDED AT: 1234	TOTAL VOLUME PURGED (gallons): 0.91

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)	ORP (mV)
1228	0.49	0.49	0.07	18.37	4.58	26.22	239	0.66	0.55	Clear	-9.8
1230	0.14	0.63	↓	18.38	4.59	26.19	238	0.88	1.23	↓	-21.4
1232	0.14	0.77	↓	18.37	4.58	26.22	238	0.89	1.14	↓	-25.6
1234	0.14	0.91	↓	18.38	4.59	26.22	237	0.91	1.08	↓	-28.1

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: Daniel Martel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1238	SAMPLING ENDED AT: 1245
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-29B	SAMPLE ID: 19323-MW-29B	DATE: 11/19/19	

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			
19323-MW-29B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	250
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-28B	SAMPLE ID: 19323-MW-28B	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 18.05	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 43 feet) + 0.1 gallons = 0.16 gallons x 3 = 0.48

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1116	TOTAL VOLUME PURGED (gallons): 0.96

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)	ORP (mV)
1110	0.60	0.60	0.06	18.69	4.82	26.24	154	0.91	2.15	Clear	-40.5
1112	0.12	0.72	↓	18.69	4.81	26.32	153	0.95	1.67	↓	-43.4
1114	0.12	0.84	↓	18.72	4.80	26.34	150	0.95	1.32	↓	-48.1
1116	0.12	0.96	↓	18.73	4.78	26.36	147	0.94	1.18	↓	-50.6

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: Daniel Montiel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1133
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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			
				see attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-28B	SAMPLE ID: 19323-MW-28B	DATE: 11/19/19	

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			
19323-MW-28A	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	225
	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
	1	PE	250mL	None	None		CL/NO3/TDS	APP	

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MW-27B	SAMPLE ID: 19323 -MW-27B	DATE: 11/19/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 18.19	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons x3 = ~~0.72~~ 0.49 DM

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0914	PURGING ENDED AT: 0926	TOTAL VOLUME PURGED (gallons): 0.72

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)	ORP (mV)
0920	0.36	0.36	0.06	18.51	5.22	26.06	149	0.83	1.15	Clear	1.3
0922	0.12	0.48	↓	18.52	5.18	25.95	150	0.53	1.17	↓	-16.0
0924	0.12	0.60		18.51	5.17	25.95	150	0.49	1.21		-18.6
0926	0.12	0.72		18.52	5.17	25.94	149	0.54	1.10		-20.8

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: Daniel Mondel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0928	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: HDPE	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			
				See attached					

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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	JED Solid Waste Landfill	SITE LOCATION:	1501 Omni Way, St. Cloud, FL 34733
WELL NO: MW-27B	SAMPLE ID: 19323-MW-27B	DATE: 11/19/19	

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			
19323-MW-27B	3	CG	40mL	HCl	Prefilled by lab	<2	VOA/EDB	APP	225
↓	1	PE	500mL	HNO3	Prefilled by lab	<2	Metals	APP	↓
	1	PE	250mL	H2SO4	Prefilled by lab	<2	NH3	APP	
↓	1	PE	250mL	None	None		CL/NO3/TDS	APP	↓

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)

APPENDIX C
Field Instrument Calibration Logs

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED SWDF - May 2019 GW Project #: FR 3347B Field Personnel: Neil Stapley

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10G101446 Turbidimeter - Model/Serial # HACH 2100Q / 18010C064316

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL / ICV CCV		5/14/19	0842	23.58	8.482	9.18 / 8.48	108.1 / 100.0	P F
CAL ICV CCV		↓	2250	23.61	8.482	8.57	101.1	P F
CAL ICV CCV		5/15/19	2140	23.25	8.530	8.51	99.6	P F
CAL ICV CCV								P F

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL ICV CCV	5/14/19	9.95	P F
CAL ICV CCV	5/15/19	10.1	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL / ICV CCV		5/14/19	0832	1.413	9GB399	Feb 2020	1.375 / 1.413	P F
CAL ICV CCV		↓	2240	↓	↓	↓	1.414	P F
CAL ICV CCV		5/15/19	2128				1.412	P F
CAL ICV CCV								P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL ICV CCV	5/14/19	19.8	P F
CAL ICV CCV	5/15/19	19.0	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		5/14/19	0824	7.0	9GB719	Feb 2021	7.00	P F
CAL ICV CCV			0827	4.0	9GB303	Feb 2021	3.95	P F
CAL ICV CCV			0830	10.0	9GA1078	Jan 2021	10.09	P F
CAL ICV CCV			2230				6.93	P F
CAL ICV CCV			2234	SAME AS ABOVE			3.91	P F
CAL ICV CCV			2238				10.11	P F
CAL ICV CCV		5/15/19	2110				6.91	P F
CAL ICV CCV			2123				3.85	P F
CAL ICV CCV			2126				10.06	P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL ICV CCV	5/14/19	98.6	P F
CAL ICV CCV	5/15/19	99.3	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/14/19	0835	240.0	3054	Jan 2023	242.6	P F
CAL ICV CCV		5/14/19	2243	↓	↓	↓	239.0	P F
CAL ICV CCV		5/15/19	2131				241.8	P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL ICV CCV	5/14/19	806	P F
CAL ICV CCV	5/15/19	795	P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED SVDF - Spring 2019GW Project #: FR3347B Field Personnel: N. Stapley

Water Quality Meter - Model/Serial #: YSI 556MPS / 10G101446 Turbidimeter - Model/Serial # HACH 2100Q / 18010C064316

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		5/16/19	1731	22.58	8.664	8.93	103.21	(P) F
CAL ICV (CCV)		5/17/19	1105	18.66	7.732	7.57	97.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL ICV (CCV)	5/16/19	9.66	(P) F
CAL ICV (CCV)	5/17/19	9.84	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5/16/19	1719	1.413	9GB299	Feb 2020	1.409	(P) F
CAL ICV (CCV)		5/17/19	1054	↓	↓	↓	1.414	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL ICV (CCV)	5/16/19	18.8	(P) F
CAL ICV (CCV)	5/17/19	19.6	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		5/16/19	1710	7.0	9GB719	Feb 2021	6.90	(P) F
CAL ICV (CCV)		↓	1714	4.0	9GB303	Feb 2021	3.85	(P) F
CAL ICV (CCV)		↓	1717	10.0	9GA1078	June 2021	10.02	(P) F
CAL ICV (CCV)		5/17/19	1045	SAME AS ABOVE			6.89	(P) F
CAL ICV (CCV)		↓	1048				3.88	(P) F
CAL ICV (CCV)		↓	1052				10.02	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL ICV (CCV)	5/16/19	Non 100	(P) F
CAL ICV (CCV)	5/17/19	99.91	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5/16/19	1722	240.0	3054	June 2023	240.9	(P) F
CAL ICV (CCV)		5/17/19	1056	↓	↓	↓	233.8	(P) F
CAL ICV CCV								P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL ICV (CCV)	5/16/19	805	(P) F
CAL ICV (CCV)	5/17/19	808	(P) F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Landfill Project #: FR3347B Field Personnel: Daniel Montiel

Water Quality Meter - Model/Serial #: YSI 556 / 12M100096 Turbidimeter - Model/Serial # HACH 2100Q / 17040C057545

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		5/13/19	1836	24.63	8.32	8.17	98.8	(P) F
CAL ICV CCV		5/14/19	1952	22.17	8.71	8.46	96.7	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/13/19	1816	1.413	9GB299	2/2020	1.381	(P) F
CAL ICV CCV		5/14/19	1929	1.413	9GB299	2/2020	1.394	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		5/13/19	1818	7.00	9GB719	2/2021	6.99	(P) F
CAL ICV CCV		↓	1821	4.00	9GB303	2/2021	4.03	(P) F
CAL ICV CCV		↓	1822	10.00	9GA1078	1/2021	9.96	(P) F
CAL ICV CCV		5/14/19	1920	7.00	9GB719	2/2021	7.00	(P) F
CAL ICV CCV		↓	1923	4.00	9GB303	2/2021	4.02	(P) F
CAL ICV CCV		↓	1925	10.00	9GA1078	1/2021	9.97	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/13/19	1825	240	3054	6/2023	234	(P) F
CAL ICV CCV		5/14/19	1937	240	3054	6/2023	231	(P) F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	5/13/19	10.0	(P) F
CAL ICV CCV	5/14/19	10.2	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	5/13/19	20.1	(P) F
CAL ICV CCV	5/14/19	19.7	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV	5/13/19	96.9	(P) F
CAL ICV CCV	5/14/19	95.1	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV	5/13/19	801	(P) F
CAL ICV CCV	5/14/19	799	(P) F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0 1 mS/cm then one standard of 0 1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Solid Waste Landfill Project #: FR3347B Field Personnel: Boone Abbott

Water Quality Meter - Model/Serial #: YSI 556MPS / 12M100096 Turbidimeter - Model/Serial # Hach 2100Q / 17040C057545

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		5-16-19		25.32	(B)	[illegible]	101.6	P F
CAL ICV CCV		5-16-19	1130	25.32	8.215	8.35	101.6	(P) F
CAL ICV CCV		5-16-19	1713	23.70	8.466	8.76	103.5	(P) F
CAL ICV CCV		5-17-19	1111	28.93	7.705	7.83	101.6	(P) F

Turbidity 0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL ICV CCV	5-16-19	10.1	(P) F
CAL ICV CCV	5-16-19	10.1	(P) F
CAL ICV CCV	5-17-19	10.2	(P) F
CAL ICV CCV			P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		5-16-19	1117	1.413	96B299	2-20	1.408	(P) F
CAL ICV CCV		5-16-19	1718	1.413	96B299	2-20	1.414	(P) F
CAL ICV CCV		5-17-19	1120	1.413	96B299	2-20	1.423	(P) F
CAL ICV CCV								P F

Turbidity 11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL ICV CCV	5-16-19	21.1	(P) F
CAL ICV CCV	5-16-19	21.2	(P) F
CAL ICV CCV	5-17-19	20.4	(P) F
CAL ICV CCV			P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		5-16-19	1112	7.00	96B719	2-21	6.96	(P) F
CAL ICV CCV		5-16-19	1114	4.00	96B303	2-21	4.02	(P) F
CAL ICV CCV		5-16-19	1116	10.00	96A1078	1-21	9.97	(P) F
CAL ICV CCV		5-16-19	1714	7.00	96B719	2-21	7.05	(P) F
CAL ICV CCV		5-16-19	1716	4.00	96B303	2-21	4.01	(P) F
CAL ICV CCV		5-16-19	1717	10.00	96A1078	1-21	9.99	(P) F
CAL ICV CCV		5-17-19	1116	7.00	96B719	2-21	6.94	(P) F
CAL ICV CCV		5-17-19	1118	4.00	96B303	2-21	3.99	(P) F
CAL ICV CCV		5-17-19	1119	10.00	96A1078	1-21	9.89	(P) F

Turbidity 41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL ICV CCV	5-16-19	100	(P) F
CAL ICV CCV	5-16-19	99.2	(P) F
CAL ICV CCV	5-17-19	100	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5-16-19	1118	240@25.0	3054	6-23	245.0@26.41	(P) F
CAL ICV CCV		5-16-19	1720	240@25.0	3054	6-23	241.7@27.16	(P) F
CAL ICV CCV		5-17-19	1115	240@25.0	3054	6-23	238.4@28.99	(P) F

Turbidity >100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL ICV CCV	5-16-19	785	(P) F
CAL ICV CCV	5-16-19	784	(P) F
CAL ICV CCV	5-17-19	784	(P) F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0 1 mS/cm then one standard of 0 1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i e pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Solid Waste Landfill Project #: FR3347B Field Personnel: Neil Stapley

Water Quality Meter - Model/Serial #: YSI 556 MPS / 15C 103564 Turbidimeter - Model/Serial # HACH 2100Q / 15040C040144

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		11/19/19	0624	21.56	8.812	8.96	101.6	(P) F
CAL ICV (CCV)		↓	2145	23.72	8.466	8.45	98.2	(P) F
CAL ICV (CCV)		11/20/19	2108	22.21	8.710	8.72	100.6	(P) F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		11/19/19	0615	1.413	9GF944	June 2020	1.426/1.413	(P) F
CAL ICV (CCV)		↓	2130	↓	↓	↓	1.400	(P) F
CAL ICV (CCV)		11/20/19	2054				1.410	(P) F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		11/19/19	0605	7.0	9GG002	July 2021	7.17/7.00	(P) F
(CAL) (ICV) CCV			0608	4.0	9GE1030	May 2021	3.93/4.00	(P) F
(CAL) (ICV) CCV			0612	10.0	9GF372	June 2021	10.11/10.02	(P) F
CAL ICV (CCV)			2120				6.92	(P) F
CAL ICV (CCV)			2123	SAME			3.99	(P) F
CAL ICV (CCV)		↓	2126		AS		10.03	(P) F
CAL ICV (CCV)		11/20/19	2045			ABOVE	6.92	(P) F
CAL ICV (CCV)			2049				4.00	(P) F
CAL ICV (CCV)		↓	2052				9.99	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		11/19/19	0618	240.25	9GF122	Mar 2020	241.1	(P) F
CAL ICV (CCV)		↓	2134	↓	↓	↓	240.5	(P) F
CAL ICV (CCV)		11/20/19	2056				240.7	(P) F

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL (ICV) CCV	11/19/19	9.65	(P) F
CAL ICV (CCV)	↓	9.50	(P) F
CAL ICV CCV	11/20/19	9.35	(P) F
CAL ICV CCV			P F

11 - 40 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL (ICV) CCV	11/19/19	19.3	(P) F
CAL ICV (CCV)	↓	19.4	(P) F
CAL ICV (CCV)	11/20/19	19.1	(P) F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL (ICV) CCV	11/19/19	97.7	(P) F
CAL ICV (CCV)	↓	98.8	(P) F
CAL ICV (CCV)	11/20/19	97.4	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL (ICV) CCV	11/19/19	825	(P) F
CAL ICV (CCV)	↓	830	(P) F
CAL ICV (CCV)	11/20/19	814	(P) F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: SED Solid Waste Landfill Project #: FR3347B Field Personnel: Neil Shepley

Water Quality Meter - Model/Serial #: YSI 556 MPS / 15C103564 Turbidimeter - Model/Serial # HACH 2100Q / 15040C040144

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		11/21/19	1758	21.78	8.777	8.82	100.4	(P) F
CAL ICV (CCV)		11/22/19	1540	22.18	8.710	8.91	102.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		11/21/19	1745	1.413	9GF949	June 2020	1.404	(P) F
CAL ICV (CCV)		11/22/19	1528	↓	↓	↓	1.411	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		11/21/19	1736	7.0	9GG002	Jul, 2021	6.95	(P) F
CAL ICV (CCV)		↓	1739	4.0	9GE1030	May 2021	4.00	(P) F
CAL ICV (CCV)		↓	1742	10.0	9GF372	June 2021	9.98	(P) F
CAL ICV (CCV)		11/22/19	1520	SAME AS ABOVE			6.96	(P) F
CAL ICV (CCV)		↓	1523				4.02	(P) F
CAL ICV (CCV)		↓	1526				9.99	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		11/21/19	1748	240@25	9GF132	Mar 2020	239.7	(P) F
CAL ICV (CCV)		11/22/19	1531	↓	↓	↓	237.3	(P) F
CAL ICV CCV								P F

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV (CCV)	11/21/19	10.0	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV (CCV)	11/21/19	19.9	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV (CCV)	11/21/19	102	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV (CCV)	11/21/19	848	P (F)
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Solid Waste Landfill Project #: FR3347 Field Personnel: Daniel Montfort + Neil Stapley

Water Quality Meter - Model/Serial #: YSI SSG / 12L101301 Turbidimeter - Model/Serial # HACH 2100Q / 13060C026176

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		11/19/19	0822	16.72	9.73	9.61	93.5	P F
CAL ICV CCV		11/20/19	0834	17.87	9.49	9.32	91.7	P F
CAL ICV CCV		11/21/19	0826	18.14	9.45	9.39	92.0	P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		11/19/19	0811	1.413	9GF944	06/2020	1.441	P F
CAL ICV CCV		11/20/19	0831	"	"	"	1.428	P F
CAL ICV CCV		11/21/19	0818	"	"	"	1.437	P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		11/19/19	0814	7.00	9GG002	07/2021	7.04	P F
CAL ICV CCV		↓	0815	10.00	9GF372	06/2021	10.12	P F
CAL ICV CCV		↓	0817	4.00	9GE1020	05/2021	4.08	P F
CAL ICV CCV		11/20/19	0821	7.00	"	"	7.01	P F
CAL ICV CCV		↓	0822	10.00	"	"	10.09	P F
CAL ICV CCV		↓	0823	4.00	"	"	4.03	P F
CAL ICV CCV		11/21/19	0820	7.00	"	"	7.05	P F
CAL ICV CCV		↓	0821	10.00	"	"	10.08	P F
CAL ICV CCV		↓	0823	4.00	"	"	3.98	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		11/19/19	0819	240	9GF122	03/2020	243.8	P F
CAL ICV CCV		11/20/19	0825	"	"	"	248.1	P F
CAL ICV CCV		11/21/19	0824	"	"	"	231.2	P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	11/20/19	10.3	P F
CAL ICV CCV	11/21/19	10.1	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	11/20/19	20.7	P F
CAL ICV CCV	11/21/19	20.3	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV	11/20/19	98.8	P F
CAL ICV CCV	11/21/19	103.7	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

APPENDIX D

Groundwater and Surface Water Analytical Laboratory Reports

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, May 15, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

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6681 Southpoint Pkwy Jacksonville, FL32216
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Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906176001	19134-CW-1A	Water	5/14/2019 12:54	5/15/2019 08:45
J1906176002	19134-MW-23A	Water	5/14/2019 09:36	5/15/2019 08:45
J1906176003	19134-MW-23B	Water	5/14/2019 10:12	5/15/2019 08:45
J1906176004	19134-MW-25A	Water	5/14/2019 13:13	5/15/2019 08:45
J1906176005	19134-MW-25B	Water	5/14/2019 13:53	5/15/2019 08:45
J1906176006	19134-MW-30A	Water	5/14/2019 11:11	5/15/2019 08:45
J1906176007	19134-MW-30B	Water	5/14/2019 11:32	5/15/2019 08:45
J1906176008	19134-MW-31A	Water	5/14/2019 11:36	5/15/2019 08:45
J1906176009	19134-MW-31B	Water	5/14/2019 12:04	5/15/2019 08:45
J1906176010	19134-EQ-1	Water	5/14/2019 13:30	5/15/2019 08:45
J1906176011	19134-TripBlank-1	Water	5/14/2019 00:00	5/15/2019 08:45

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**160**		**ug/L**	**1**	40	9.0	5/16/2019 13:32	J
Barium	**69**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 13:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Chromium	**10**		**ug/L**	**1**	8.0	2.0	5/16/2019 13:32	J
Cobalt	**2.4**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:32	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 13:32	J
Iron	**8500**		**ug/L**	**1**	400	100	5/16/2019 13:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 13:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 13:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 13:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 13:32	J
Sodium	**27**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:14	J
Vanadium	**5.4**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 13:32	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.21**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 18:31	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 18:31	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:34	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 15:55	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 15:55	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 15:55	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 15:55	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 15:55	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 15:55	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 15:55	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 15:55	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 15:55	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 15:55	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 15:55	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 15:55	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 15:55	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 15:55	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 15:55	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 15:55	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 15:55	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 15:55	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 15:55	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 15:55	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 15:55	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 15:55	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 15:55	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 15:55	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 15:55	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 15:55	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 15:55	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 15:55	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 15:55	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 15:55	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 15:55	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 15:55	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 15:55	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 15:55	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 15:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 15:55	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 15:55	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 15:55	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 15:55	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 15:55	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 15:55	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 15:55	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		5/16/2019 15:55	
Toluene-d8 (S)	**92**		**%**	**1**	77-119		5/16/2019 15:55	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/16/2019 15:55	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 15:55	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 15:55	J
1,2-Dichloroethane-d4 (S)	**121**		**%**	**1**	77-125		5/16/2019 15:55	
Toluene-d8 (S)	**97**		**%**	**1**	80-121		5/16/2019 15:55	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		5/16/2019 15:55	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**58**		**mg/L**	**1**	5.0	0.50	5/15/2019 12:33	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	5/15/2019 12:33	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**5**	0.050	0.040	5/23/2019 11:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**380**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 13:58	J
Barium	**32**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:58	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 13:58	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 13:58	J
Chromium	**4.1**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:58	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:58	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 13:58	J
Iron	**890**		**ug/L**	**1**	400	100	5/16/2019 13:58	J
Lead	**4.7**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 13:58	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 13:58	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 13:58	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 13:58	J
Sodium	**250**		**mg/L**	**10**	14	3.5	5/20/2019 16:17	J
Vanadium	**12**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 13:58	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.24**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 18:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 18:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:51	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 16:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 16:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 16:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 16:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 16:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 16:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 16:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 16:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 16:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 16:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 16:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 16:34	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 16:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 16:34	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 16:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 16:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 16:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 16:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 16:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 16:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 16:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 16:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 16:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 16:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 16:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 16:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 16:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 16:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 16:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 16:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 16:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 16:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 16:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 16:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 16:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 16:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 16:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 16:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 16:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 16:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 16:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 16:34	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 16:34	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 16:34	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/16/2019 16:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 16:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 16:34	J
1,2-Dichloroethane-d4 (S)	**119**		**%**	**1**	77-125		5/16/2019 16:34	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 16:34	
Bromofluorobenzene (S)	**115**		**%**	**1**	80-129		5/16/2019 16:34	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**680**		**mg/L**	**5**	25	2.5	5/15/2019 13:16	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/15/2019 13:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**16**	**J4**	**mg/L**	**20**	0.20	0.16	5/20/2019 15:53	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:02	J
Barium	**150**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:02	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:02	J
Chromium	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:02	J
Cobalt	**3.4**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:02	J
Iron	**3100**		**ug/L**	**1**	400	100	5/16/2019 14:02	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:02	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:02	J
Sodium	**340**		**mg/L**	**10**	14	3.5	5/20/2019 16:21	J
Vanadium	**16**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:02	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.33**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:03	J
Thallium	**0.089**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:54	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 17:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 17:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 17:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 17:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 17:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 17:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 17:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 17:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 17:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 17:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 17:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 17:04	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/16/2019 17:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 17:04	J
Benzene	**0.29**	**I**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 17:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 17:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 17:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 17:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 17:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 17:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 17:04	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 17:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 17:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 17:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 17:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 17:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 17:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 17:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 17:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 17:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 17:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 17:04	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		5/16/2019 17:04	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		5/16/2019 17:04	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 17:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 17:04	J
1,2-Dichloroethane-d4 (S)	**117**		**%**	**1**	77-125		5/16/2019 17:04	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 17:04	
Bromofluorobenzene (S)	**63**		**%**	**1**	80-129		5/16/2019 17:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**880**		**mg/L**	**10**	50	5.0	5/15/2019 13:37	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/15/2019 13:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**19**		**mg/L**	**25**	0.25	0.20	5/20/2019 15:56	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/19/2019 19:54	

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:05	J
Barium	**77**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:05	J
Beryllium	**1.4**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:05	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:05	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:05	J
Cobalt	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:05	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:05	J
Iron	**19000**		**ug/L**	**1**	400	100	5/16/2019 14:05	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:05	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:05	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:05	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:05	J
Sodium	**61**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:24	J
Vanadium	**5.4**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:05	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:08	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:08	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:57	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 17:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 17:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 17:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 17:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 17:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 17:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 17:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 17:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 17:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 17:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 17:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 17:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 17:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 17:40	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 17:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 17:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 17:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 17:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 17:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 17:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 17:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 17:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 17:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 17:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 17:40	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 17:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 17:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 17:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 17:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 17:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 17:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 17:40	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	70-128		5/16/2019 17:40	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 17:40	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/16/2019 17:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 17:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 17:40	J
1,2-Dichloroethane-d4 (S)	**122**		**%**	**1**	77-125		5/16/2019 17:40	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 17:40	
Bromofluorobenzene (S)	**120**		**%**	**1**	80-129		5/16/2019 17:40	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**150**		**mg/L**	**2**	10	1.0	5/15/2019 13:59	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 13:59	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**15**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:42	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**740**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25B** Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:09	J
Barium	**29**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:09	J
Iron	**950**		**ug/L**	**1**	400	100	5/16/2019 14:09	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 14:09	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:09	J
Sodium	**13**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:28	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:40	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:12	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:12	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:00	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 18:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 18:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 18:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 18:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 18:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 18:10	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25B** Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 18:10	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 18:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 18:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 18:10	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 18:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 18:10	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 18:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 18:10	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 18:10	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 18:10	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 18:10	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 18:10	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 18:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 18:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:10	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 18:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 18:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 18:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 18:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 18:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 18:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 18:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 18:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 18:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 18:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:10	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 18:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 18:10	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		5/16/2019 18:10	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 18:10	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-25B** Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 18:10	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 18:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 18:10	J
1,2-Dichloroethane-d4 (S)	**122**		**%**	**1**	77-125		5/16/2019 18:10	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 18:10	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 18:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**33**		**mg/L**	**1**	5.0	0.50	5/15/2019 14:20	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 14:20	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.25**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:59	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**96**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/22/2019 13:05	J
Barium	**44**		**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/22/2019 13:05	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 17:00	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 13:05	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/22/2019 13:05	J
Iron	**740**		**ug/L**	**1**	400	100	5/22/2019 13:05	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/22/2019 17:00	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/22/2019 13:05	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/22/2019 13:05	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/22/2019 13:05	J
Sodium	**27**		**mg/L**	**1**	1.4	0.35	5/22/2019 13:05	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/22/2019 13:05	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.39**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:16	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:16	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:10	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 18:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 18:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 18:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 18:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 18:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 18:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 18:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 18:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 18:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 18:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 18:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 18:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 18:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 18:46	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 18:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 18:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 18:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 18:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 18:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 18:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 18:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 18:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 18:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 18:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 18:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 18:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 18:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 18:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 18:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 18:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 18:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 18:46	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	70-128		5/16/2019 18:46	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		5/16/2019 18:46	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		5/16/2019 18:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 18:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 18:46	J
1,2-Dichloroethane-d4 (S)	**123**		**%**	**1**	77-125		5/16/2019 18:46	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 18:46	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		5/16/2019 18:46	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**45**		**mg/L**	**1**	5.0	0.50	5/15/2019 14:42	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 14:42	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.36**		**mg/L**	**1**	0.010	0.0080	5/20/2019 14:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/22/2019 13:09	J
Barium	**12**		**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/22/2019 13:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 17:04	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 13:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/22/2019 13:09	J
Iron	**1600**		**ug/L**	**1**	400	100	5/22/2019 13:09	J
Lead	**4.2**	**I**	**ug/L**	**1**	12	3.0	5/22/2019 17:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/22/2019 13:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/22/2019 13:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/22/2019 13:09	J
Sodium	**6.6**		**mg/L**	**1**	1.4	0.35	5/22/2019 13:09	J
Vanadium	**1.2**	**I**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/22/2019 13:09	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:20	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:20	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:13	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 19:16	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 19:16	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 19:16	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 19:16	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 19:16	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 19:16	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 19:16	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 19:16	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 19:16	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 19:16	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 19:16	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 19:16	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 19:16	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 19:16	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:16	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 19:16	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 19:16	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 19:16	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 19:16	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 19:16	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:16	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 19:16	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:16	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 19:16	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:16	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 19:16	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 19:16	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 19:16	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 19:16	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:16	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:16	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:16	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 19:16	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 19:16	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 19:16	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:16	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 19:16	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 19:16	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:16	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:16	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 19:16	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 19:16	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 19:16	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 19:16	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 19:16	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 19:16	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 19:16	J
1,2-Dichloroethane-d4 (S)	**120**		**%**	**1**	77-125		5/16/2019 19:16	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 19:16	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 19:16	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/15/2019 15:03	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 15:03	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.07**		**mg/L**	**1**	0.010	0.0080	5/20/2019 14:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**940**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:12	J
Barium	**77**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:12	J
Beryllium	**4.0**		**ug/L**	**1**	2.0	0.50	5/16/2019 14:12	J
Cadmium	**1.6**	**I**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:12	J
Chromium	**3.3**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:12	J
Cobalt	**24**		**ug/L**	**1**	8.0	2.0	5/16/2019 14:12	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:12	J
Iron	**96000**		**ug/L**	**1**	400	100	5/16/2019 14:12	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:12	J
Nickel	**14**	**I**	**ug/L**	**1**	24	6.0	5/16/2019 14:12	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:12	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:12	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:31	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:12	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:24	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:24	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:16	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 19:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 19:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 19:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 19:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 19:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 19:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 19:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 19:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 19:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 19:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 19:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 19:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 19:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 19:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 19:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 19:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 19:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 19:53	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 19:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 19:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 19:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 19:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 19:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 19:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 19:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 19:53	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 19:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 19:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 19:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 19:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 19:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 19:53	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	70-128		5/16/2019 19:53	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		5/16/2019 19:53	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/16/2019 19:53	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 19:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 19:53	J
1,2-Dichloroethane-d4 (S)	**125**		**%**	**1**	77-125		5/16/2019 19:53	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 19:53	
Bromofluorobenzene (S)	**118**		**%**	**1**	80-129		5/16/2019 19:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**32**		**mg/L**	**2**	10	1.0	5/15/2019 16:08	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 16:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**16**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:43	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1000**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:15	J
Barium	**120**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:15	J
Beryllium	**1.5**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:15	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:15	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:15	J
Cobalt	**19**		**ug/L**	**1**	8.0	2.0	5/16/2019 14:15	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:15	J
Iron	**56000**		**ug/L**	**1**	400	100	5/16/2019 14:15	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 14:15	J
Nickel	**13**	**I**	**ug/L**	**1**	24	6.0	5/16/2019 14:15	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:15	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:15	J
Sodium	**32**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:35	J
Vanadium	**0.0010**	**U**	**mg/L**	**1**	0.0040	0.0010	5/22/2019 15:47	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:15	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:29	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:20	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 20:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 20:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 20:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 20:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 20:22	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 20:22	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 20:22	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 20:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 20:22	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 20:22	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 20:22	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 20:22	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 20:22	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 20:22	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 20:22	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 20:22	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 20:22	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 20:22	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 20:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 20:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:22	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 20:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 20:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 20:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 20:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 20:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:22	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 20:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 20:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 20:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 20:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 20:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:22	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 20:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 20:22	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	70-128		5/16/2019 20:22	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 20:22	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/16/2019 20:22	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 20:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 20:22	J
1,2-Dichloroethane-d4 (S)	**123**		**%**	**1**	77-125		5/16/2019 20:22	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 20:22	
Bromofluorobenzene (S)	**114**		**%**	**1**	80-129		5/16/2019 20:22	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**2**	10	1.0	5/15/2019 16:29	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 16:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**2**	0.020	0.016	5/20/2019 16:01	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:19	J
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:19	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:19	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:19	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:19	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:19	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:19	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/16/2019 14:19	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:19	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:19	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:19	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:19	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	5/20/2019 16:38	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:50	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:19	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:23	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 20:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 20:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 20:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 20:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 20:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 20:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 20:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 20:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 20:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 20:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 20:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 20:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 20:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 20:59	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 20:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 20:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 20:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 20:59	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 20:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 20:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 20:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 20:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 20:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 20:59	J
Methylene Chloride	**30**		**ug/L**	**1**	5.0	2.5	5/16/2019 20:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 20:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 20:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 20:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 20:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 20:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 20:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 20:59	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		5/16/2019 20:59	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		5/16/2019 20:59	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 20:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 20:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 20:59	J
1,2-Dichloroethane-d4 (S)	**118**		**%**	**1**	77-125		5/16/2019 20:59	
Toluene-d8 (S)	**92**		**%**	**1**	80-121		5/16/2019 20:59	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 20:59	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	5/15/2019 16:51	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 16:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	5/20/2019 14:32	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**110**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176011** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-TripBlank-1** Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 21:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 21:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 21:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 21:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 21:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 21:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 21:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 21:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 21:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 21:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 21:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 21:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 21:28	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176011** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-TripBlank-1** Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 21:28	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 21:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 21:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 21:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 21:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 21:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 21:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 21:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 21:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 21:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 21:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 21:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 21:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 21:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 21:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 21:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 21:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 21:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 21:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 21:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 21:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 21:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 21:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 21:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 21:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 21:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 21:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 21:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 21:28	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 21:28	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 21:28	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/16/2019 21:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 21:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 21:28	J
1,2-Dichloroethane-d4 (S)	**120**		**%**	**1**	77-125		5/16/2019 21:28	
Toluene-d8 (S)	**93**		**%**	**1**	80-121		5/16/2019 21:28	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176011** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-TripBlank-1** Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**117**		**%**	**1**	80-129		5/16/2019 21:28	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4963 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3096202

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3096203 3096204

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	21	21	105	107	90-110	2	10	
Nitrate (as N)	mg/L	2	1.8	1.9	92	93	90-110	0	10	

MATRIX SPIKE SAMPLE: 3096205 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	58	20	64	28	90-110	
Nitrate (as N)	mg/L	0.009	2	1.7	83	90-110	

MATRIX SPIKE SAMPLE: 3096350 Original: J1906184002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	120	20	110	-10	90-110	
Nitrate (as N)	mg/L	1.3	2	3.9	134	90-110	

QC Batch: DGMj/3402 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 05/16/2019 04:00
Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176008, J1906176009, J1906176010

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3096885

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.0	1.0	U
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3096886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	100	80-120	
Arsenic	ug/L	200	190	95	80-120	
Barium	ug/L	20	20	101	80-120	
Beryllium	ug/L	10	9.8	98	80-120	
Cadmium	ug/L	20	20	98	80-120	
Cobalt	ug/L	40	40	100	80-120	
Chromium	ug/L	40	40	101	80-120	
Copper	ug/L	80	79	99	80-120	
Iron	ug/L	2000	2000	98	80-120	
Nickel	ug/L	120	120	100	80-120	
Lead	ug/L	60	58	97	80-120	
Selenium	ug/L	800	760	95	80-120	
Vanadium	ug/L	20	20	102	80-120	
Zinc	ug/L	1000	970	97	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096920 3096921 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	97	94	75-125	4	20	
Arsenic	ug/L	160	200	340	340	93	92	75-125	1	20	
Barium	ug/L	69	20	88	86	96	85	75-125	3	20	
Beryllium	ug/L	0.1	10	10	9.7	101	97	75-125	4	20	
Cadmium	ug/L	0.2	20	20	19	98	96	75-125	3	20	
Cobalt	ug/L	2.4	40	42	41	98	96	75-125	2	20	
Chromium	ug/L	10	40	51	50	102	98	75-125	3	20	
Copper	ug/L	3.4	80	76	74	96	93	75-125	3	20	
Iron	ug/L	8500	2000	10000	10000	92	81	75-125	2	20	
Nickel	ug/L	1.4	120	120	120	101	98	75-125	2	20	
Lead	ug/L	1.5	60	59	59	98	98	75-125	0	20	
Selenium	ug/L	0	800	740	720	93	90	75-125	3	20	
Vanadium	ug/L	5.4	20	26	25	102	99	75-125	2	20	
Zinc	ug/L	8.3	1000	980	960	98	96	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096920 3096921 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Sodium	mg/L	27	7	32	32	70	79	75-125	2	20	

QC Batch: DGMj/3408 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/16/2019 11:45

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3097875

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3097876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3097876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097877 3097878 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	2.0	2.0	102	102	80-120	0	20	

QC Batch: MSVj/3582 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/16/2019 11:29

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3098837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3098837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	106	70-128	
Toluene-d8 (S)	%	91	77-119	
Bromofluorobenzene (S)	%	106	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3098838 3098839

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	24	15	122	76		47		
Vinyl Chloride	ug/L	20	24	17	118	84	70-130	34	20	
Bromomethane	ug/L	20	24	8.9	122	45		93		
Chloroethane	ug/L	20	24	21	122	104		16		
Trichlorofluoromethane	ug/L	20	23	20	117	101		15		
Acetone	ug/L	20	19	15	96	75		25		
1,1-Dichloroethylene	ug/L	20	24	20	118	101	70-130	15	20	
Iodomethane (Methyl Iodide)	ug/L	20	22	12	110	61		58		
Acrylonitrile	ug/L	20	20	17	102	85		19		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3098838 3098839

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	20	23	21	117	106		10		
Carbon Disulfide	ug/L	20	23	19	116	95		20		
trans-1,2-Dichloroethylene	ug/L	20	23	21	117	103		13		
1,1-Dichloroethane	ug/L	20	23	21	115	105		9		
Vinyl Acetate	ug/L	20	20	12	101	61		49		
2-Butanone (MEK)	ug/L	20	19	12	97	61		45		
cis-1,2-Dichloroethylene	ug/L	20	23	20	114	98	70-130	15	20	
Bromochloromethane	ug/L	20	26	23	131	114		14		
Chloroform	ug/L	20	24	22	119	112	70-130	6	20	
1,2-Dichloroethane	ug/L	20	23	21	113	105		8		
1,1,1-Trichloroethane	ug/L	20	23	23	113	114		1		
Carbon Tetrachloride	ug/L	20	23	22	115	110		4		
Benzene	ug/L	20	24	22	119	110	70-130	8	20	
Dibromomethane	ug/L	20	23	22	113	109		4		
1,2-Dichloropropane	ug/L	20	23	22	116	112		3		
Trichloroethene	ug/L	20	23	22	115	112	70-130	2	20	
Bromodichloromethane	ug/L	20	23	23	115	115		0		
cis-1,3-Dichloropropene	ug/L	20	20	19	102	97		4		
4-Methyl-2-pentanone (MIBK)	ug/L	20	18	17	92	83		10		
trans-1,3-Dichloropropylene	ug/L	20	20	20	102	99		4		
1,1,2-Trichloroethane	ug/L	20	22	22	111	109		2		
Toluene	ug/L	20	22	20	111	99	70-130	11	20	
2-Hexanone	ug/L	20	18	16	89	78		13		
Dibromochloromethane	ug/L	20	21	19	106	97		9		
Tetrachloroethylene (PCE)	ug/L	20	22	19	109	96	70-130	13	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	20	111	100		11		
Chlorobenzene	ug/L	20	22	20	112	99	70-130	12	20	
Ethylbenzene	ug/L	20	23	21	115	104	70-130	10	20	
Bromoform	ug/L	20	20	18	100	92		9		
Styrene	ug/L	20	21	20	107	99		9		
1,1,2,2-Tetrachloroethane	ug/L	20	21	18	107	91		15		
1,2,3-Trichloropropane	ug/L	20	20	18	100	88		13		
1,4-Dichlorobenzene	ug/L	20	21	19	106	95		12		
1,2-Dichlorobenzene	ug/L	20	21	20	107	98	70-130	10	20	
Xylene (Total)	ug/L	60	70	62	117	104	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%				93	93	70-128	1		
Toluene-d8 (S)	%				92	92	77-119	1		
Bromofluorobenzene (S)	%				102	101	86-123	1		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3098840 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	17	85		
Vinyl Chloride	ug/L	0	20	19	93	70-130	
Bromomethane	ug/L	0	20	12	59		
Chloroethane	ug/L	0	20	22	108		
Trichlorofluoromethane	ug/L	0	20	21	103		
Acetone	ug/L	0	20	17	84		
1,1-Dichloroethylene	ug/L	0	20	21	106	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	14	70		
Acrylonitrile	ug/L	0	20	21	103		
Methylene Chloride	ug/L	0	20	21	106		
Carbon Disulfide	ug/L	0	20	20	99		
trans-1,2-Dichloroethylene	ug/L	0	20	22	108		
1,1-Dichloroethane	ug/L	0	20	22	110		
Vinyl Acetate	ug/L	0	20	16	81		
2-Butanone (MEK)	ug/L	0	20	13	66		
cis-1,2-Dichloroethylene	ug/L	0	20	20	102	70-130	
Bromochloromethane	ug/L	0	20	24	121		
Chloroform	ug/L	0	20	23	115	70-130	
1,2-Dichloroethane	ug/L	0	20	22	110		
1,1,1-Trichloroethane	ug/L	0	20	24	119		
Carbon Tetrachloride	ug/L	0	20	23	113		
Benzene	ug/L	0	20	23	113	70-130	
Dibromomethane	ug/L	0	20	22	111		
1,2-Dichloropropane	ug/L	0	20	23	114		
Trichloroethene	ug/L	0	20	22	109	70-130	
Bromodichloromethane	ug/L	0	20	23	114		
cis-1,3-Dichloropropene	ug/L	0	20	20	100		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	19	93		
trans-1,3-Dichloropropylene	ug/L	0	20	20	100		
1,1,2-Trichloroethane	ug/L	0	20	22	109		
Toluene	ug/L	0	20	20	100	70-130	
2-Hexanone	ug/L	0	20	18	89		
Dibromochloromethane	ug/L	0	20	21	103		
Tetrachloroethylene (PCE)	ug/L	0	20	19	97	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	20	100		
Chlorobenzene	ug/L	0	20	20	101	70-130	
Ethylbenzene	ug/L	0	20	22	108	70-130	
Bromoform	ug/L	0	20	20	98		
Styrene	ug/L	0	20	20	102		
1,1,2,2-Tetrachloroethane	ug/L	0	20	20	101		
1,2,3-Trichloropropane	ug/L	0	20	19	93		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3098840 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	0	20	21	104		
1,2-Dichlorobenzene	ug/L	0	20	20	101	70-130	
Xylene (Total)	ug/L	0	60	64	106	70-130	
1,2-Dichloroethane-d4 (S)	%	99			95	70-128	
Toluene-d8 (S)	%	92			92	77-119	
Bromofluorobenzene (S)	%	106			106	86-123	

QC Batch: WCAj/4983 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006

METHOD BLANK: 3099302

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3099303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	111	85-115	

SAMPLE DUPLICATE: 3099304 Original: J1906033001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	470	430	10	10	

QC Batch: MSVj/3590 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/15/2019 15:00

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3100285

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	119	77-125	
Toluene-d8 (S)	%	96	80-121	
Bromofluorobenzene (S)	%	109	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3100286 3100287

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	1	0.81	0.88	81	88	70-130	8	30	
1,2-Dibromo-3-Chloropropane	ug/L	1	0.76	0.11U	76	0	70-130	200	30	
1,2-Dichloroethane-d4 (S)	%				118	122	77-125	4		
Toluene-d8 (S)	%				93	94	80-121	2		
Bromofluorobenzene (S)	%				114	112	80-129	2		

MATRIX SPIKE SAMPLE: 3100296 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	1	0.89	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	1	0.11	0	70-130	
1,2-Dichloroethane-d4 (S)	%	119			120	77-125	
Toluene-d8 (S)	%	94			92	80-121	
Bromofluorobenzene (S)	%	115			110	80-129	

QC Batch: WCAj/5009 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906176007, J1906176008, J1906176009, J1906176010

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3100491

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3100492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	105	85-115	

SAMPLE DUPLICATE: 3100493 Original: J1906268001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	54	59	9	10	

QC Batch: DGMj/3420 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3101153

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	51	103	80-120	
Thallium	ug/L	50	55	111	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101155 3101156 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.21	50	52	53	104	107	75-125	2	20	
Thallium	ug/L	0.026	50	56	50	112	100	75-125	12	20	

QC Batch: WCAg/6515 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906176001

METHOD BLANK: 3101566

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.46	93	90-110	

LABORATORY CONTROL SAMPLE: 3101568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	94	90-110	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101569 3101570 Original: G1903646005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.04	0.4	0.43	0.43	97	96	90-110	0	10	

QC Batch: WCAg/6516 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008, J1906176009,

METHOD BLANK: 3101582

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	104	90-110	

LABORATORY CONTROL SAMPLE: 3101584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101585 3101586 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	16	8	22	22	80	79	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3428 | Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A | Prepared: 05/22/2019 03:30
Associated Lab Samples: J1906176006, J1906176007

METHOD BLANK: 3102535

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.0	1.0	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Chromium	ug/L	2.0	2.0	U

LABORATORY CONTROL SAMPLE: 3102536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	190	94	80-120	
Barium	ug/L	20	19	97	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	40	99	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	73	91	80-120	
Iron	ug/L	2000	1800	92	80-120	
Sodium	mg/L	7	6.9	98	80-120	
Nickel	ug/L	120	120	97	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3102536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	60	59	99	80-120	
Selenium	ug/L	800	760	94	80-120	
Vanadium	ug/L	20	22	108	80-120	
Zinc	ug/L	1000	960	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102537 3102538 Original: J1906268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	180	180	89	90	75-125	1	20	
Arsenic	ug/L	3	200	190	190	95	95	75-125	0	20	
Barium	ug/L	130	20	150	150	83	89	75-125	1	20	
Beryllium	ug/L	1.2	10	11	11	95	95	75-125	0	20	
Cadmium	ug/L	0	20	19	19	96	95	75-125	1	20	
Cobalt	ug/L	0	40	40	40	99	99	75-125	0	20	
Chromium	ug/L	1.6	40	39	38	98	95	75-125	3	20	
Copper	ug/L	0	80	72	68	90	85	75-125	6	20	
Iron	ug/L	880	2000	2700	2700	92	91	75-125	0	20	
Sodium	mg/L	21	7	27	27	89	90	75-125	0	20	
Nickel	ug/L	1.9	120	120	120	98	98	75-125	0	20	
Lead	ug/L	3.2	60	60	61	95	97	75-125	1	20	
Selenium	ug/L	0	800	760	760	95	95	75-125	0	20	
Vanadium	ug/L	34	20	50	54	84	104	75-125	8	20	
Zinc	ug/L	8.1	1000	990	970	99	97	75-125	2	20	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176001	19134-CW-1A			EPA 300.0	WCAj/4963
J1906176002	19134-MW-23A			EPA 300.0	WCAj/4963
J1906176003	19134-MW-23B			EPA 300.0	WCAj/4963
J1906176004	19134-MW-25A			EPA 300.0	WCAj/4963
J1906176005	19134-MW-25B			EPA 300.0	WCAj/4963
J1906176006	19134-MW-30A			EPA 300.0	WCAj/4963
J1906176007	19134-MW-30B			EPA 300.0	WCAj/4963
J1906176008	19134-MW-31A			EPA 300.0	WCAj/4963
J1906176009	19134-MW-31B			EPA 300.0	WCAj/4963
J1906176010	19134-EQ-1			EPA 300.0	WCAj/4963
J1906176001	19134-CW-1A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176002	19134-MW-23A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176003	19134-MW-23B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176004	19134-MW-25A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176005	19134-MW-25B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176008	19134-MW-31A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176009	19134-MW-31B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176010	19134-EQ-1	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176001	19134-CW-1A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176002	19134-MW-23A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176003	19134-MW-23B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176004	19134-MW-25A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176005	19134-MW-25B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176006	19134-MW-30A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176007	19134-MW-30B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176008	19134-MW-31A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176009	19134-MW-31B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176010	19134-EQ-1	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176001	19134-CW-1A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176002	19134-MW-23A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176003	19134-MW-23B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176004	19134-MW-25A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176005	19134-MW-25B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176006	19134-MW-30A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176007	19134-MW-30B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176008	19134-MW-31A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176009	19134-MW-31B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176010	19134-EQ-1	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176011	19134-TripBlank-1	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176001	19134-CW-1A			SM 2540 C	WCAj/4983
J1906176002	19134-MW-23A			SM 2540 C	WCAj/4983
J1906176003	19134-MW-23B			SM 2540 C	WCAj/4983
J1906176004	19134-MW-25A			SM 2540 C	WCAj/4983
J1906176005	19134-MW-25B			SM 2540 C	WCAj/4983
J1906176006	19134-MW-30A			SM 2540 C	WCAj/4983
J1906176001	19134-CW-1A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176002	19134-MW-23A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176003	19134-MW-23B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176004	19134-MW-25A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176005	19134-MW-25B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176006	19134-MW-30A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176007	19134-MW-30B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176008	19134-MW-31A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176009	19134-MW-31B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176010	19134-EQ-1	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176011	19134-TripBlank-1	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176007	19134-MW-30B			SM 2540 C	WCAj/5009
J1906176008	19134-MW-31A			SM 2540 C	WCAj/5009
J1906176009	19134-MW-31B			SM 2540 C	WCAj/5009
J1906176010	19134-EQ-1			SM 2540 C	WCAj/5009

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176001	19134-CW-1A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176002	19134-MW-23A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176003	19134-MW-23B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176004	19134-MW-25A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176005	19134-MW-25B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176006	19134-MW-30A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176007	19134-MW-30B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176008	19134-MW-31A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176009	19134-MW-31B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176010	19134-EQ-1	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176001	19134-CW-1A			EPA 350.1	WCAg/6515
J1906176002	19134-MW-23A			EPA 350.1	WCAg/6516
J1906176003	19134-MW-23B			EPA 350.1	WCAg/6516
J1906176004	19134-MW-25A			EPA 350.1	WCAg/6516
J1906176005	19134-MW-25B			EPA 350.1	WCAg/6516
J1906176006	19134-MW-30A			EPA 350.1	WCAg/6516
J1906176007	19134-MW-30B			EPA 350.1	WCAg/6516
J1906176008	19134-MW-31A			EPA 350.1	WCAg/6516
J1906176009	19134-MW-31B			EPA 350.1	WCAg/6516
J1906176010	19134-EQ-1			EPA 350.1	WCAg/6516
J1906176006	19134-MW-30A	SW-846 3010A	DGMj/3428	SW-846 6010	ICPj/1975
J1906176007	19134-MW-30B	SW-846 3010A	DGMj/3428	SW-846 6010	ICPj/1975

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☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Alta
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.
☒ Jacksonville: 6661 Southpoint Pkwy. • Jacksonville, FL 32216
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 3230
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.

J1906176

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley + Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 1 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way, Sl. Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19134-GW-3~~A~~ 1A	04/17/19 — Sample ID should be 1A, not 3A, per Neil Stapley 5/17/19 CW	G	5/14/19	1254	GW	6		3	1	1	1							001
19134-MW-23	A	↓	↓	0936	↓	↓		↓	↓	↓	↓							002
19134-MW-23	B			1012														003
19134-MW-25	A			1313														004
19134-MW-25	B			1353														005
19134-MW-30	A			1111														006
19134-MW-30	B			1132														007
19134-MW-31	A			1136														008
19134-MW-31	B			1204	GW													009
19134-EQ-1		G	5/14/19	1330	W	6		3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/14/19	1600	FedEx	5/14/19	1600
2	FedEx	5-15-19	8:45	[illegible]	5-15-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone
Supplier of Water:
Site-Address:

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 526 S. Northlake Blvd., Ste. 101
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 3260
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, Fl
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

7.1597

* J 1 9 0 6 1 7 6 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley & Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page 2 of 2	

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP (40 mL Vials)	App I Metals+Fe,Hg,Na (500 mL Plastic)	Cl/NO3/TDS (500 mL Plastic)	NH3 (250 mL Plastic)	LABORATORY I.D. NUMBER
19134-TripBlank 1		–	–	–	DI H2O	3	3				011

BOTTLE SIZE & TYPE / ANALYSIS REQUIRED / PRESERVATION: HCL, HNO3, Ice, H2SO4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1				Fedex		
2	Fedex	5-15-19	8:45	[signature]	5-15-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: Waste Connections
Project name: J-E-D Landfill F/K/A Oak Hammock Disposal
Date/Time Rcvd: 5-15-19 8:45
Log-In request number: J1906176
Received by: BA
Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓	✓	
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

Trip Blank vials had boderline headspace
-004 metals bottle say "35A" NH3 container only has 14134
dates and times matched COC.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Mercury in the Continuing Calibration Verification (CCV) standards for analytical batch 1518, indicating increased sensitivity. The client samples (J1906176001 through -010) reported in this batch did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for Vinyl Chloride between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3098838, in comparison with 3098839. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criterion was exceeded for the following surrogate in sample J1906176003 due to matrix interferences:Bromofluorobenzene. This surrogate is not associated with any target analytes in the sample. No further corrective action was required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 350.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recovery of NH3 for J1906176002 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

J1906167001 and J1906167002 were analyzed at dilution due to high Chloride levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for Fluoride between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3096204 in comparison with3096203. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The matrix spike (MS) recoveries of Fluoride, Chloride, Nitrate and Sulfate for J1906176001 and J1906184002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

The matrix spike (MS) recovery of Nitrite for J1906184002 outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The offending analytes were not detected in the client sample. No further corrective action is required.

The matrix spike recovery ofNitrate for J1906184002 was outside control criteria due to the presence of target analytes in the sample. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.

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E. Serial Diluion:

F. Samples:

G. Other:

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Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, May 16, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906272001	19135-MW-1A	Water	5/15/2019 07:40	5/16/2019 08:45
J1906272002	19135-MW-1B	Water	5/15/2019 08:02	5/16/2019 08:45
J1906272003	19135-MW-2A	Water	5/15/2019 08:52	5/16/2019 08:45
J1906272004	19135-MW-2B	Water	5/15/2019 09:08	5/16/2019 08:45
J1906272005	19135-MW-3A	Water	5/15/2019 10:18	5/16/2019 08:45
J1906272006	19135-MW-3B	Water	5/15/2019 09:56	5/16/2019 08:45
J1906272007	19135-MW-4A	Water	5/15/2019 11:36	5/16/2019 08:45
J1906272008	19135-MW-4B	Water	5/15/2019 11:10	5/16/2019 08:45
J1906272009	19135-MW-5A	Water	5/15/2019 12:54	5/16/2019 08:45
J1906272010	19135-MW-5B	Water	5/15/2019 12:32	5/16/2019 08:45
J1906272011	19135-MW-6A	Water	5/15/2019 14:10	5/16/2019 08:45
J1906272012	19135-MW-6B	Water	5/15/2019 13:46	5/16/2019 08:45
J1906272013	19135-MW-16AR	Water	5/15/2019 14:03	5/16/2019 08:45
J1906272014	19135-MW-16BR	Water	5/15/2019 14:18	5/16/2019 08:45
J1906272015	19135-MW-17AR	Water	5/15/2019 12:26	5/16/2019 08:45
J1906272016	19135-MW-17BR	Water	5/15/2019 13:18	5/16/2019 08:45
J1906272017	19135-MW-27A	Water	5/15/2019 07:39	5/16/2019 08:45
J1906272018	19135-MW-27B	Water	5/15/2019 08:28	5/16/2019 08:45
J1906272019	19135-MW-28A	Water	5/15/2019 09:15	5/16/2019 08:45
J1906272020	19135-MW-28B	Water	5/15/2019 09:50	5/16/2019 08:45
J1906272021	19135-MW-29A	Water	5/15/2019 10:40	5/16/2019 08:45
J1906272022	19135-MW-29B	Water	5/15/2019 11:08	5/16/2019 08:45
J1906272023	19135-TripBlank-2	Water	5/15/2019 00:00	5/16/2019 08:45
J1906272024	19135-TripBlank-3	Water	5/15/2019 00:00	5/16/2019 08:45
J1906272025	19135-TripBlank-4	Water	5/15/2019 00:00	5/16/2019 08:45

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Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:33	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:33	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Chromium	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:33	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:33	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:33	J
Iron	**5800**		**ug/L**	**1**	400	100	5/28/2019 14:33	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:33	J
Nickel	**6.6**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:33	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:33	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:33	J
Sodium	**250**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:33	J
Vanadium	**15**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.14**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:56	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 10:04	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 10:04	J
Tetrachloro-m-xylene (S)	**81**		**%**	**1**	64-150		5/31/2019 10:04	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 12:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 12:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 12:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 12:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 12:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 12:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 12:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 12:05	J
Acetone	**8.3**		**ug/L**	**1**	5.0	2.1	5/28/2019 12:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 12:05	J
Benzene	**2.4**		**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 12:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 12:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 12:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 12:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 12:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 12:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 12:05	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 12:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 12:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 12:05	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 12:05	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 12:05	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 12:05	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**550**		**mg/L**	**5**	25	2.5	5/16/2019 18:12	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 18:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**12**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:44	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**980**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:37	J
Barium	**72**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J
Beryllium	**0.50**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:37	J
Cobalt	**7.8**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:37	J
Iron	**24000**		**ug/L**	**1**	400	100	5/28/2019 14:37	J
Lead	**6.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:37	J
Nickel	**9.1**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:37	J
Sodium	**250**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:37	J
Vanadium	**17**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.13**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:38	J
Thallium	**0.10**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:59	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 10:35	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 10:35	J
Tetrachloro-m-xylene (S)	**0**	**J4**	**%**	**1**	64-150		5/31/2019 10:35	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 12:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 12:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 12:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 12:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 12:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 12:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 12:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 12:35	J
Acetone	**5.7**		**ug/L**	**1**	5.0	2.1	5/28/2019 12:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 12:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 12:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 12:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 12:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 12:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 12:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 12:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 12:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 12:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 12:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 12:35	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		5/28/2019 12:35	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 12:35	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/28/2019 12:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**730**		**mg/L**	**10**	50	5.0	5/16/2019 19:16	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/16/2019 19:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.2**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:41	J
Barium	**64**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:41	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:41	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:41	J
Iron	**13000**		**ug/L**	**1**	400	100	5/28/2019 14:41	J
Lead	**6.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:41	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:41	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:41	J
Sodium	**73**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:41	J
Vanadium	**9.0**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:09	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 12:12	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 12:12	J
Tetrachloro-m-xylene (S)	**79**		**%**	**1**	64-150		5/31/2019 12:12	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 13:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 13:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 13:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 13:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 13:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 13:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 13:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 13:05	J
Acetone	**3.9**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 13:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 13:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 13:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 13:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 13:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 13:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 13:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 13:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 13:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 13:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 13:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 13:05	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 13:05	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 13:05	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 13:05	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**200**		**mg/L**	**1**	5.0	0.50	5/16/2019 19:59	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 19:59	J
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**9.4**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:15	G

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**530**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:45	J
Barium	**49**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Beryllium	**1.2**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:45	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:45	J
Cobalt	**9.1**		**ug/L**	**1**	8.0	2.0	5/28/2019 14:45	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:45	J
Iron	**24000**		**ug/L**	**1**	400	100	5/28/2019 14:45	J
Lead	**5.6**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:45	J
Nickel	**18**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:45	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:45	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:45	J
Sodium	**140**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:45	J
Vanadium	**16**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:45	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:46	J
Thallium	**0.061**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:46	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:31	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 12:45	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 12:45	J
Tetrachloro-m-xylene (S)	**92**		**%**	**1**	64-150		5/31/2019 12:45	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 16:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 16:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 16:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 16:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 16:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 16:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 16:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 16:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 16:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 16:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 16:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 16:47	J
Acetone	**4.1**	**I**	**ug/L**	**1**	5.0	2.1	5/24/2019 16:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 16:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 16:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 16:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 16:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 16:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 16:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 16:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 16:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 16:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 16:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 16:47	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 16:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 16:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 16:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 16:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 16:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 16:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 16:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 16:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 16:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 16:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 16:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 16:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 16:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 16:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 16:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 16:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 16:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		5/24/2019 16:47	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		5/24/2019 16:47	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/24/2019 16:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**330**		**mg/L**	**2**	10	1.0	5/16/2019 20:21	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/16/2019 20:21	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**5.4**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**900**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:56	J
Barium	**64**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:56	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:56	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:56	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:56	J
Iron	**5700**		**ug/L**	**1**	400	100	5/28/2019 14:56	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:56	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:56	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:56	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:56	J
Sodium	**26**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:56	J
Vanadium	**7.5**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:56	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:35	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 14:50	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 14:50	J
Tetrachloro-m-xylene (S)	**98**		**%**	**1**	64-150		5/31/2019 14:50	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 17:23	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 17:23	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 17:23	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 17:23	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 17:23	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 17:23	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 17:23	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 17:23	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 17:23	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 17:23	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 17:23	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 17:23	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 17:23	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 17:23	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 17:23	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 17:23	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 17:23	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 17:23	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 17:23	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 17:23	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 17:23	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 17:23	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 17:23	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 17:23	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 17:23	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 17:23	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 17:23	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 17:23	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 17:23	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 17:23	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 17:23	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 17:23	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 17:23	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 17:23	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 17:23	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 17:23	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 17:23	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 17:23	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 17:23	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 17:23	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 17:23	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 17:23	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		5/24/2019 17:23	
Toluene-d8 (S)	**102**		**%**	**1**	77-119		5/24/2019 17:23	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/24/2019 17:23	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**30**		**mg/L**	**5**	25	2.5	5/16/2019 22:09	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 22:09	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.3**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:00	J
Barium	**36**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J
Beryllium	**1.8**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:00	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:00	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:00	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:00	J
Iron	**1200**		**ug/L**	**1**	400	100	5/28/2019 15:00	J
Lead	**3.2**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:00	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:00	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:00	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:00	J
Sodium	**94**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:00	J
Vanadium	**13**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:00	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:55	J
Thallium	**0.077**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:38	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 14:19	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 14:19	J
Tetrachloro-m-xylene (S)	**96**		**%**	**1**	64-150		5/31/2019 14:19	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 13:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 13:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 13:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 13:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 13:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 13:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 13:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 13:35	J
Acetone	**3.6**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 13:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 13:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 13:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 13:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 13:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 13:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 13:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 13:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 13:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 13:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 13:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 13:35	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 13:35	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 13:35	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 13:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**160**		**mg/L**	**5**	25	2.5	5/16/2019 21:47	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 21:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.6**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:04	J
Barium	**55**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:04	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:04	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:04	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:04	J
Iron	**4600**		**ug/L**	**1**	400	100	5/28/2019 15:04	J
Lead	**7.8**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:04	J
Nickel	**8.2**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 15:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:04	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:04	J
Sodium	**39**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:04	J
Vanadium	**5.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:58	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:58	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:41	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 17:25	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 17:25	J
Tetrachloro-m-xylene (S)	**71**		**%**	**1**	64-150		5/31/2019 17:25	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 14:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 14:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 14:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 14:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 14:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 14:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 14:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 14:05	J
Acetone	**2.2**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 14:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 14:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 14:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 14:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 14:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 14:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 14:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 14:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 14:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 14:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 14:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 14:05	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		5/28/2019 14:05	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 14:05	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 14:05	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**63**		**mg/L**	**5**	25	2.5	5/17/2019 00:18	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 00:18	J
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**8.6**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:20	G

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**700**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:07	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:07	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:07	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:07	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:07	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/28/2019 15:07	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:07	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:07	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:07	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:07	J
Sodium	**92**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:07	J
Vanadium	**22**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:07	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.20**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:44	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 16:25	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 16:25	J
Tetrachloro-m-xylene (S)	**89**		**%**	**1**	64-150		5/31/2019 16:25	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 14:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 14:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 14:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 14:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 14:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 14:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 14:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 14:35	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 14:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 14:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 14:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 14:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 14:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 14:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 14:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 14:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 14:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 14:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 14:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		5/28/2019 14:35	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 14:35	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 14:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**160**		**mg/L**	**5**	25	2.5	5/16/2019 23:56	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 23:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:21	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:11	J
Barium	**2.9**	**I**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:11	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Chromium	**2.5**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:11	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:11	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:11	J
Iron	**170**	**I**	**ug/L**	**1**	400	100	5/28/2019 15:11	J
Lead	**14**		**ug/L**	**1**	12	3.0	5/28/2019 15:11	J
Nickel	**11**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 15:11	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:11	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:11	J
Sodium	**11**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:11	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:11	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:47	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 00:36	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 00:36	J
Tetrachloro-m-xylene (S)	**96**		**%**	**1**	64-150		5/31/2019 00:36	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 15:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 15:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 15:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 15:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 15:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 15:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 15:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 15:04	J
Acetone	**4.2**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 15:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 15:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 15:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 15:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 15:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 15:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
Chloromethane	**2.5**		**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 15:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 15:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 15:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 15:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 15:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 15:04	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 15:04	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/28/2019 15:04	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/28/2019 15:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	5/17/2019 01:24	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 01:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.8**		**mg/L**	**25**	0.25	0.20	5/20/2019 16:22	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**230**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:15	J
Barium	**50**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:15	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:15	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:15	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:15	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/28/2019 15:15	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:15	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:15	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:15	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:15	J
Sodium	**86**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:15	J
Vanadium	**8.5**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:15	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:51	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 00:06	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 00:06	J
Tetrachloro-m-xylene (S)	**70**		**%**	**1**	64-150		5/31/2019 00:06	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 20:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 20:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 20:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 20:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 20:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 20:41	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 20:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 20:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 20:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 20:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 20:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 20:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 20:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 20:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 20:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 20:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 20:41	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 20:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 20:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 20:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 20:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 20:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 20:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 20:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 20:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 20:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 20:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 20:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 20:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 20:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 20:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 20:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 20:41	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 20:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 20:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 20:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 20:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 20:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 20:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 20:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 20:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 20:41	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		5/24/2019 20:41	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		5/24/2019 20:41	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/24/2019 20:41	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**140**		**mg/L**	**5**	25	2.5	5/17/2019 07:51	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 07:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**11**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:23	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:18	J
Barium	**3.9**	**I**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:18	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:18	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:18	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:18	J
Iron	**16000**		**ug/L**	**1**	400	100	5/28/2019 15:18	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:18	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:18	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:18	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:18	J
Sodium	**22**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:18	J
Vanadium	**4.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:18	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:48	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:48	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:54	J
SEMIVOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	5/22/2019 12:32	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 03:10	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 03:10	J
Tetrachloro-m-xylene (S)	**110**		**%**	**1**	64-150		5/31/2019 03:10	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 21:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 21:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 21:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 21:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 21:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 21:11	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 21:11	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 21:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 21:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 21:11	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 21:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 21:11	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 21:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 21:11	J
Benzene	**3.0**		**ug/L**	**1**	1.0	0.16	5/24/2019 21:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 21:11	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 21:11	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 21:11	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 21:11	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 21:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 21:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 21:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 21:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 21:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 21:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 21:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:11	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 21:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 21:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 21:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 21:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 21:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:11	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 21:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 21:11	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		5/24/2019 21:11	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/24/2019 21:11	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/24/2019 21:11	

VOLATILES

Analysis Desc: IC,E300.0,Water Analytical Method: EPA 300.0

Chloride	**54**		**mg/L**	**1**	5.0	0.50	5/17/2019 03:33	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 03:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**5.0**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:24	G

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:22	J
Barium	**47**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:22	J
Iron	**1300**		**ug/L**	**1**	400	100	5/28/2019 15:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:22	J
Sodium	**12**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:22	J
Vanadium	**2.7**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:52	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:52	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:57	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 01:36	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 01:36	J
Tetrachloro-m-xylene (S)	**106**		**%**	**1**	64-150		5/31/2019 01:36	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 21:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 21:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 21:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 21:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 21:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 21:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 21:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 21:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 21:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 21:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 21:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 21:47	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 21:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 21:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 21:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 21:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 21:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 21:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 21:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 21:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 21:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 21:47	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 21:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 21:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 21:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 21:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 21:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 21:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 21:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 21:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 21:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 21:47	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		5/24/2019 21:47	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		5/24/2019 21:47	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/24/2019 21:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**38**		**mg/L**	**1**	5.0	0.50	5/17/2019 02:29	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 02:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.21**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:05	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**85**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:26	J
Barium	**51**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:26	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Chromium	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:26	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:26	J
Iron	**890**		**ug/L**	**1**	400	100	5/28/2019 15:26	J
Lead	**3.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:26	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:26	J
Sodium	**210**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:26	J
Vanadium	**18**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.27**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:56	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:56	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:00	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 02:06	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 02:06	J
Tetrachloro-m-xylene (S)	**117**		**%**	**1**	64-150		5/31/2019 02:06	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 15:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 15:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 15:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 15:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 15:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 15:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 15:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 15:34	J
Acetone	**4.9**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 15:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 15:34	J
Benzene	**1.6**		**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 15:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 15:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 15:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 15:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 15:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 15:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 15:34	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 15:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 15:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 15:34	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		5/28/2019 15:34	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 15:34	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 15:34	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**460**		**mg/L**	**5**	25	2.5	5/17/2019 03:11	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 03:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**10**	0.10	0.080	5/20/2019 15:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:29	J
Barium	**31**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:29	J
Iron	**1800**		**ug/L**	**1**	400	100	5/28/2019 15:29	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:29	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:29	J
Sodium	**8.1**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:29	J
Vanadium	**1.6**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:29	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:00	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:00	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:10	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 03:43	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 03:43	J
Tetrachloro-m-xylene (S)	**107**		**%**	**1**	64-150		5/31/2019 03:43	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 16:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 16:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 16:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 16:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 16:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 16:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 16:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 16:04	J
Acetone	**2.5**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 16:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 16:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 16:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 16:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 16:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 16:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 16:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 16:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 16:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 16:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 16:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 16:04	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 16:04	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 16:04	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		5/28/2019 16:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**28**		**mg/L**	**1**	5.0	0.50	5/17/2019 02:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 02:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.29**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**73**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:27	J
Barium	**65**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:27	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:27	J
Cadmium	**1.7**	**I**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:27	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:27	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:27	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:27	J
Iron	**640**		**ug/L**	**1**	400	100	5/24/2019 12:27	J
Lead	**3.7**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 12:27	J
Nickel	**9.2**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 12:27	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:27	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:27	J
Sodium	**75**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:27	J
Vanadium	**7.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:18	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:27	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.35**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:04	J
Thallium	**0.069**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:04	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:13	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 17:56	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 17:56	J
Tetrachloro-m-xylene (S)	**93**		**%**	**1**	64-150		5/31/2019 17:56	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 16:33	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:33	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 16:33	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 16:33	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 16:33	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 16:33	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:33	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 16:33	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 16:33	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 16:33	J
Acetone	**5.2**		**ug/L**	**1**	5.0	2.1	5/28/2019 16:33	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 16:33	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 16:33	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 16:33	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 16:33	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:33	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 16:33	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:33	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:33	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:33	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 16:33	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:33	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 16:33	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:33	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:33	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 16:33	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 16:33	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 16:33	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:33	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 16:33	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 16:33	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 16:33	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 16:33	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**170**		**mg/L**	**2**	10	1.0	5/17/2019 08:12	J
Nitrate (as N)	**7.1**		**mg/L**	**2**	1.0	0.10	5/17/2019 08:12	J
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**2.3**		**mg/L**	**5**	0.050	0.040	5/20/2019 16:34	G

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**680**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:52	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:52	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:52	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:52	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:52	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:52	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:52	J
Iron	**430**		**ug/L**	**1**	400	100	5/24/2019 12:52	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:52	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:52	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:52	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:52	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:52	J
Vanadium	**3.0**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:21	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:52	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:19	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:19	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:17	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 01:06	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 01:06	J
Tetrachloro-m-xylene (S)	**90**		**%**	**1**	64-150		5/31/2019 01:06	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 17:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 17:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 17:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 17:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 17:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 17:03	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 17:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 17:03	J
Acetone	**6.1**		**ug/L**	**1**	5.0	2.1	5/28/2019 17:03	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 17:03	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 17:03	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 17:03	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 17:03	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:03	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 17:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 17:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 17:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 17:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 17:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 17:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 17:03	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 17:03	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 17:03	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/28/2019 17:03	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/17/2019 01:46	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	5/17/2019 01:46	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.24**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:35	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**82**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:55	J
Barium	**12**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:55	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:55	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:55	J
Chromium	**3.6**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:55	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:55	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:55	J
Iron	**1100**		**ug/L**	**1**	400	100	5/24/2019 12:55	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:55	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:55	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:55	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:55	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:55	J
Vanadium	**12**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:55	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:23	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:23	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:20	J
SEMIVOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	5/21/2019 15:05	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 09:31	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 09:31	J
Tetrachloro-m-xylene (S)	**11**	**J4**	**%**	**1**	64-150		5/31/2019 09:31	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 17:33	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:33	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 17:33	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 17:33	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 17:33	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 17:33	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:33	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 17:33	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 17:33	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 17:33	J
Acetone	**5.3**		**ug/L**	**1**	5.0	2.1	5/28/2019 17:33	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 17:33	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 17:33	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 17:33	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 17:33	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:33	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 17:33	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:33	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:33	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:33	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 17:33	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:33	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 17:33	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:33	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 17:33	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 17:33	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 17:33	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:33	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 17:33	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 17:33	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 17:33	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 17:33	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water — Analytical Method: EPA 300.0

Chloride	**34**		**mg/L**	**1**	5.0	0.50	5/16/2019 17:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 17:50	J

Analysis Desc: Ammonia,E350.1,Water — Analytical Method: EPA 350.1

Ammonia (N)	**5.5**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:36	G

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab

METALS

Analysis Desc: SW846 6010B Analysis,Water — Preparation Method: SW-846 3010A; Analytical Method: SW-846 6010

Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:59	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:59	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:59	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:59	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:59	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:59	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:59	J
Iron	**390**	**I**	**ug/L**	**1**	400	100	5/24/2019 12:59	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:59	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:59	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:59	J
Sodium	**24**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:59	J
Vanadium	**3.7**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:40	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:59	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:28	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:28	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:23	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 11:41	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 11:41	J
Tetrachloro-m-xylene (S)	**89**		**%**	**1**	64-150		5/31/2019 11:41	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 18:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 18:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 18:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 18:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 18:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 18:02	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 18:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 18:02	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/28/2019 18:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 18:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 18:02	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 18:02	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 18:02	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:02	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 18:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 18:02	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 18:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:02	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 18:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 18:02	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 18:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 18:02	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 18:02	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 18:02	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/28/2019 18:02	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**44**		**mg/L**	**1**	5.0	0.50	5/16/2019 19:38	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 19:38	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:37	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**420**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:02	J
Barium	**35**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:02	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:02	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:02	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:02	J
Iron	**2100**		**ug/L**	**1**	400	100	5/24/2019 13:02	J
Lead	**5.5**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 13:02	J
Nickel	**8.3**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:02	J
Sodium	**43**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:02	J
Vanadium	**4.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:31	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:31	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:26	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 13:15	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 13:15	J
Tetrachloro-m-xylene (S)	**112**		**%**	**1**	64-150		5/31/2019 13:15	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 18:32	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:32	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 18:32	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 18:32	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 18:32	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 18:32	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:32	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 18:32	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 18:32	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 18:32	J
Acetone	**4.3**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 18:32	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 18:32	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 18:32	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 18:32	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 18:32	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:32	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 18:32	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:32	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:32	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:32	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 18:32	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:32	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 18:32	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:32	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:32	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 18:32	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 18:32	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 18:32	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:32	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 18:32	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 18:32	
Toluene-d8 (S)	**94**		**%**	**1**	77-119		5/28/2019 18:32	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/28/2019 18:32	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**180**		**mg/L**	**1**	5.0	0.50	5/16/2019 20:43	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 20:43	J
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**6.3**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	**Analytical Method: SM 2540 C**							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:06	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:06	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:06	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:06	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:06	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:06	J
Copper	**4.7**	**I**	**ug/L**	**1**	16	4.0	5/24/2019 13:06	J
Iron	**1200**		**ug/L**	**1**	400	100	5/24/2019 13:06	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 13:06	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:06	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:06	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:06	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:06	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:58	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:06	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:35	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:35	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:36	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 13:49	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 13:49	J
Tetrachloro-m-xylene (S)	**77**		**%**	**1**	64-150		5/31/2019 13:49	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 19:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 19:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 19:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 19:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 19:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 19:02	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 19:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 19:02	J
Acetone	**4.3**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 19:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 19:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 19:02	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 19:02	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 19:02	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:02	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 19:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
Chloromethane	**3.2**		**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 19:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 19:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:02	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 19:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 19:02	J
Vinyl Chloride	**0.20**	**U,J4**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 19:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 19:02	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 19:02	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 19:02	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 19:02	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**48**	**J4**	**mg/L**	**1**	5.0	0.50	5/16/2019 21:04	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 21:04	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.22**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:09	J
Barium	**34**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:09	J
Iron	**2000**		**ug/L**	**1**	400	100	5/24/2019 13:09	J
Lead	**4.4**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 13:09	J
Nickel	**8.9**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:09	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:09	J
Vanadium	**14**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:02	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.28**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:39	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:39	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:58	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 15:23	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 15:23	J
Tetrachloro-m-xylene (S)	**0**	**J4**	**%**	**1**	64-150		5/31/2019 15:23	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 19:31	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:31	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 19:31	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 19:31	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 19:31	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 19:31	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:31	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 19:31	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 19:31	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 19:31	J
Acetone	**3.8**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 19:31	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 19:31	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 19:31	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 19:31	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 19:31	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:31	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 19:31	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:31	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:31	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:31	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 19:31	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:31	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 19:31	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:31	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:31	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 19:31	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 19:31	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 19:31	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:31	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 19:31	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 19:31	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 19:31	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 19:31	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**22**		**mg/L**	**1**	5.0	0.50	5/16/2019 22:30	J
Nitrate (as N)	**1.4**		**mg/L**	**1**	0.50	0.050	5/16/2019 22:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.12**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**150**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:13	J
Barium	**71**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:13	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:13	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:13	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:13	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:13	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:13	J
Iron	**2000**		**ug/L**	**1**	400	100	5/24/2019 13:13	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 13:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:13	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:13	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:13	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:13	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:06	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:13	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:44	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:44	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:02	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 15:54	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 15:54	J
Tetrachloro-m-xylene (S)	**106**		**%**	**1**	64-150		5/31/2019 15:54	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 20:01	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 20:01	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 20:01	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 20:01	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 20:01	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:01	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 20:01	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 20:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 20:01	J
Acetone	**3.5**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 20:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 20:01	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 20:01	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 20:01	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 20:01	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:01	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 20:01	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:01	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:01	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
Chloromethane	**2.3**		**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:01	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 20:01	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 20:01	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:01	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:01	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 20:01	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 20:01	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 20:01	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:01	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 20:01	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 20:01	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 20:01	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 20:01	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**27**		**mg/L**	**1**	5.0	0.50	5/16/2019 22:52	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 22:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.14**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:27	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 07:54	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 07:54	J
Tetrachloro-m-xylene (S)	**110**		**%**	**1**	64-150		5/31/2019 07:54	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 20:30	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 20:30	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 20:30	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 20:30	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 20:30	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:30	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 20:30	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 20:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 20:30	J
Acetone	**2.7**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 20:30	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 20:30	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 20:30	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 20:30	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 20:30	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:30	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 20:30	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:30	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:30	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:30	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 20:30	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 20:30	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:30	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:30	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 20:30	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 20:30	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 20:30	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:30	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 20:30	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 20:30	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 20:30	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 20:30	

Lab ID: **J1906272024** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-3** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 08:24	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 08:24	J
Tetrachloro-m-xylene (S)	**111**		**%**	**1**	64-150		5/31/2019 08:24	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 21:00	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:00	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 21:00	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 21:00	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 21:00	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 21:00	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:00	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 21:00	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 21:00	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 21:00	J
Acetone	**3.8**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 21:00	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 21:00	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272024** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-3** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 21:00	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 21:00	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 21:00	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:00	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 21:00	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:00	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:00	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:00	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 21:00	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:00	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 21:00	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:00	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:00	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 21:00	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 21:00	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 21:00	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:00	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 21:00	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 21:00	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 21:00	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 21:00	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272025** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-4** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 08:58	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 08:58	J
Tetrachloro-m-xylene (S)	**98**		**%**	**1**	64-150		5/31/2019 08:58	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 21:30	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 21:30	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 21:30	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 21:30	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 21:30	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:30	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 21:30	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 21:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 21:30	J
Acetone	**5.6**		**ug/L**	**1**	5.0	2.1	5/28/2019 21:30	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 21:30	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 21:30	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 21:30	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 21:30	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:30	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 21:30	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:30	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:30	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:30	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 21:30	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272025** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-4** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 21:30	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:30	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:30	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 21:30	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 21:30	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 21:30	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:30	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 21:30	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 21:30	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 21:30	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/28/2019 21:30	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4976 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906272001, J1906272002, J1906272017, J1906272018

METHOD BLANK: 3097919

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3097920 3097921

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	109	109	90-110	0	10	
Nitrate (as N)	mg/L	2	1.9	1.8	93	92	90-110	1	10	

MATRIX SPIKE SAMPLE: 3098615 Original: J1906270001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	13	20	34	103	90-110	
Nitrate (as N)	mg/L	0.05	2	1.8	89	90-110	

QC Batch: WCAj/4981 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010,

METHOD BLANK: 3098625

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3098626 3098627

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	110	90-110	0	10	
Nitrate (as N)	mg/L	2	1.8	1.8	92	91	90-110	1	10	

MATRIX SPIKE SAMPLE: 3098628 Original: J1906272016

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	18	20	38	96	90-110	
Nitrate (as N)	mg/L	0.009	2	1.8	88	90-110	

MATRIX SPIKE SAMPLE: 3098629 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	48	20	65	86	90-110	
Nitrate (as N)	mg/L	0	2	1.8	91	90-110	

QC Batch: WCAj/5009 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004

METHOD BLANK: 3100491

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3100492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	105	85-115	

SAMPLE DUPLICATE: 3100493 Original: J1906268001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	54	59	9	10	

QC Batch: DGMj/3421 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3101158

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	53	105	80-120	
Thallium	ug/L	50	49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.023	50	51	52	103	104	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Thallium	ug/L	0.019	50	47	48	95	97	75-125	2	20	

QC Batch: DGMj/3422 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30
Associated Lab Samples: J1906272010, J1906272011, J1906272012, J1906272013, J1906272014, J1906272015, J1906272016, J1906272017,

METHOD BLANK: 3101162

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	56	112	80-120	
Thallium	ug/L	50	52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101164 3101165 Original: J1906272010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.18	50	54	54	107	107	75-125	0	20	
Thallium	ug/L	0.038	50	53	52	106	105	75-125	1	20	

QC Batch: WCAg/6516 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272001

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3101582

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	104	90-110	

LABORATORY CONTROL SAMPLE: 3101584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101585 3101586 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	16	8	22	22	80	79	90-110	0	10	

QC Batch: WCAg/6517 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009,

METHOD BLANK: 3101591

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.53	106	90-110	

LABORATORY CONTROL SAMPLE: 3101593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101594 3101595 Original: J1906272002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	8.2	8	16	16	100	98	90-110	1	10	

QC Batch: WCAg/6518 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906272012, J1906272013, J1906272014, J1906272015, J1906272016, J1906272017, J1906272018, J1906272019,

METHOD BLANK: 3101601

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.53	106	90-110	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.20	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101604 3101605 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.21	0.4	0.64	0.63	107	104	90-110	1	10	

QC Batch: WCAg/6519 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272022

METHOD BLANK: 3101606

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.54	108	90-110	

LABORATORY CONTROL SAMPLE: 3101608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	104	90-110	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101609 3101610 Original: J1906272022

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.14	0.4	0.55	0.54	103	100	90-110	3	10	

QC Batch: WCAj/5014 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010, J1906272012, J1906272015,

METHOD BLANK: 3102077

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3102078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	340	115	85-115	

SAMPLE DUPLICATE: 3102080 Original: J1906272017

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	120	110	10	10	

QC Batch: WCAj/5025 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906272011, J1906272013, J1906272014

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103402

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3103403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	112	85-115	

SAMPLE DUPLICATE: 3103404 Original: J1906272011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	170	5	10	

QC Batch: DGMj/3436 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Vanadium	ug/L	1.2	1.0	I
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3103530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	97	80-120	
Arsenic	ug/L	200	200	100	80-120	
Barium	ug/L	20	20	102	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	101	80-120	
Cobalt	ug/L	40	41	103	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.5	108	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	800	100	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	190	99	97	75-125	2	20	
Arsenic	ug/L	2.8	200	200	200	101	102	75-125	1	20	
Barium	ug/L	14	20	35	34	106	104	75-125	1	20	
Beryllium	ug/L	0.1	10	10	9.9	101	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	103	101	75-125	2	20	
Cobalt	ug/L	0.3	40	42	42	106	104	75-125	2	20	
Chromium	ug/L	0	40	39	39	98	99	75-125	1	20	
Copper	ug/L	0	80	77	76	97	95	75-125	2	20	
Iron	ug/L	1500	2000	3500	3500	100	98	75-125	1	20	
Sodium	mg/L	7.6	7	15	15	111	108	75-125	1	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nickel	ug/L	2.4	120	130	130	112	105	75-125	6	20	
Lead	ug/L	2.5	60	66	64	110	107	75-125	2	20	
Selenium	ug/L	0	800	820	810	103	101	75-125	2	20	
Vanadium	ug/L	1.1	20	22	22	107	103	75-125	4	20	
Zinc	ug/L	3.6	1000	1000	1000	104	102	75-125	2	20	

QC Batch: DGMj/3437 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906272015, J1906272016, J1906272017, J1906272018, J1906272019, J1906272020, J1906272021, J1906272022

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	2.2	1.0	I

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3103535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	180	89	80-120	
Barium	ug/L	20	19	94	80-120	
Beryllium	ug/L	10	8.7	87	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	38	94	80-120	
Chromium	ug/L	40	36	90	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1800	89	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	110	94	80-120	
Lead	ug/L	60	57	95	80-120	
Selenium	ug/L	800	730	91	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	910	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103536 3103537 Original: J1906272015

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	93	95	75-125	1	20	
Arsenic	ug/L	0	200	190	190	94	95	75-125	1	20	
Barium	ug/L	65	20	82	84	89	97	75-125	2	20	
Beryllium	ug/L	0	10	9.3	9.5	93	95	75-125	2	20	
Cadmium	ug/L	1.7	20	20	21	93	95	75-125	1	20	
Cobalt	ug/L	0.7	40	38	38	94	95	75-125	1	20	
Chromium	ug/L	1	40	38	40	94	100	75-125	6	20	
Copper	ug/L	2	80	72	75	90	94	75-125	4	20	
Iron	ug/L	640	2000	2500	2500	93	95	75-125	2	20	
Sodium	mg/L	75	7	80	82	79	102	75-125	2	20	
Nickel	ug/L	9.2	120	120	120	93	95	75-125	2	20	
Lead	ug/L	3.7	60	58	57	90	89	75-125	1	20	
Selenium	ug/L	0	800	750	760	94	95	75-125	1	20	
Vanadium	ug/L	7.7	20	25	25	86	88	75-125	2	20	
Zinc	ug/L	10	1000	950	960	95	96	75-125	2	20	

QC Batch: DGMj/3454 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Associated Lab Samples: J1906272001, J1906272002

METHOD BLANK: 3106506

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106508 3106509 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.013	2	1.4	1.4	69	71	80-120	3	20	

QC Batch: DGMj/3455 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45

Associated Lab Samples: J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010,

METHOD BLANK: 3106516

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3106517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106518 3106519 Original: J1906272003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	2.0	2.1	100	105	80-120	5	20	

QC Batch: DGMj/3456 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45
Associated Lab Samples: J1906272020, J1906272021, J1906272022

METHOD BLANK: 3106520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	2.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106522 3106523 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.0037	2	2.1	2.1	104	105	80-120	1	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch:	MSVj/3625	Analysis Method:	SW-846 8260B
QC Batch Method:	SW-846 5030B	Prepared:	05/24/2019 10:13

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3107510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3107510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	106	70-128	
Toluene-d8 (S)	%	106	77-119	
Bromofluorobenzene (S)	%	112	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3107511 3107512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	18	16	90	79		14		
Vinyl Chloride	ug/L	20	20	16	99	81	70-130	19	20	
Bromomethane	ug/L	20	20	10	102	52		65		
Chloroethane	ug/L	20	20	17	98	86		14		
Trichlorofluoromethane	ug/L	20	19	17	95	87		10		
Acetone	ug/L	20	14	16	71	79		10		
1,1-Dichloroethylene	ug/L	20	20	18	100	89	70-130	12	20	
Iodomethane (Methyl Iodide)	ug/L	20	15	13	73	63		14		
Acrylonitrile	ug/L	20	16	15	78	75		3		
Methylene Chloride	ug/L	20	20	21	99	103		4		
Carbon Disulfide	ug/L	20	19	18	96	88		8		
trans-1,2-Dichloroethylene	ug/L	20	19	17	97	87		11		
1,1-Dichloroethane	ug/L	20	20	17	98	85		14		
Vinyl Acetate	ug/L	20	17	31	83	155		61		
2-Butanone (MEK)	ug/L	20	15	18	74	88		17		
cis-1,2-Dichloroethylene	ug/L	20	19	17	97	87	70-130	11	20	
Bromochloromethane	ug/L	20	21	19	107	97		10		
Chloroform	ug/L	20	20	17	98	87	70-130	12	20	
1,2-Dichloroethane	ug/L	20	20	17	98	85		14		
1,1,1-Trichloroethane	ug/L	20	19	16	95	82		14		
Carbon Tetrachloride	ug/L	20	20	18	99	88		12		
Benzene	ug/L	20	19	18	97	89	70-130	9	20	
Dibromomethane	ug/L	20	18	16	89	81		10		
1,2-Dichloropropane	ug/L	20	20	18	98	89		10		
Trichloroethene	ug/L	20	19	16	94	81	70-130	14	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3107511 3107512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	20	20	18	98	89		10		
cis-1,3-Dichloropropene	ug/L	20	18	15	89	77		14		
4-Methyl-2-pentanone (MIBK)	ug/L	20	14	16	72	78		9		
trans-1,3-Dichloropropylene	ug/L	20	17	15	85	77		11		
1,1,2-Trichloroethane	ug/L	20	18	16	90	79		13		
Toluene	ug/L	20	19	18	97	88	70-130	10	20	
2-Hexanone	ug/L	20	15	18	74	89		18		
Dibromochloromethane	ug/L	20	19	18	95	89		7		
Tetrachloroethylene (PCE)	ug/L	20	19	17	95	86	70-130	10	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	18	103	89		15		
Chlorobenzene	ug/L	20	20	18	98	91	70-130	8	20	
Ethylbenzene	ug/L	20	21	18	104	92	70-130	13	20	
Bromoform	ug/L	20	17	17	85	83		3		
Styrene	ug/L	20	19	17	96	86		11		
1,1,2,2-Tetrachloroethane	ug/L	20	18	17	88	86		2		
1,2,3-Trichloropropane	ug/L	20	16	16	81	80		2		
1,4-Dichlorobenzene	ug/L	20	21	19	104	95		8		
1,2-Dichlorobenzene	ug/L	20	22	20	108	99	70-130	9	20	
Xylene (Total)	ug/L	60	62	56	104	93	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%				112	114	70-128	2		
Toluene-d8 (S)	%				105	105	77-119	0		
Bromofluorobenzene (S)	%				105	107	86-123	2		

MATRIX SPIKE SAMPLE: 3107513 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	12	59		
Vinyl Chloride	ug/L	0	20	15	73	70-130	
Bromomethane	ug/L	0	20	6.2	31		
Chloroethane	ug/L	0	20	16	78		
Trichlorofluoromethane	ug/L	0	20	19	93		
Acetone	ug/L	0	20	19	94		
1,1-Dichloroethylene	ug/L	0	20	20	99	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	8.7	43		
Acrylonitrile	ug/L	0	20	20	98		
Methylene Chloride	ug/L	0	20	20	98		
Carbon Disulfide	ug/L	0	20	20	99		
trans-1,2-Dichloroethylene	ug/L	0	20	20	98		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3107513 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	0	20	22	109		
Vinyl Acetate	ug/L	0	20	21	107		
2-Butanone (MEK)	ug/L	0	20	20	102		
cis-1,2-Dichloroethylene	ug/L	0	20	21	105	70-130	
Bromochloromethane	ug/L	0	20	25	123		
Chloroform	ug/L	0	20	21	106	70-130	
1,2-Dichloroethane	ug/L	0	20	21	105		
1,1,1-Trichloroethane	ug/L	0	20	20	100		
Carbon Tetrachloride	ug/L	0	20	21	105		
Benzene	ug/L	0	20	22	111	70-130	
Dibromomethane	ug/L	0	20	22	109		
1,2-Dichloropropane	ug/L	0	20	22	111		
Trichloroethene	ug/L	0	20	20	102	70-130	
Bromodichloromethane	ug/L	0	20	20	101		
cis-1,3-Dichloropropene	ug/L	0	20	16	78		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	19	97		
trans-1,3-Dichloropropylene	ug/L	0	20	16	80		
1,1,2-Trichloroethane	ug/L	0	20	21	107		
Toluene	ug/L	0	20	22	109	70-130	
2-Hexanone	ug/L	0	20	19	97		
Dibromochloromethane	ug/L	0	20	21	104		
Tetrachloroethylene (PCE)	ug/L	0	20	20	99	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	22	109		
Chlorobenzene	ug/L	0	20	22	109	70-130	
Ethylbenzene	ug/L	0	20	21	107	70-130	
Bromoform	ug/L	0	20	19	95		
Styrene	ug/L	0	20	19	93		
1,1,2,2-Tetrachloroethane	ug/L	0	20	22	108		
1,2,3-Trichloropropane	ug/L	0	20	18	90		
1,4-Dichlorobenzene	ug/L	0	20	20	100		
1,2-Dichlorobenzene	ug/L	0	20	21	106	70-130	
Xylene (Total)	ug/L	0	60	64	106	70-130	
1,2-Dichloroethane-d4 (S)	%	110			88	70-128	
Toluene-d8 (S)	%	106			98	77-119	
Bromofluorobenzene (S)	%	112			99	86-123	

QC Batch: MSVj/3631 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/28/2019 11:06

Associated Lab Samples: J1906272013, J1906272014, J1906272015, J1906272016, J1906272017, J1906272018, J1906272019, J1906272020,

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	88	70-128	
Toluene-d8 (S)	%	98	77-119	
Bromofluorobenzene (S)	%	107	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3108513 3108514

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	17	9.9	86	49		54		
Vinyl Chloride	ug/L	20	18	12	91	58	70-130	45	20	
Bromomethane	ug/L	20	19	3.6	95	18		135		
Chloroethane	ug/L	20	17	14	83	69		19		
Trichlorofluoromethane	ug/L	20	20	16	100	82		19		
Acetone	ug/L	20	17	15	85	76		12		
1,1-Dichloroethylene	ug/L	20	22	18	108	88	70-130	21	20	
Iodomethane (Methyl Iodide)	ug/L	20	30	3.4	148	17		158		
Acrylonitrile	ug/L	20	21	17	104	87		18		
Methylene Chloride	ug/L	20	25	20	125	98		24		
Carbon Disulfide	ug/L	20	23	17	113	87		26		
trans-1,2-Dichloroethylene	ug/L	20	22	17	108	84		25		
1,1-Dichloroethane	ug/L	20	22	18	111	89		22		
Vinyl Acetate	ug/L	20	26	29	128	144		12		
2-Butanone (MEK)	ug/L	20	23	21	114	104		9		
cis-1,2-Dichloroethylene	ug/L	20	23	18	117	92	70-130	23	20	
Bromochloromethane	ug/L	20	24	20	121	102		17		
Chloroform	ug/L	20	22	17	108	85	70-130	23	20	
1,2-Dichloroethane	ug/L	20	21	17	106	84		23		
1,1,1-Trichloroethane	ug/L	20	21	16	103	81		23		
Carbon Tetrachloride	ug/L	20	22	17	111	87		24		
Benzene	ug/L	20	23	18	115	92	70-130	23	20	
Dibromomethane	ug/L	20	23	18	115	89		26		
1,2-Dichloropropane	ug/L	20	23	18	113	91		21		
Trichloroethene	ug/L	20	22	17	108	84	70-130	25	20	
Bromodichloromethane	ug/L	20	21	16	106	81		26		
cis-1,3-Dichloropropene	ug/L	20	25	18	124	92		30		
4-Methyl-2-pentanone (MIBK)	ug/L	20	21	18	104	92		13		
trans-1,3-Dichloropropylene	ug/L	20	25	18	125	92		30		
1,1,2-Trichloroethane	ug/L	20	22	17	108	85		24		
Toluene	ug/L	20	22	18	110	89	70-130	21	20	
2-Hexanone	ug/L	20	21	18	104	91		13		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3108513 3108514

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/L	20	21	16	105	81		25		
Tetrachloroethylene (PCE)	ug/L	20	22	18	111	89	70-130	22	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	18	111	89		22		
Chlorobenzene	ug/L	20	22	18	112	89	70-130	22	20	
Ethylbenzene	ug/L	20	22	18	110	88	70-130	22	20	
Bromoform	ug/L	20	19	15	96	76		23		
Styrene	ug/L	20	21	17	105	87		19		
1,1,2,2-Tetrachloroethane	ug/L	20	22	17	108	86		22		
1,2,3-Trichloropropane	ug/L	20	22	17	108	85		23		
1,4-Dichlorobenzene	ug/L	20	23	17	115	86		29		
1,2-Dichlorobenzene	ug/L	20	23	18	113	91	70-130	22	20	
Xylene (Total)	ug/L	60	66	53	111	89	70-130	22	20	
1,2-Dichloroethane-d4 (S)	%				87	86	70-128	1		
Toluene-d8 (S)	%				97	98	77-119	1		
Bromofluorobenzene (S)	%				97	100	86-123	3		

MATRIX SPIKE SAMPLE: 3108515 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	3.2	20	10	34		
Vinyl Chloride	ug/L	0	20	12	58	70-130	
Bromomethane	ug/L	0	20	5.8	29		
Chloroethane	ug/L	0	20	12	59		
Trichlorofluoromethane	ug/L	0	20	14	72		
Acetone	ug/L	4.3	20	15	51		
1,1-Dichloroethylene	ug/L	0	20	15	76	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	5.0	25		
Acrylonitrile	ug/L	0	20	16	80		
Methylene Chloride	ug/L	0	20	18	92		
Carbon Disulfide	ug/L	0	20	16	82		
trans-1,2-Dichloroethylene	ug/L	0	20	15	75		
1,1-Dichloroethane	ug/L	0	20	16	80		
Vinyl Acetate	ug/L	0	20	26	128		
2-Butanone (MEK)	ug/L	0	20	19	95		
cis-1,2-Dichloroethylene	ug/L	0	20	17	86	70-130	
Bromochloromethane	ug/L	0	20	17	85		
Chloroform	ug/L	0	20	15	77	70-130	
1,2-Dichloroethane	ug/L	0	20	15	76		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3108515 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0	20	15	73		
Carbon Tetrachloride	ug/L	0	20	16	78		
Benzene	ug/L	0	20	17	84	70-130	
Dibromomethane	ug/L	0	20	16	81		
1,2-Dichloropropane	ug/L	0	20	16	81		
Trichloroethene	ug/L	0	20	15	74	70-130	
Bromodichloromethane	ug/L	0	20	15	75		
cis-1,3-Dichloropropene	ug/L	0	20	16	81		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	17	83		
trans-1,3-Dichloropropylene	ug/L	0	20	16	82		
1,1,2-Trichloroethane	ug/L	0	20	15	77		
Toluene	ug/L	0	20	16	78	70-130	
2-Hexanone	ug/L	0	20	16	82		
Dibromochloromethane	ug/L	0	20	15	75		
Tetrachloroethylene (PCE)	ug/L	0	20	16	78	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	15	77		
Chlorobenzene	ug/L	0	20	16	79	70-130	
Ethylbenzene	ug/L	0	20	15	76	70-130	
Bromoform	ug/L	0	20	13	67		
Styrene	ug/L	0	20	15	75		
1,1,2,2-Tetrachloroethane	ug/L	0	20	16	78		
1,2,3-Trichloropropane	ug/L	0	20	15	75		
1,4-Dichlorobenzene	ug/L	0	20	15	77		
1,2-Dichlorobenzene	ug/L	0	20	16	80	70-130	
Xylene (Total)	ug/L	0	60	47	78	70-130	
1,2-Dichloroethane-d4 (S)	%	87			89	70-128	
Toluene-d8 (S)	%	97			96	77-119	
Bromofluorobenzene (S)	%	106			98	86-123	

QC Batch: EXTj/3477 Analysis Method: SW-846 8011

QC Batch Method: SW-846 8011 Prepared: 05/29/2019 12:00

Associated Lab Samples: J1906272009, J1906272010, J1906272011, J1906272012, J1906272013, J1906272014, J1906272016

METHOD BLANK: 3109406

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0062	0.0062	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0060	0.0060	U
Tetrachloro-m-xylene (S)	%	97	64-150	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3109407 3109408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.19	0.21	76	83	70-130	9	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.18	0.19	73	75	70-130	3	30	
Tetrachloro-m-xylene (S)	%				92	96	64-150	5		

MATRIX SPIKE SAMPLE: 3109410 Original: A1904082004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.26	0.22	85	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.26	0.21	81	70-130	
Tetrachloro-m-xylene (S)	%	44			26	64-150	J4

QC Batch: EXTj/3478 Analysis Method: SW-846 8011

QC Batch Method: SW-846 8011 Prepared: 05/28/2019 17:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3109596

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0062	0.0062	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0060	0.0060	U
Tetrachloro-m-xylene (S)	%	101	64-150	

LABORATORY CONTROL SAMPLE & LCSD: 3109597 3109598

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.21	0.22	85	86	70-130	1	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.22	0.21	86	84	70-130	2	30	
Tetrachloro-m-xylene (S)	%				106	101	64-150	5		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3109600 Original: A1904082002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.26	0.23	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.26	0.22	87	70-130	
Tetrachloro-m-xylene (S)	%	86			92	64-150	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J4 Estimated Result

V Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272001	19135-MW-1A			EPA 300.0	WCAj/4976
J1906272002	19135-MW-1B			EPA 300.0	WCAj/4976
J1906272017	19135-MW-27A			EPA 300.0	WCAj/4976
J1906272018	19135-MW-27B			EPA 300.0	WCAj/4976
J1906272003	19135-MW-2A			EPA 300.0	WCAj/4981
J1906272004	19135-MW-2B			EPA 300.0	WCAj/4981
J1906272005	19135-MW-3A			EPA 300.0	WCAj/4981
J1906272006	19135-MW-3B			EPA 300.0	WCAj/4981
J1906272007	19135-MW-4A			EPA 300.0	WCAj/4981
J1906272008	19135-MW-4B			EPA 300.0	WCAj/4981
J1906272009	19135-MW-5A			EPA 300.0	WCAj/4981
J1906272010	19135-MW-5B			EPA 300.0	WCAj/4981
J1906272011	19135-MW-6A			EPA 300.0	WCAj/4981
J1906272012	19135-MW-6B			EPA 300.0	WCAj/4981
J1906272013	19135-MW-16AR			EPA 300.0	WCAj/4981
J1906272014	19135-MW-16BR			EPA 300.0	WCAj/4981
J1906272015	19135-MW-17AR			EPA 300.0	WCAj/4981
J1906272016	19135-MW-17BR			EPA 300.0	WCAj/4981
J1906272019	19135-MW-28A			EPA 300.0	WCAj/4981
J1906272020	19135-MW-28B			EPA 300.0	WCAj/4981
J1906272021	19135-MW-29A			EPA 300.0	WCAj/4981
J1906272022	19135-MW-29B			EPA 300.0	WCAj/4981
J1906272001	19135-MW-1A			SM 2540 C	WCAj/5009
J1906272002	19135-MW-1B			SM 2540 C	WCAj/5009
J1906272003	19135-MW-2A			SM 2540 C	WCAj/5009
J1906272004	19135-MW-2B			SM 2540 C	WCAj/5009
J1906272001	19135-MW-1A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272002	19135-MW-1B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272003	19135-MW-2A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272004	19135-MW-2B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272005	19135-MW-3A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272006	19135-MW-3B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272007	19135-MW-4A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272008	19135-MW-4B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272009	19135-MW-5A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272010	19135-MW-5B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272011	19135-MW-6A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272012	19135-MW-6B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272013	19135-MW-16AR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272014	19135-MW-16BR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272015	19135-MW-17AR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272016	19135-MW-17BR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272017	19135-MW-27A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272018	19135-MW-27B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272019	19135-MW-28A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272020	19135-MW-28B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272021	19135-MW-29A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272022	19135-MW-29B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272001	19135-MW-1A			EPA 350.1	WCAg/6516
J1906272002	19135-MW-1B			EPA 350.1	WCAg/6517
J1906272003	19135-MW-2A			EPA 350.1	WCAg/6517
J1906272004	19135-MW-2B			EPA 350.1	WCAg/6517
J1906272005	19135-MW-3A			EPA 350.1	WCAg/6517
J1906272006	19135-MW-3B			EPA 350.1	WCAg/6517
J1906272007	19135-MW-4A			EPA 350.1	WCAg/6517
J1906272008	19135-MW-4B			EPA 350.1	WCAg/6517
J1906272009	19135-MW-5A			EPA 350.1	WCAg/6517
J1906272010	19135-MW-5B			EPA 350.1	WCAg/6517
J1906272011	19135-MW-6A			EPA 350.1	WCAg/6517
J1906272012	19135-MW-6B			EPA 350.1	WCAg/6518

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272013	19135-MW-16AR			EPA 350.1	WCAg/6518
J1906272014	19135-MW-16BR			EPA 350.1	WCAg/6518
J1906272015	19135-MW-17AR			EPA 350.1	WCAg/6518
J1906272016	19135-MW-17BR			EPA 350.1	WCAg/6518
J1906272017	19135-MW-27A			EPA 350.1	WCAg/6518
J1906272018	19135-MW-27B			EPA 350.1	WCAg/6518
J1906272019	19135-MW-28A			EPA 350.1	WCAg/6518
J1906272020	19135-MW-28B			EPA 350.1	WCAg/6518
J1906272021	19135-MW-29A			EPA 350.1	WCAg/6518
J1906272022	19135-MW-29B			EPA 350.1	WCAg/6519
J1906272005	19135-MW-3A			SM 2540 C	WCAj/5014
J1906272006	19135-MW-3B			SM 2540 C	WCAj/5014
J1906272007	19135-MW-4A			SM 2540 C	WCAj/5014
J1906272008	19135-MW-4B			SM 2540 C	WCAj/5014
J1906272009	19135-MW-5A			SM 2540 C	WCAj/5014
J1906272010	19135-MW-5B			SM 2540 C	WCAj/5014
J1906272012	19135-MW-6B			SM 2540 C	WCAj/5014
J1906272015	19135-MW-17AR			SM 2540 C	WCAj/5014
J1906272016	19135-MW-17BR			SM 2540 C	WCAj/5014
J1906272017	19135-MW-27A			SM 2540 C	WCAj/5014
J1906272018	19135-MW-27B			SM 2540 C	WCAj/5014
J1906272019	19135-MW-28A			SM 2540 C	WCAj/5014
J1906272020	19135-MW-28B			SM 2540 C	WCAj/5014
J1906272021	19135-MW-29A			SM 2540 C	WCAj/5014
J1906272022	19135-MW-29B			SM 2540 C	WCAj/5014
J1906272011	19135-MW-6A			SM 2540 C	WCAj/5025
J1906272013	19135-MW-16AR			SM 2540 C	WCAj/5025
J1906272014	19135-MW-16BR			SM 2540 C	WCAj/5025
J1906272001	19135-MW-1A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272002	19135-MW-1B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272003	19135-MW-2A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272004	19135-MW-2B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272005	19135-MW-3A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272006	19135-MW-3B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272007	19135-MW-4A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272008	19135-MW-4B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272009	19135-MW-5A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272010	19135-MW-5B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272011	19135-MW-6A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272012	19135-MW-6B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272013	19135-MW-16AR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272014	19135-MW-16BR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272015	19135-MW-17AR	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272016	19135-MW-17BR	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272017	19135-MW-27A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272018	19135-MW-27B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272019	19135-MW-28A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272020	19135-MW-28B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272021	19135-MW-29A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272022	19135-MW-29B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272001	19135-MW-1A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906272002	19135-MW-1B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906272003	19135-MW-2A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272004	19135-MW-2B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272005	19135-MW-3A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272006	19135-MW-3B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272007	19135-MW-4A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272008	19135-MW-4B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272009	19135-MW-5A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272010	19135-MW-5B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272011	19135-MW-6A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272012	19135-MW-6B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272013	19135-MW-16AR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272014	19135-MW-16BR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272015	19135-MW-17AR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272016	19135-MW-17BR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272017	19135-MW-27A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272018	19135-MW-27B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272019	19135-MW-28A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272020	19135-MW-28B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272021	19135-MW-29A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272022	19135-MW-29B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272001	19135-MW-1A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272002	19135-MW-1B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272003	19135-MW-2A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272004	19135-MW-2B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272005	19135-MW-3A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272006	19135-MW-3B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272007	19135-MW-4A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272008	19135-MW-4B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272009	19135-MW-5A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272010	19135-MW-5B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272011	19135-MW-6A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272012	19135-MW-6B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272013	19135-MW-16AR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272014	19135-MW-16BR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272015	19135-MW-17AR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272016	19135-MW-17BR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272017	19135-MW-27A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272018	19135-MW-27B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272019	19135-MW-28A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632

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Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272020	19135-MW-28B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272021	19135-MW-29A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272022	19135-MW-29B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272023	19135-TripBlank-2	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272024	19135-TripBlank-3	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272025	19135-TripBlank-4	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272009	19135-MW-5A	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272010	19135-MW-5B	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272011	19135-MW-6A	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272012	19135-MW-6B	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272013	19135-MW-16AR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272014	19135-MW-16BR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272016	19135-MW-17BR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272001	19135-MW-1A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272002	19135-MW-1B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272003	19135-MW-2A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272004	19135-MW-2B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272005	19135-MW-3A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272006	19135-MW-3B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272007	19135-MW-4A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272008	19135-MW-4B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272015	19135-MW-17AR	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272017	19135-MW-27A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272018	19135-MW-27B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272019	19135-MW-28A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272020	19135-MW-28B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272021	19135-MW-29A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272022	19135-MW-29B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272023	19135-TripBlank-2	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272024	19135-TripBlank-3	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272025	19135-TripBlank-4	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.6

* J 1 9 0 6 2 7 2 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Nick Stapley + Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page 1 of 3	

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF, 1501 Omni Way, St. Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3	LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic	
ANALYSIS REQUIRED											
PRESERVATION							HCL	HNO3	Ice	H2SO4	
19135-MW-1A		G	5/15/19	0740	GW	6	3	1	1	1	001
19135-MW-1B		↓	↓	0802	↓	↓	↓	↓	↓	↓	002
19135-MW-2A		↓	↓	0852	↓	↓	↓	↓	↓	↓	003
19135-MW-2B		↓	↓	0908	↓	↓	↓	↓	↓	↓	004
19135-MW-3A		↓	↓	1018	↓	↓	↓	↓	↓	↓	005
19135-MW-3B		↓	↓	0956	↓	↓	↓	↓	↓	↓	006
19135-MW-4A		↓	↓	1136	↓	↓	↓	↓	↓	↓	007
19135-MW-4B		↓	↓	1110	↓	↓	↓	↓	↓	↓	008
19135-MW-5A		↓	↓	1254	↓	↓	↓	↓	↓	↓	009
19135-MW-5B		G	5/15/19	1232	GW	6	3	1	1	1	010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/15/19	1600	FedEx	5/15/19	1600
2	FedEx	5-16-19	8:45	[illegible]	5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site-Address: _____

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 101
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 3260
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, Fl
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

7.1597

J1906272

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley + Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page 2 of 3	

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way. St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP (40 mL Vials)	App I Metals+Fe,Hg,Na (500 mL Plastic)	Cl/NO3/TDS (500 mL Plastic)	NH3 (250 mL Plastic)	LABORATORY I.D. NUMBER
19135-MW-6A		G	5/15/19	1410	GW	6	3	1	1	1	011
19135-MW-6B				1346							012
19135-MW-16AR				1403							013
19135-MW-16BR				1418							014
19135-MW-17AR				1236							015
19135-MW-17BR				1318							016
19135-MW-37A				0739							017
19135-MW-37B				0828							018
19135-MW-38A				0915							019
19135-MW-38B		G	5/15/19	0950	GW	6	3	1	1	1	020

PRESERVATION: HCL, HNO3, Ice, H2SO4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/15/19	1600	FedEx	5/15/19	1600
2	FedEx	5-16-19	8:45	[illegible]	5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

J1906272

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Shepley + Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 3 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way, St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE								40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
ANALYSIS REQUIRED								App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19135-MW-29A		G	5/15/19	1040	GW	6		3	1	1	1							021
19135-MW-29B		G	5/15/19	1108	GW	6		3	1	1	1							022
19135-Trip Blank-2	Incooler with 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B	-	-	-	DI H2O	3		3										023
19135-Trip Blank-3	Incooler with 5A, 5B, 6A, 6B, 16BR, 17BR, 17AR	-	-	-	↓	3		3										024
19135-Trip Blank-4	Incooler with 27A, 27B, 28A, 28B, 27A, 27B, 16AR	-	-	-	DI H2O	3		3										025

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/15/19	1600	FedEx	5/15/19	1600
2	FedEx	5/16/19	8:45	[illegible]	5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: Waste Connections
Project name: J.E.D Landfill
Date/Time Rcvd: 5-16-19 8:45
Log-In request number: J1906272
Received by: BA
Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓	✓	
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

air bubbles ~ 6mm or less. -003 the metals lid was loose
Some of the sample was lost (not much)
Trip Blanks labeled 2, 6, 10. Labeled 2, 3, and 4.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: Samples were extracted prior to the hold date and were subsequently analyzed as soon as possible post extraction. All method guidelines were met. No further corrective action was required.

III. Method

Analysis: SW-846 8011

Preparation: SW-846 8011

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for Tetrachloro-m-xylene in J1906272017, 002, and 021 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. The emulsions were such that centrifuging was required to separate the solvent from the water layer. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below the Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for several analytes between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3108513 in comparison with 3108514. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The spike recovery of Vinyl Chloride for the Laboratory Control Sample Duplicate (LCSD) was outside control criterion. The LCSD was analyzed only to allow for RPD determination. All client sampes were analyzed following ap assing CCV and LCS. No corrective action necessary.

The matrix spike (MS) recovery of Vinyl Chloride for J1906272020 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is J4 qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Chloride and/or Nitrate for J1906272016 and J1906272020 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion:

F. Samples:

G. Other:

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 17, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906329001	19136-MW-7A	Water	5/16/2019 08:32	5/17/2019 08:35
J1906329002	19136-MW-7B	Water	5/16/2019 08:14	5/17/2019 08:35
J1906329003	19136-MW-8A	Water	5/16/2019 09:44	5/17/2019 08:35
J1906329004	19136-MW-8B	Water	5/16/2019 09:22	5/17/2019 08:35
J1906329005	19136-MW-9A	Water	5/16/2019 11:00	5/17/2019 08:35
J1906329006	19136-MW-9B	Water	5/16/2019 10:38	5/17/2019 08:35
J1906329007	19136-MW-12A	Water	5/16/2019 13:55	5/17/2019 08:35
J1906329008	19136-MW-12B	Water	5/16/2019 13:37	5/17/2019 08:35
J1906329009	19136-MW-13A	Water	5/16/2019 11:55	5/17/2019 08:35
J1906329010	19136-MW-13B	Water	5/16/2019 12:30	5/17/2019 08:35
J1906329011	19136-MW-22AR	Water	5/16/2019 12:32	5/17/2019 08:35
J1906329012	19136-MW-22BR	Water	5/16/2019 12:10	5/17/2019 08:35
J1906329013	19136-MW-24A	Water	5/16/2019 14:08	5/17/2019 08:35
J1906329014	19136-MW-24B	Water	5/16/2019 13:46	5/17/2019 08:35
J1906329015	19136-Dup-1	Water	5/16/2019 00:01	5/17/2019 08:35
J1906329016	19136-TripBlank-5	Water	5/16/2019 00:00	5/17/2019 08:35
J1906329017	19136-TripBlank-6	Water	5/16/2019 00:00	5/17/2019 08:35

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:14	J
Barium	**19**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:14	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:14	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:14	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:14	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:14	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:14	J
Iron	**20000**		**ug/L**	**1**	400	100	5/24/2019 11:14	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:14	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:14	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:14	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:14	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:14	J
Vanadium	**1.9**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:15	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:14	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.013**	**I,J4**	**ug/L**	**1**	0.10	0.011	5/24/2019 15:41	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 16:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 16:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 16:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 16:11	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 16:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 16:11	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 16:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 16:11	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 16:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 16:11	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 16:11	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 16:11	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 16:11	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:11	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 16:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 16:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 16:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:11	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 16:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 16:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 16:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 16:11	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 16:11	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/29/2019 16:11	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 16:11	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 16:11	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 16:11	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 16:11	
Toluene-d8 (S)	**101**		**%**	**1**	80-121		5/29/2019 16:11	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 16:11	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**76**		**mg/L**	**1**	5.0	0.50	5/17/2019 15:55	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 15:55	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**25**	0.25	0.20	5/23/2019 14:58	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**140**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:38	J
Barium	**32**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:38	J
Beryllium	**0.80**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:38	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:38	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:38	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**3.5**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:38	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:38	J
Iron	**22000**		**ug/L**	**1**	400	100	5/24/2019 11:38	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:38	J
Nickel	**6.5**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:38	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:38	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:38	J
Sodium	**19**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:38	J
Vanadium	**4.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:19	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:38	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:51	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 15:57	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 16:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 16:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 16:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 16:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 16:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 16:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 16:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 16:47	J
Acetone	**2.5**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 16:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 16:47	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 16:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 16:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 16:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 16:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 16:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 16:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 16:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 16:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 16:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/29/2019 16:47	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 16:47	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/29/2019 16:47	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 16:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**83**		**%**	**1**	77-125		5/29/2019 16:47	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 16:47	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		5/29/2019 16:47	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**39**		**mg/L**	**1**	5.0	0.50	5/17/2019 16:16	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 16:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.6**		**mg/L**	**5**	0.050	0.040	5/23/2019 14:59	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**460**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:42	J
Barium	**27**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:42	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:42	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:42	J
Chromium	**2.7**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:42	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:42	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:42	J
Iron	**2800**		**ug/L**	**1**	400	100	5/24/2019 11:42	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:42	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:42	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:42	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:42	J
Sodium	**4.6**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:42	J
Vanadium	**8.2**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:23	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:42	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:54	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:54	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:01	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 17:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 17:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 17:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 17:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 17:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 17:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 17:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 17:28	J
Acetone	**2.2**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 17:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 17:28	J
Benzene	**1.5**		**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 17:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 17:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 17:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 17:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 17:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 17:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 17:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 17:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 17:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 17:28	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 17:28	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 17:28	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/29/2019 17:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 17:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 17:28	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 17:28	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		5/29/2019 17:28	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		5/29/2019 17:28	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.9**	**I**	**mg/L**	**5**	25	2.5	5/17/2019 16:58	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 16:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**10**	0.10	0.080	5/23/2019 14:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:45	J
Barium	**42**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:45	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:45	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:45	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:45	J
Cobalt	**8.5**		**ug/L**	**1**	8.0	2.0	5/24/2019 11:45	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:45	J
Iron	**46000**		**ug/L**	**1**	400	100	5/24/2019 11:45	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:45	J
Nickel	**7.3**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:45	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:45	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:45	J
Sodium	**33**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:45	J
Vanadium	**6.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:45	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:59	J
Thallium	**0.097**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.016**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:04	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 17:57	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:57	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 17:57	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 17:57	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 17:57	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 17:57	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:57	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 17:57	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 17:57	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 17:57	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 17:57	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 17:57	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 17:57	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 17:57	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 17:57	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:57	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 17:57	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:57	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:57	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:57	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 17:57	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:57	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 17:57	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:57	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:57	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 17:57	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 17:57	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 17:57	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:57	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 17:57	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 17:57	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/29/2019 17:57	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 17:57	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 17:57	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 17:57	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 17:57	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 17:57	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 17:57	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**11**		**mg/L**	**1**	5.0	0.50	5/17/2019 16:37	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 16:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**5**	0.050	0.040	5/23/2019 14:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:49	J
Barium	**6.5**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:49	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:49	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:49	J
Chromium	**2.4**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:49	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:49	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:49	J
Iron	**490**		**ug/L**	**1**	400	100	5/24/2019 11:49	J
Lead	**5.3**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 11:49	J
Nickel	**6.7**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:49	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:49	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:49	J
Sodium	**22**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:49	J
Vanadium	**6.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:30	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:49	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:03	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.027**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:14	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 18:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 18:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 18:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 18:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 18:34	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 18:34	J
1,4-Dichlorobenzene	**1.5**		**ug/L**	**1**	1.0	0.22	5/29/2019 18:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 18:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 18:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 18:34	J
Acetone	**8.4**		**ug/L**	**1**	5.0	2.1	5/29/2019 18:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 18:34	J
Benzene	**9.9**		**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 18:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 18:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 18:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 18:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 18:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 18:34	J
Chlorobenzene	**0.35**	**I**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 18:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 18:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 18:34	J
Ethylbenzene	**0.89**	**I**	**ug/L**	**1**	1.0	0.24	5/29/2019 18:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 18:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 18:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 18:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 18:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 18:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
Xylene (Total)	**1.0**	**I**	**ug/L**	**1**	2.0	0.53	5/29/2019 18:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 18:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 18:34	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 18:34	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 18:34	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 18:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 18:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 18:34	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 18:34	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 18:34	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 18:34	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	5/17/2019 18:22	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 18:22	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.7**		**mg/L**	**20**	0.20	0.16	5/23/2019 14:12	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**210**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:52	J
Barium	**47**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:52	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:52	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:52	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:52	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:52	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:52	J
Iron	**9000**		**ug/L**	**1**	400	100	5/24/2019 11:52	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:52	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:52	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:52	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:52	J
Sodium	**38**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:52	J
Vanadium	**6.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:34	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:52	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:06	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:06	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:17	J
VOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**400**		**mg/L**	**1**	10	10	5/22/2019 16:45	J
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 19:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 19:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 19:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 19:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 19:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 19:03	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 19:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 19:03	J
Acetone	**4.4**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 19:03	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 19:03	J
Benzene	**0.42**	**I**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 19:03	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 19:03	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 19:03	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:03	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 19:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 19:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 19:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 19:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 19:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 19:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 19:03	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 19:03	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 19:03	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 19:03	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 19:03	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location: RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 19:03	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 19:03	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 19:03	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 19:03	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**110**		**mg/L**	**1**	5.0	0.50	5/17/2019 17:19	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 17:19	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.2**		**mg/L**	**5**	0.050	0.040	5/23/2019 15:09	G

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location: RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Vanadium	**8.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:37	J
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:56	J
Barium	**110**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:56	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:56	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:56	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:56	J
Cobalt	**3.0**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:56	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:56	J
Iron	**6900**		**ug/L**	**1**	400	100	5/24/2019 11:56	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:56	J
Nickel	**7.0**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:56	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:56	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:56	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sodium	**100**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:56	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:56	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:10	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:10	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 19:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 19:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 19:40	J
1,1-Dichloroethylene	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 19:40	J
1,2-Dichlorobenzene	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 19:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 19:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 19:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 19:40	J
Acetone	**3.5**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 19:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 19:40	J
Benzene	**5.0**	**J4**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 19:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 19:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 19:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 19:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:40	J
Chlorobenzene	**0.21**	**U,J4**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:40	J
Chloroform	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:40	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 19:40	J
Ethylbenzene	**0.24**	**U,J4**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 19:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
Tetrachloroethylene (PCE)	**0.36**	**U,J4**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:40	J
Toluene	**0.23**	**U,J4**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
Trichloroethene	**0.29**	**U,J4**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 19:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 19:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
Xylene (Total)	**0.53**	**U,J4**	**ug/L**	**1**	2.0	0.53	5/29/2019 19:40	J
cis-1,2-Dichloroethylene	**0.24**	**U,J4**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 19:40	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 19:40	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 19:40	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 19:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 19:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 19:40	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 19:40	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 19:40	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 19:40	
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	5/17/2019 21:32	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 21:32	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.4**		**mg/L**	**5**	0.050	0.040	5/23/2019 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**390**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:20	J

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:59	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:59	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:59	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:59	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:59	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:59	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:59	J
Iron	**550**		**ug/L**	**1**	400	100	5/24/2019 11:59	J
Lead	**3.2**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 11:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:59	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:59	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:59	J
Sodium	**7.8**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:59	J
Vanadium	**3.6**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:41	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:59	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:36	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:36	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location:

RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:23	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 20:09	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:09	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 20:09	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 20:09	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 20:09	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 20:09	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:09	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 20:09	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 20:09	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 20:09	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 20:09	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 20:09	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 20:09	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 20:09	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 20:09	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:09	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 20:09	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:09	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:09	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:09	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 20:09	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:09	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 20:09	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:09	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:09	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 20:09	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 20:09	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 20:09	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:09	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 20:09	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/29/2019 20:09	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 20:09	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/29/2019 20:09	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 20:09	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 20:09	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	77-125		5/29/2019 20:09	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 20:09	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		5/29/2019 20:09	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:29	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.05**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:26	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**61**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:10	J
Barium	**290**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:10	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:10	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:10	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:10	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:10	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:10	J
Iron	**26000**		**ug/L**	**1**	400	100	5/24/2019 12:10	J
Lead	**3.5**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 12:10	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:10	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:10	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:10	J
Sodium	**350**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:10	J
Vanadium	**13**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:10	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:27	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 20:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 20:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 20:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 20:46	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 20:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 20:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 20:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 20:46	J
Acetone	**3.4**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 20:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 20:46	J
Benzene	**7.3**		**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 20:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 20:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 20:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 20:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 20:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 20:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 20:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 20:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
Xylene (Total)	**1.2**	**I**	**ug/L**	**1**	2.0	0.53	5/29/2019 20:46	J
cis-1,2-Dichloroethylene	**0.63**	**I**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 20:46	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 20:46	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 20:46	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 20:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 20:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 20:46	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 20:46	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 20:46	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 20:46	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1200**		**mg/L**	**20**	100	10	5/17/2019 18:43	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/17/2019 18:43	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.2**		**mg/L**	**10**	0.10	0.080	5/23/2019 15:13	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:13	J
Barium	**13**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:13	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:13	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:13	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:13	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:13	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:13	J
Iron	**1100**		**ug/L**	**1**	400	100	5/24/2019 12:13	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:13	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:13	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:13	J
Sodium	**12**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:13	J
Vanadium	**2.8**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:10	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:13	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:30	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 21:15	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:15	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 21:15	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 21:15	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 21:15	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 21:15	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:15	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 21:15	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 21:15	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 21:15	J
Acetone	**5.7**		**ug/L**	**1**	5.0	2.1	5/29/2019 21:15	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 21:15	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 21:15	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 21:15	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 21:15	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:15	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 21:15	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:15	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:15	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:15	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 21:15	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:15	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 21:15	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:15	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:15	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 21:15	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 21:15	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 21:15	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:15	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 21:15	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		5/29/2019 21:15	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/29/2019 21:15	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 21:15	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 21:15	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 21:15	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		5/29/2019 21:15	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 21:15	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 21:15	

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/17/2019 19:46	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 19:46	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.11**		**mg/L**	**1**	0.010	0.0080	5/23/2019 15:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**76**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:17	J
Barium	**55**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:17	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:17	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:17	J
Chromium	**2.2**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:17	J
Cobalt	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:17	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:17	J
Iron	**13000**		**ug/L**	**1**	400	100	5/24/2019 12:17	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:17	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:17	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:17	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:17	J
Vanadium	**6.1**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:14	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:33	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 21:52	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:52	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 21:52	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 21:52	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 21:52	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 21:52	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:52	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 21:52	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 21:52	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 21:52	J
Acetone	**2.9**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 21:52	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 21:52	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 21:52	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 21:52	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 21:52	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:52	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 21:52	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:52	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:52	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:52	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 21:52	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:52	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 21:52	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:52	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:52	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 21:52	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 21:52	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 21:52	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:52	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 21:52	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		5/29/2019 21:52	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 21:52	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 21:52	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 21:52	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 21:52	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		5/29/2019 21:52	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 21:52	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 21:52	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:08	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.8**		**mg/L**	**20**	0.20	0.16	5/23/2019 15:15	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**540**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:02	J
Barium	**14**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:02	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:02	J
Iron	**1500**		**ug/L**	**1**	400	100	5/28/2019 14:02	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:02	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:02	J
Sodium	**7.6**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:02	J
Vanadium	**1.1**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:02	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:36	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	5/17/2019 19:04	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 19:04	J
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 22:21	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:21	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 22:21	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 22:21	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 22:21	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 22:21	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:21	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 22:21	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 22:21	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 22:21	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 22:21	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 22:21	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 22:21	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 22:21	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 22:21	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:21	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 22:21	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:21	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:21	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:21	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 22:21	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:21	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 22:21	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:21	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:21	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 22:21	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 22:21	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 22:21	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:21	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 22:21	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/29/2019 22:21	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 22:21	
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/29/2019 22:21	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 22:21	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 22:21	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		5/29/2019 22:21	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 22:21	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		5/29/2019 22:21	
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.37**		**mg/L**	**1**	0.010	0.0080	5/23/2019 15:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**64**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:22	J
Barium	**27**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:22	J
Iron	**680**		**ug/L**	**1**	400	100	5/28/2019 14:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:22	J
Sodium	**20**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:22	J
Vanadium	**3.8**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:11	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:11	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:40	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 22:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 22:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 22:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 22:58	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 22:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 22:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 22:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 22:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 22:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 22:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 22:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 22:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 22:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:58	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 22:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 22:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 22:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 22:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 22:58	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 22:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 22:58	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		5/29/2019 22:58	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/29/2019 22:58	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 22:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 22:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 22:58	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	77-125		5/29/2019 22:58	
Toluene-d8 (S)	**101**		**%**	**1**	80-121		5/29/2019 22:58	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 22:58	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**300**		**mg/L**	**2**	10	1.0	5/22/2019 09:44	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 21:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.06**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:32	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**100**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:26	J
Barium	**10**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:26	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:26	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:26	J
Iron	**480**		**ug/L**	**1**	400	100	5/28/2019 14:26	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:26	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:26	J
Sodium	**6.2**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:26	J
Vanadium	**2.1**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:15	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:15	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:43	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/30/2019 03:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/30/2019 03:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/30/2019 03:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/30/2019 03:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/30/2019 03:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/30/2019 03:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/30/2019 03:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/30/2019 03:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/30/2019 03:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/30/2019 03:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/30/2019 03:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/30/2019 03:40	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/30/2019 03:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/30/2019 03:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/30/2019 03:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/30/2019 03:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/30/2019 03:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/30/2019 03:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/30/2019 03:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/30/2019 03:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/30/2019 03:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/30/2019 03:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/30/2019 03:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/30/2019 03:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/30/2019 03:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/30/2019 03:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/30/2019 03:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/30/2019 03:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/30/2019 03:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/30/2019 03:40	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		5/30/2019 03:40	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/30/2019 03:40	
Bromofluorobenzene (S)	**119**		**%**	**1**	86-123		5/30/2019 03:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/30/2019 03:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/30/2019 03:40	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/30/2019 03:40	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/30/2019 03:40	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		5/30/2019 03:40	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**35**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**66**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:29	J
Barium	**270**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:29	J
Iron	**22000**		**ug/L**	**1**	400	100	5/28/2019 14:29	J
Lead	**5.2**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:29	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:29	J
Sodium	**380**		**mg/L**	**2**	2.8	0.70	5/29/2019 09:06	J
Vanadium	**10**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:29	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:19	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:19	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:52	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 14:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 14:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 14:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 14:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 14:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 14:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 14:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 14:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 14:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 14:35	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 14:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 14:35	J
Benzene	**7.2**		**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 14:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 14:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 14:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 14:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 14:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 14:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 14:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 14:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 14:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 14:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 14:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 14:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 14:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 14:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 14:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 14:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 14:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 14:35	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 14:35	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 14:35	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 14:35	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 14:35	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 14:35	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 14:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1200**		**mg/L**	**20**	100	10	5/17/2019 15:34	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/17/2019 15:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.2**		**mg/L**	**10**	0.10	0.080	5/23/2019 15:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1700**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329016** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-TripBlank-5** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 15:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 15:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 15:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 15:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 15:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 15:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 15:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 15:05	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 15:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 15:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 15:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 15:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 15:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 15:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329016** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-5** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 15:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 15:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 15:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 15:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 15:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 15:05	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 15:05	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 15:05	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 15:05	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 15:05	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 15:05	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 15:05	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		5/29/2019 15:05	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 15:05	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329017** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-6** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 15:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 15:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 15:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 15:41	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 15:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 15:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 15:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 15:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 15:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 15:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 15:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 15:41	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 15:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 15:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 15:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 15:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:41	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329017** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-6** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 15:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 15:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 15:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 15:41	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 15:41	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 15:41	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 15:41	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 15:41	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 15:41	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 15:41	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 15:41	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 15:41	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4985 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329006, J1906329015

METHOD BLANK: 3099609

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3099610 3099611

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	110	90-110	0	10	
Nitrate (as N)	mg/L	2	2.2	2.1	109	103	90-110	6	10	

MATRIX SPIKE SAMPLE: 3099649 Original: J1906316006

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	170	20	190	60	90-110	
Nitrate (as N)	mg/L	0	2	2.3	117	90-110	

QC Batch: WCAj/4990 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906329005, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3099865

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3099866 3099867

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	108	90-110	1	10	
Nitrate (as N)	mg/L	2	2.2	2.2	108	110	90-110	2	10	

MATRIX SPIKE SAMPLE: 3099868 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	19	20	38	93	90-110	
Nitrate (as N)	mg/L	0	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 3101100 Original: J1906359001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	12	20	31	97	90-110	
Nitrate (as N)	mg/L	0.006	2	2.1	103	90-110	

QC Batch: DGMj/3420 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007

METHOD BLANK: 3101153

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	51	103	80-120	
Thallium	ug/L	50	55	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101155 3101156 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.21	50	52	53	104	107	75-125	2	20	
Thallium	ug/L	0.026	50	56	50	112	100	75-125	12	20	

QC Batch: DGMj/3421 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013, J1906329014, J1906329015

METHOD BLANK: 3101158

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	53	105	80-120	
Thallium	ug/L	50	49	98	80-120	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.023	50	51	52	103	104	75-125	2	20	
Thallium	ug/L	0.019	50	47	48	95	97	75-125	2	20	

QC Batch: WCAj/5024 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906329013

METHOD BLANK: 3103172

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U

LABORATORY CONTROL SAMPLE & LCSD: 3103173 3103174

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	19	19	93	95	90-110	2	10	

MATRIX SPIKE SAMPLE: 3104343 Original: J1906546001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	19	20	37	90	90-110	

MATRIX SPIKE SAMPLE: 3104915 Original: J1906471002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	70	20	89	97	90-110	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5025 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005

METHOD BLANK: 3103402

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3103403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	112	85-115	

SAMPLE DUPLICATE: 3103404 Original: J1906272011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	170	5	10	

QC Batch: DGMj/3435 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3103525

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103525

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	1.4	1.0	I

LABORATORY CONTROL SAMPLE: 3103526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	98	80-120	
Arsenic	ug/L	200	190	95	80-120	
Barium	ug/L	20	20	101	80-120	
Beryllium	ug/L	10	9.5	95	80-120	
Cadmium	ug/L	20	20	98	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	40	99	80-120	
Copper	ug/L	80	80	100	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.1	102	80-120	
Nickel	ug/L	120	120	100	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	780	97	80-120	
Vanadium	ug/L	20	20	98	80-120	
Zinc	ug/L	1000	980	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103527 3103528 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103527 3103528 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Silver	ug/L	0	200	200	200	102	100	75-125	2	20	
Arsenic	ug/L	0	200	190	200	97	98	75-125	1	20	
Barium	ug/L	19	20	40	40	105	104	75-125	0	20	
Beryllium	ug/L	0	10	9.9	9.7	99	97	75-125	2	20	
Cadmium	ug/L	0	20	19	19	96	97	75-125	1	20	
Cobalt	ug/L	1.8	40	43	42	108	106	75-125	2	20	
Chromium	ug/L	0.4	40	42	40	105	101	75-125	4	20	
Copper	ug/L	0	80	82	77	102	96	75-125	6	20	
Iron	ug/L	20000	2000	23000	22000	137	113	75-125	2	20	
Sodium	mg/L	18	7	26	26	109	102	75-125	2	20	
Nickel	ug/L	0.2	120	120	120	104	103	75-125	0	20	
Lead	ug/L	0.4	60	61	61	102	102	75-125	0	20	
Selenium	ug/L	0	800	750	740	94	93	75-125	1	20	
Vanadium	ug/L	1.9	20	22	23	103	107	75-125	4	20	
Zinc	ug/L	6.1	1000	1000	1000	101	100	75-125	1	20	

QC Batch: DGMj/3436 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906329012, J1906329013, J1906329014, J1906329015

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.2	1.0	I
Zinc	ug/L	50	50	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3103530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	97	80-120	
Arsenic	ug/L	200	200	100	80-120	
Barium	ug/L	20	20	102	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	101	80-120	
Cobalt	ug/L	40	41	103	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.5	108	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	800	100	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	190	99	97	75-125	2	20	
Arsenic	ug/L	2.8	200	200	200	101	102	75-125	1	20	
Barium	ug/L	14	20	35	34	106	104	75-125	1	20	
Beryllium	ug/L	0.1	10	10	9.9	101	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	103	101	75-125	2	20	
Cobalt	ug/L	0.3	40	42	42	106	104	75-125	2	20	
Chromium	ug/L	0	40	39	39	98	99	75-125	1	20	
Copper	ug/L	0	80	77	76	97	95	75-125	2	20	
Iron	ug/L	1500	2000	3500	3500	100	98	75-125	1	20	
Sodium	mg/L	7.6	7	15	15	111	108	75-125	1	20	
Nickel	ug/L	2.4	120	130	130	112	105	75-125	6	20	
Lead	ug/L	2.5	60	66	64	110	107	75-125	2	20	
Selenium	ug/L	0	800	820	810	103	101	75-125	2	20	
Vanadium	ug/L	1.1	20	22	22	107	103	75-125	4	20	
Zinc	ug/L	3.6	1000	1000	1000	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5032 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1906329006, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3104463

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3104464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

SAMPLE DUPLICATE: 3104465 Original: J1906329006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	400	380	3	10	

QC Batch: WCAg/6571 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005

METHOD BLANK: 3105410

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3105411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.47	95	90-110	

LABORATORY CONTROL SAMPLE: 3105412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105413 3105414 Original: J1906123003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0	0.4	0.41	0.40	104	101	90-110	3	10	

QC Batch: WCAg/6572 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906329006, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3105416

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3105417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.47	93	90-110	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3105418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.18	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105419 3105420 Original: J1906329006

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	1.2	2	3.4	3.3	106	104	90-110	1	10	

QC Batch: DGMj/3454 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3106506

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106508 3106509 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.013	2	1.4	1.4	69	71	80-120	3	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch:	MSVj/3639	Analysis Method:	SW-846 8260B
QC Batch Method:	SW-846 5030B	Prepared:	05/29/2019 10:12

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3109810

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3109810

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	89	70-128	
Toluene-d8 (S)	%	97	77-119	
Bromofluorobenzene (S)	%	110	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3109811 3109812

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	15	15	74	73		1		
Vinyl Chloride	ug/L	20	17	17	84	85	70-130	1	20	
Bromomethane	ug/L	20	9.4	7.8	47	39		17		
Chloroethane	ug/L	20	17	18	87	91		5		
Trichlorofluoromethane	ug/L	20	21	22	105	109		4		
Acetone	ug/L	20	16	18	78	92		16		
1,1-Dichloroethylene	ug/L	20	22	23	109	113	70-130	3	20	
Iodomethane (Methyl Iodide)	ug/L	20	8.0	8.8	40	44		9		
Acrylonitrile	ug/L	20	21	22	105	108		3		
Methylene Chloride	ug/L	20	25	29	127	144		12		
Carbon Disulfide	ug/L	20	23	22	113	111		1		
trans-1,2-Dichloroethylene	ug/L	20	22	23	112	116		4		
1,1-Dichloroethane	ug/L	20	23	24	113	119		5		
Vinyl Acetate	ug/L	20	26	18	128	90		35		
2-Butanone (MEK)	ug/L	20	22	23	110	113		3		
cis-1,2-Dichloroethylene	ug/L	20	24	24	120	122	70-130	2	20	
Bromochloromethane	ug/L	20	24	27	122	136		10		
Chloroform	ug/L	20	22	22	109	112	70-130	3	20	
1,2-Dichloroethane	ug/L	20	21	22	107	113		5		
1,1,1-Trichloroethane	ug/L	20	21	21	104	106		2		
Carbon Tetrachloride	ug/L	20	22	23	110	114		3		
Benzene	ug/L	20	23	23	115	117	70-130	1	20	
Dibromomethane	ug/L	20	22	24	110	118		7		
1,2-Dichloropropane	ug/L	20	22	24	112	118		5		
Trichloroethene	ug/L	20	22	24	111	118	70-130	6	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3109811 3109812

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	20	21	22	107	111		4		
cis-1,3-Dichloropropene	ug/L	20	25	24	124	119		5		
4-Methyl-2-pentanone (MIBK)	ug/L	20	20	22	102	111		8		
trans-1,3-Dichloropropylene	ug/L	20	25	24	125	119		5		
1,1,2-Trichloroethane	ug/L	20	22	23	112	113		1		
Toluene	ug/L	20	22	21	111	105	70-130	5	20	
2-Hexanone	ug/L	20	19	20	95	102		7		
Dibromochloromethane	ug/L	20	21	19	104	97		7		
Tetrachloroethylene (PCE)	ug/L	20	22	20	112	101	70-130	11	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	21	109	103		6		
Chlorobenzene	ug/L	20	22	21	110	106	70-130	4	20	
Ethylbenzene	ug/L	20	22	21	109	104	70-130	5	20	
Bromoform	ug/L	20	19	18	93	91		3		
Styrene	ug/L	20	21	20	106	100		6		
1,1,2,2-Tetrachloroethane	ug/L	20	21	19	105	96		9		
1,2,3-Trichloropropane	ug/L	20	21	21	105	103		1		
1,4-Dichlorobenzene	ug/L	20	22	20	111	102		8		
1,2-Dichlorobenzene	ug/L	20	22	20	109	102	70-130	7	20	
Xylene (Total)	ug/L	60	66	63	110	105	70-130	5	20	
1,2-Dichloroethane-d4 (S)	%				88	104	70-128	16		
Toluene-d8 (S)	%				99	99	77-119	0		
Bromofluorobenzene (S)	%				103	103	86-123	0		

MATRIX SPIKE SAMPLE: 3109813 Original: J1906329007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	21	105		
Vinyl Chloride	ug/L	0	20	26	130	70-130	
Bromomethane	ug/L	0	20	13	67		
Chloroethane	ug/L	0	20	27	137		
Trichlorofluoromethane	ug/L	0	20	32	162		
Acetone	ug/L	3.5	20	29	128		
1,1-Dichloroethylene	ug/L	0	20	33	166	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	9.8	49		
Acrylonitrile	ug/L	0	20	31	156		
Methylene Chloride	ug/L	0	20	36	180		
Carbon Disulfide	ug/L	0	20	32	162		
trans-1,2-Dichloroethylene	ug/L	0	20	33	165		

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3109813 Original: J1906329007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	0	20	36	178		
Vinyl Acetate	ug/L	0	20	42	209		
2-Butanone (MEK)	ug/L	0	20	35	175		
cis-1,2-Dichloroethylene	ug/L	0	20	35	177	70-130	
Bromochloromethane	ug/L	0	20	41	207		
Chloroform	ug/L	0	20	34	171	70-130	
1,2-Dichloroethane	ug/L	0	20	35	173		
1,1,1-Trichloroethane	ug/L	0	20	32	161		
Carbon Tetrachloride	ug/L	0	20	35	174		
Benzene	ug/L	5	20	41	181	70-130	
Dibromomethane	ug/L	0	20	36	181		
1,2-Dichloropropane	ug/L	0	20	36	182		
Trichloroethene	ug/L	0	20	33	163	70-130	
Bromodichloromethane	ug/L	0	20	35	173		
cis-1,3-Dichloropropene	ug/L	0	20	28	142		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	33	165		
trans-1,3-Dichloropropylene	ug/L	0	20	29	143		
1,1,2-Trichloroethane	ug/L	0	20	35	177		
Toluene	ug/L	0	20	33	166	70-130	
2-Hexanone	ug/L	0	20	33	164		
Dibromochloromethane	ug/L	0	20	33	163		
Tetrachloroethylene (PCE)	ug/L	0	20	31	154	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	35	175		
Chlorobenzene	ug/L	0	20	33	167	70-130	
Ethylbenzene	ug/L	0	20	33	164	70-130	
Bromoform	ug/L	0	20	29	147		
Styrene	ug/L	0	20	31	154		
1,1,2,2-Tetrachloroethane	ug/L	0	20	33	166		
1,2,3-Trichloropropane	ug/L	0	20	30	148		
1,4-Dichlorobenzene	ug/L	0	20	31	154		
1,2-Dichlorobenzene	ug/L	0	20	32	162	70-130	
Xylene (Total)	ug/L	0	60	99	164	70-130	
1,2-Dichloroethane-d4 (S)	%	89			97	70-128	
Toluene-d8 (S)	%	98			99	77-119	
Bromofluorobenzene (S)	%	114			99	86-123	

QC Batch: MSVj/3641 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/29/2019 10:12

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3109817

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	85	77-125	
Toluene-d8 (S)	%	101	80-121	
Bromofluorobenzene (S)	%	96	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3109818 3109819

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.89	0.77	111	96	70-130	14	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	1.1	1.1	138	136	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%				81	87	77-125	7		
Toluene-d8 (S)	%				106	103	80-121	3		
Bromofluorobenzene (S)	%				101	99	80-129	2		

MATRIX SPIKE SAMPLE: 3109820 Original: J1906329002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.73	91	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	1.2	148	70-130	
1,2-Dichloroethane-d4 (S)	%	83			88	77-125	
Toluene-d8 (S)	%	102			105	80-121	
Bromofluorobenzene (S)	%	96			100	80-129	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result
V	Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329001	19136-MW-7A			EPA 300.0	WCAj/4985
J1906329002	19136-MW-7B			EPA 300.0	WCAj/4985
J1906329003	19136-MW-8A			EPA 300.0	WCAj/4985
J1906329004	19136-MW-8B			EPA 300.0	WCAj/4985
J1906329006	19136-MW-9B			EPA 300.0	WCAj/4985
J1906329015	19136-Dup-1			EPA 300.0	WCAj/4985
J1906329005	19136-MW-9A			EPA 300.0	WCAj/4990
J1906329007	19136-MW-12A			EPA 300.0	WCAj/4990
J1906329008	19136-MW-12B			EPA 300.0	WCAj/4990
J1906329009	19136-MW-13A			EPA 300.0	WCAj/4990
J1906329010	19136-MW-13B			EPA 300.0	WCAj/4990
J1906329011	19136-MW-22AR			EPA 300.0	WCAj/4990
J1906329012	19136-MW-22BR			EPA 300.0	WCAj/4990
J1906329013	19136-MW-24A			EPA 300.0	WCAj/4990
J1906329014	19136-MW-24B			EPA 300.0	WCAj/4990
J1906329001	19136-MW-7A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329002	19136-MW-7B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329003	19136-MW-8A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329004	19136-MW-8B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329005	19136-MW-9A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329006	19136-MW-9B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329007	19136-MW-12A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329008	19136-MW-12B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329009	19136-MW-13A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329010	19136-MW-13B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329011	19136-MW-22AR	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329012	19136-MW-22BR	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329013	19136-MW-24A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329014	19136-MW-24B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329015	19136-Dup-1	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329013	19136-MW-24A			EPA 300.0	WCAj/5024
J1906329001	19136-MW-7A			SM 2540 C	WCAj/5025
J1906329002	19136-MW-7B			SM 2540 C	WCAj/5025
J1906329003	19136-MW-8A			SM 2540 C	WCAj/5025
J1906329004	19136-MW-8B			SM 2540 C	WCAj/5025
J1906329005	19136-MW-9A			SM 2540 C	WCAj/5025
J1906329001	19136-MW-7A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329002	19136-MW-7B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329003	19136-MW-8A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329004	19136-MW-8B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329005	19136-MW-9A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329006	19136-MW-9B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329007	19136-MW-12A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329008	19136-MW-12B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329009	19136-MW-13A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329010	19136-MW-13B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329011	19136-MW-22AR	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329012	19136-MW-22BR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329013	19136-MW-24A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329014	19136-MW-24B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329015	19136-Dup-1	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329006	19136-MW-9B			SM 2540 C	WCAj/5032
J1906329007	19136-MW-12A			SM 2540 C	WCAj/5032
J1906329008	19136-MW-12B			SM 2540 C	WCAj/5032
J1906329009	19136-MW-13A			SM 2540 C	WCAj/5032
J1906329010	19136-MW-13B			SM 2540 C	WCAj/5032
J1906329011	19136-MW-22AR			SM 2540 C	WCAj/5032
J1906329012	19136-MW-22BR			SM 2540 C	WCAj/5032
J1906329013	19136-MW-24A			SM 2540 C	WCAj/5032

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329014	19136-MW-24B			SM 2540 C	WCAj/5032
J1906329015	19136-Dup-1			SM 2540 C	WCAj/5032
J1906329001	19136-MW-7A			EPA 350.1	WCAg/6571
J1906329002	19136-MW-7B			EPA 350.1	WCAg/6571
J1906329003	19136-MW-8A			EPA 350.1	WCAg/6571
J1906329004	19136-MW-8B			EPA 350.1	WCAg/6571
J1906329005	19136-MW-9A			EPA 350.1	WCAg/6571
J1906329006	19136-MW-9B			EPA 350.1	WCAg/6572
J1906329007	19136-MW-12A			EPA 350.1	WCAg/6572
J1906329008	19136-MW-12B			EPA 350.1	WCAg/6572
J1906329009	19136-MW-13A			EPA 350.1	WCAg/6572
J1906329010	19136-MW-13B			EPA 350.1	WCAg/6572
J1906329011	19136-MW-22AR			EPA 350.1	WCAg/6572
J1906329012	19136-MW-22BR			EPA 350.1	WCAg/6572
J1906329013	19136-MW-24A			EPA 350.1	WCAg/6572
J1906329014	19136-MW-24B			EPA 350.1	WCAg/6572
J1906329015	19136-Dup-1			EPA 350.1	WCAg/6572
J1906329001	19136-MW-7A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329002	19136-MW-7B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329003	19136-MW-8A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329004	19136-MW-8B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329005	19136-MW-9A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329006	19136-MW-9B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329007	19136-MW-12A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329008	19136-MW-12B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329009	19136-MW-13A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329010	19136-MW-13B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329011	19136-MW-22AR	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329012	19136-MW-22BR	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329013	19136-MW-24A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329014	19136-MW-24B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329015	19136-Dup-1	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329001	19136-MW-7A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329002	19136-MW-7B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329003	19136-MW-8A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329004	19136-MW-8B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329005	19136-MW-9A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329006	19136-MW-9B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329007	19136-MW-12A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329008	19136-MW-12B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329009	19136-MW-13A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329010	19136-MW-13B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329011	19136-MW-22AR	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329012	19136-MW-22BR	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329013	19136-MW-24A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329014	19136-MW-24B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329015	19136-Dup-1	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329016	19136-TripBlank-5	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329017	19136-TripBlank-6	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329001	19136-MW-7A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329002	19136-MW-7B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329003	19136-MW-8A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329004	19136-MW-8B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329005	19136-MW-9A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329006	19136-MW-9B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329007	19136-MW-12A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329008	19136-MW-12B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329009	19136-MW-13A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329010	19136-MW-13B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329011	19136-MW-22AR	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329012	19136-MW-22BR	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329013	19136-MW-24A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329014	19136-MW-24B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642

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Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329015	19136-Dup-1	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329016	19136-TripBlank-5	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329017	19136-TripBlank-6	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642

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- ☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 3260
- ☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
- ☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
- ☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
- ☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 81

7,1597

J1906329

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6143
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Staples + Boone Abbott
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	1 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)

P.O. Number/Project Number:

Project Location:

FDEP Facility No: 89544

Project Name and Address: J.E.D. SWDF 1501 Omni Way St. Cloud, FL

Special Instructions: Jax Profile: 31172

■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
		BOTTLE SIZE & TYPE						40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
		ANALYSIS REQUIRED						App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19136-MW-7A		G	5/16/19	0832	GW	6		3	1	1	1							001
19136-MW-7B				0814														002
19136-MW-8A				0944														003
19136-MW-8B				0922														004
19136-MW-9A				1100														005
19136-MW-9B				1038														006
19136-MW-12A				1355														007
19136-MW-12B				1337														008
19136-MW-13A				1155														009
19136-MW-13B		G	5/16/19	1330	GW	6		3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/16/19	1630	FedEx	5/16/19	1630
2	FedEx	5-17-19	8:35	[illegible]	5-17-19	8:35
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site Address: _____

Advanced Environmental Laboratories, Inc.

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☒ Jacksonville: 6661 Southpoint Pkwy. • Jacksonville, FL 3221
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.88
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 323
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.63

J19063 29

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6141
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley + Brian Abbott
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 2 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1503
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3	LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic	
PRESERVATION							HCL	HNO3	Ice	H2SO4	
19136-MW-22AR		G	5/16/19	1232	GW	6	3	1	1	1	011
19136-MW-22BR		↓	↓	1210	↓	↓	↓	↓	↓	↓	012
19136-MW-24A		↓	↓	1408	↓	↓	↓	↓	↓	↓	013
19136-MW-24B		↓	↓	1346	↓	↓	↓	↓	↓	↓	014
19136-Dup-1		G	5/16/19	0001	GW	6	↓	1	1	1	015
19136-Trip Blank-5	Includes: 7A, 7B, 8A, 8B, 12A, 12B, Dup-1	–	–	–	DI H2O	3	↓				016
19136-Trip Blank-6	Includes: 9A, 9B, 12A, 12B, 22AR, 22BR, 24A, 24B.	–	–	–	DI H2O	3	3				017

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/16/19	1630	FedEx	5/16/19	1630
2	FedEx	5-17-19	8:35	[illegible]	5-17-19	8:35
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID
Contact Person Phone:
Supplier of Water
Site-Address

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D Landfill

Date/Time Rcvd: 5-17-19 8:35 Log-In request number: J19063 29

Received by: BA Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Mercury for J1906329001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The upper control criterion was exceeded for several analytes in the matrix spike analysis for J1906329007. The error associated with elevated recovery equates to a high bias.
The quality of the data is not significantly affected. The sample was J4 qualified accordingly and no further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for 1,2-Dibromo-3-Chloropropane in Continuing Calibration Verification (CCV) standards for analytical batch 3642, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The spike recovery of 1,2-Dibromo-3-Chloropropane for the Laboratory Control Sample (LCS) and Duplicate (LCSD) were outside the upper control criterion. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The upper control criterion was exceeded for 1,2-Dibromo-3-Chloropropane in the matrix spike for J1906329002. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc
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June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Saturday, May 18, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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SAMPLE SUMMARY

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906370001	19137-MW-10A	Water	5/17/2019 11:00	5/18/2019 10:05
J1906370002	19137-MW-10B	Water	5/17/2019 10:30	5/18/2019 10:05
J1906370003	19137-MW-11A	Water	5/17/2019 09:00	5/18/2019 10:05
J1906370004	19137-MW-11B	Water	5/17/2019 08:35	5/18/2019 10:05
J1906370005	19137-CW-2A	Water	5/17/2019 09:17	5/18/2019 10:05
J1906370006	19137-CW-3A	Water	5/17/2019 08:30	5/18/2019 10:05
J1906370007	19137-DUP-2	Water	5/17/2019 00:01	5/18/2019 10:05
J1906370008	19137-EQ-2	Water	5/17/2019 10:00	5/18/2019 10:05
J1906370009	19137-TripBlank-7	Water	5/17/2019 00:00	5/18/2019 10:05

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:20	J
Barium	**63**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:20	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:20	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:20	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:13	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:20	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:20	J
Iron	**17000**		**ug/L**	**1**	400	100	5/24/2019 13:20	J
Lead	**7.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:13	J
Nickel	**6.1**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:20	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:20	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:20	J
Sodium	**26**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:20	J
Vanadium	**3.2**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:13	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:20	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:12	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:12	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:05	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 10:24	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 10:24	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 10:24	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 10:24	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 10:24	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 10:24	J

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 10:24	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 10:24	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 10:24	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 10:24	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 10:24	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 10:24	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 10:24	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 10:24	J
Benzene	**4.3**		**ug/L**	**1**	1.0	0.16	5/31/2019 10:24	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 10:24	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 10:24	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 10:24	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 10:24	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 10:24	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 10:24	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 10:24	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 10:24	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 10:24	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 10:24	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 10:24	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 10:24	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 10:24	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/31/2019 10:24	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 10:24	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 10:24	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 10:24	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 10:24	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 10:24	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 10:24	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 10:24	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/31/2019 10:24	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 10:24	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 10:24	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 10:24	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 10:24	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 10:24	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		5/31/2019 10:24	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/31/2019 10:24	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/31/2019 10:24	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 10:24	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 10:24	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		5/31/2019 10:24	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 10:24	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 10:24	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**24**		**mg/L**	**2**	10	1.0	5/18/2019 14:11	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 14:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**22**		**mg/L**	**50**	0.50	0.40	5/28/2019 15:34	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**640**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:23	J
Barium	**38**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:23	J
Beryllium	**2.0**		**ug/L**	**1**	2.0	0.50	5/24/2019 13:23	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:23	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:17	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**7.0**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:23	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:23	J
Iron	**12000**		**ug/L**	**1**	400	100	5/24/2019 13:23	J
Lead	**4.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:23	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:23	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:23	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:23	J
Vanadium	**4.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:17	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:34	J
Thallium	**0.067**	**I**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:34	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:08	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 09:55	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 09:55	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 09:55	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 09:55	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 09:55	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 09:55	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 09:55	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 09:55	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 09:55	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 09:55	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 09:55	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 09:55	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 09:55	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 09:55	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**7.6**		**ug/L**	**1**	1.0	0.16	5/31/2019 09:55	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 09:55	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 09:55	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 09:55	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 09:55	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 09:55	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:55	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 09:55	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:55	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 09:55	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:55	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 09:55	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 09:55	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 09:55	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/31/2019 09:55	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:55	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:55	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:55	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 09:55	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 09:55	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 09:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:55	J
Xylene (Total)	**1.2**	**I**	**ug/L**	**1**	3.0	0.53	5/31/2019 09:55	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 09:55	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:55	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:55	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 09:55	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 09:55	J
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	70-128		5/31/2019 09:55	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		5/31/2019 09:55	
Bromofluorobenzene (S)	**117**		**%**	**1**	86-123		5/31/2019 09:55	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 09:55	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 09:55	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		5/31/2019 09:55	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		5/31/2019 09:55	
Bromofluorobenzene (S)	**123**		**%**	**1**	80-129		5/31/2019 09:55	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**2**	10	1.0	5/18/2019 14:33	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 14:33	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.7**		**mg/L**	**20**	0.20	0.16	5/28/2019 15:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**920**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:34	J
Barium	**22**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:34	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:34	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:34	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:28	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:34	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:34	J
Iron	**8100**		**ug/L**	**1**	400	100	5/24/2019 13:34	J
Lead	**7.9**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:28	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:34	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:34	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:34	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:34	J
Vanadium	**6.8**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:28	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:34	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.14**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:38	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:11	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 12:01	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 12:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 12:01	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 12:01	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 12:01	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 12:01	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 12:01	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 12:01	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 12:01	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 12:01	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 12:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 12:01	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 12:01	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 12:01	J
Benzene	**1.8**	**Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:01	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 12:01	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 12:01	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 12:01	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 12:01	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 12:01	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:01	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 12:01	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:01	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 12:01	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:01	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 12:01	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 12:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 12:01	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 12:01	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:01	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:01	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:01	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 12:01	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 12:01	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 12:01	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:01	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 12:01	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 12:01	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:01	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:01	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 12:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 12:01	J
1,2-Dichloroethane-d4 (S)	**112**	**Q**	**%**	**1**	70-128		5/31/2019 12:01	
Toluene-d8 (S)	**105**	**Q**	**%**	**1**	77-119		5/31/2019 12:01	
Bromofluorobenzene (S)	**118**	**Q**	**%**	**1**	86-123		5/31/2019 12:01	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q,J4**	**ug/L**	**1**	0.20	0.11	5/31/2019 12:01	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 12:01	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/31/2019 12:01	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 12:01	
Bromofluorobenzene (S)	**124**		**%**	**1**	80-129		5/31/2019 12:01	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/18/2019 14:54	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 14:54	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.1**		**mg/L**	**10**	0.10	0.080	5/28/2019 15:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**380**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:37	J
Barium	**17**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:37	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:37	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:32	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:37	J
Iron	**360**	**I**	**ug/L**	**1**	400	100	5/24/2019 13:37	J
Lead	**4.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:37	J
Sodium	**16**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:37	J
Vanadium	**2.3**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:14	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 12:30	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 12:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 12:30	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 12:30	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 12:30	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 12:30	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 12:30	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 12:30	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 12:30	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 12:30	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 12:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 12:30	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 12:30	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 12:30	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:30	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 12:30	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 12:30	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 12:30	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 12:30	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 12:30	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:30	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 12:30	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:30	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 12:30	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:30	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 12:30	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 12:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 12:30	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 12:30	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:30	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:30	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:30	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 12:30	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 12:30	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 12:30	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:30	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 12:30	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 12:30	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:30	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:30	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 12:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 12:30	J
1,2-Dichloroethane-d4 (S)	**115**	**Q**	**%**	**1**	70-128		5/31/2019 12:30	
Toluene-d8 (S)	**104**	**Q**	**%**	**1**	77-119		5/31/2019 12:30	
Bromofluorobenzene (S)	**114**	**Q**	**%**	**1**	86-123		5/31/2019 12:30	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 12:30	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 12:30	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		5/31/2019 12:30	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		5/31/2019 12:30	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 12:30	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/18/2019 15:15	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 15:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.04**		**mg/L**	**1**	0.010	0.0080	5/28/2019 15:37	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**82**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:41	J
Barium	**70**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:41	J
Chromium	**4.5**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:36	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:41	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:41	J
Iron	**180**	**I**	**ug/L**	**1**	400	100	5/24/2019 13:41	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:36	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:41	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:41	J
Sodium	**180**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:41	J
Vanadium	**23**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:18	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 13:07	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 13:07	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 13:07	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 13:07	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 13:07	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 13:07	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 13:07	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 13:07	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 13:07	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 13:07	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 13:07	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 13:07	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 13:07	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 13:07	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:07	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 13:07	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 13:07	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 13:07	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 13:07	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 13:07	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:07	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 13:07	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:07	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 13:07	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:07	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 13:07	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 13:07	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 13:07	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 13:07	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:07	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:07	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:07	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 13:07	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 13:07	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 13:07	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:07	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 13:07	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 13:07	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:07	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:07	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 13:07	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 13:07	J
1,2-Dichloroethane-d4 (S)	**112**	**Q**	**%**	**1**	70-128		5/31/2019 13:07	
Toluene-d8 (S)	**105**	**Q**	**%**	**1**	77-119		5/31/2019 13:07	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**	**Q**	**%**	**1**	86-123		5/31/2019 13:07	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 13:07	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 13:07	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/31/2019 13:07	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 13:07	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 13:07	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**320**		**mg/L**	**10**	50	5.0	5/18/2019 15:57	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/18/2019 15:57	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**18**		**mg/L**	**20**	0.20	0.16	5/28/2019 14:27	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:44	J
Barium	**51**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:44	J
Beryllium	**1.0**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:44	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:44	J
Chromium	**14**		**ug/L**	**1**	8.0	2.0	5/28/2019 13:39	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:44	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:44	J
Iron	**4900**		**ug/L**	**1**	400	100	5/24/2019 13:44	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:39	J
Nickel	**7.8**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:44	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:44	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:44	J
Sodium	**310**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:44	J
Vanadium	**33**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:39	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:44	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.26**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:27	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 13:36	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 13:36	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 13:36	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 13:36	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 13:36	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 13:36	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 13:36	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 13:36	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 13:36	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 13:36	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 13:36	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 13:36	J
Acetone	**7.7**	**Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 13:36	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 13:36	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:36	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 13:36	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 13:36	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 13:36	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 13:36	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 13:36	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:36	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 13:36	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:36	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 13:36	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:36	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 13:36	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 13:36	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 13:36	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 13:36	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:36	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:36	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:36	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 13:36	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 13:36	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 13:36	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:36	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 13:36	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 13:36	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:36	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:36	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 13:36	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 13:36	J
1,2-Dichloroethane-d4 (S)	**117**	**Q**	**%**	**1**	70-128		5/31/2019 13:36	
Toluene-d8 (S)	**106**	**Q**	**%**	**1**	77-119		5/31/2019 13:36	
Bromofluorobenzene (S)	**115**	**Q**	**%**	**1**	86-123		5/31/2019 13:36	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 13:36	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 13:36	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		5/31/2019 13:36	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		5/31/2019 13:36	
Bromofluorobenzene (S)	**121**		**%**	**1**	80-129		5/31/2019 13:36	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**580**		**mg/L**	**20**	100	10	5/18/2019 16:18	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/18/2019 16:18	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**14**		**mg/L**	**20**	0.20	0.16	5/28/2019 14:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:48	J
Barium	**38**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:48	J
Beryllium	**2.1**		**ug/L**	**1**	2.0	0.50	5/24/2019 13:48	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:48	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:43	J
Cobalt	**6.7**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:48	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:48	J
Iron	**12000**		**ug/L**	**1**	400	100	5/24/2019 13:48	J
Lead	**4.6**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:43	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:48	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:48	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:48	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:48	J
Vanadium	**4.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:48	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 16:05	J
Thallium	**0.066**	**I**	**ug/L**	**1**	0.20	0.057	5/30/2019 16:05	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:31	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 14:13	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 14:13	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 14:13	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 14:13	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 14:13	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 14:13	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 14:13	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 14:13	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 14:13	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 14:13	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 14:13	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 14:13	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 14:13	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 14:13	J
Benzene	**7.2**	**Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:13	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 14:13	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 14:13	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 14:13	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 14:13	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 14:13	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:13	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 14:13	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:13	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 14:13	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:13	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 14:13	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 14:13	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 14:13	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 14:13	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:13	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:13	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:13	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 14:13	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 14:13	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 14:13	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:13	J
Xylene (Total)	**1.2**	**I,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 14:13	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 14:13	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:13	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:13	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 14:13	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 14:13	J
1,2-Dichloroethane-d4 (S)	**110**	**Q**	**%**	**1**	70-128		5/31/2019 14:13	
Toluene-d8 (S)	**104**	**Q**	**%**	**1**	77-119		5/31/2019 14:13	
Bromofluorobenzene (S)	**113**	**Q**	**%**	**1**	86-123		5/31/2019 14:13	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 14:13	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 14:13	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		5/31/2019 14:13	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		5/31/2019 14:13	
Bromofluorobenzene (S)	**118**		**%**	**1**	80-129		5/31/2019 14:13	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**2**	10	1.0	5/18/2019 16:39	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 16:39	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.6**		**mg/L**	**10**	0.10	0.080	5/28/2019 14:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**950**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:51	J
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:51	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:51	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:51	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:47	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:51	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:51	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/24/2019 13:51	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:47	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:51	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:51	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:51	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	5/24/2019 13:51	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:47	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:51	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 16:09	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 16:09	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:34	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 09:18	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 09:18	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 09:18	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 09:18	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 09:18	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 09:18	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 09:18	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 09:18	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 09:18	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 09:18	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 09:18	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 09:18	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 09:18	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 09:18	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:18	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 09:18	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 09:18	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 09:18	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 09:18	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 09:18	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:18	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 09:18	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:18	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 09:18	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:18	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 09:18	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 09:18	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 09:18	J
Methylene Chloride	**7.8**		**ug/L**	**1**	5.0	2.5	5/31/2019 09:18	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:18	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:18	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:18	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 09:18	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 09:18	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 09:18	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:18	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/31/2019 09:18	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 09:18	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:18	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:18	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 09:18	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 09:18	J
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	70-128		5/31/2019 09:18	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/31/2019 09:18	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/31/2019 09:18	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 09:18	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 09:18	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		5/31/2019 09:18	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 09:18	
Bromofluorobenzene (S)	**120**		**%**	**1**	80-129		5/31/2019 09:18	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	5/18/2019 17:00	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 17:00	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	5/28/2019 14:31	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370009** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-TripBlank-7** Date Collected: 05/17/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 14:43	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 14:43	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 14:43	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 14:43	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 14:43	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 14:43	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 14:43	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 14:43	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 14:43	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 14:43	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 14:43	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 14:43	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 14:43	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 14:43	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:43	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 14:43	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 14:43	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 14:43	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 14:43	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 14:43	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:43	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 14:43	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:43	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 14:43	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:43	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 14:43	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 14:43	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 14:43	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 14:43	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:43	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:43	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:43	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 14:43	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370009** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-TripBlank-7** Date Collected: 05/17/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 14:43	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 14:43	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:43	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 14:43	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 14:43	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:43	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:43	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 14:43	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 14:43	J
1,2-Dichloroethane-d4 (S)	**110**	**Q**	**%**	**1**	70-128		5/31/2019 14:43	
Toluene-d8 (S)	**107**	**Q**	**%**	**1**	77-119		5/31/2019 14:43	
Bromofluorobenzene (S)	**110**	**Q**	**%**	**1**	86-123		5/31/2019 14:43	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 14:43	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 14:43	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		5/31/2019 14:43	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		5/31/2019 14:43	
Bromofluorobenzene (S)	**116**		**%**	**1**	80-129		5/31/2019 14:43	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Q	Missed Hold Time
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5010 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3101111

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3101112 3101113

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	109	109	90-110	0	10	
Nitrate (as N)	mg/L	2	2.2	2.1	110	107	90-110	3	10	

MATRIX SPIKE SAMPLE: 3101114 Original: J1906370004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	29	20	49	97	90-110	
Nitrate (as N)	mg/L	0	2	2.2	108	90-110	

QC Batch: DGMj/3437 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30
Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	2.2	1.0	I

LABORATORY CONTROL SAMPLE: 3103535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	180	89	80-120	
Barium	ug/L	20	19	94	80-120	
Beryllium	ug/L	10	8.7	87	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	38	94	80-120	
Chromium	ug/L	40	36	90	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1800	89	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	110	94	80-120	
Lead	ug/L	60	57	95	80-120	
Selenium	ug/L	800	730	91	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	910	91	80-120	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103536 3103537 Original: J1906272015

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	93	95	75-125	1	20	
Arsenic	ug/L	0	200	190	190	94	95	75-125	1	20	
Barium	ug/L	65	20	82	84	89	97	75-125	2	20	
Beryllium	ug/L	0	10	9.3	9.5	93	95	75-125	2	20	
Cadmium	ug/L	1.7	20	20	21	93	95	75-125	1	20	
Cobalt	ug/L	0.7	40	38	38	94	95	75-125	1	20	
Chromium	ug/L	1	40	38	40	94	100	75-125	6	20	
Copper	ug/L	2	80	72	75	90	94	75-125	4	20	
Iron	ug/L	640	2000	2500	2500	93	95	75-125	2	20	
Sodium	mg/L	75	7	80	82	79	102	75-125	2	20	
Nickel	ug/L	9.2	120	120	120	93	95	75-125	2	20	
Lead	ug/L	3.7	60	58	57	90	89	75-125	1	20	
Selenium	ug/L	0	800	750	760	94	95	75-125	1	20	
Vanadium	ug/L	7.7	20	25	25	86	88	75-125	2	20	
Zinc	ug/L	10	1000	950	960	95	96	75-125	2	20	

QC Batch: WCAj/5032 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3104463

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3104464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

SAMPLE DUPLICATE: 3104465 Original: J1906329006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	400	380	3	10	

QC Batch: DGMj/3456 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3106520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	2.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106522 3106523 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.0037	2	2.1	2.1	104	105	80-120	1	20	

QC Batch: DGMj/3459 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/29/2019 03:30

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3108170

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108170

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3108171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	46	93	80-120	
Thallium	ug/L	50	43	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108172 3108173 Original: J1906370001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.035	50	49	50	99	99	75-125	1	20	
Thallium	ug/L	0.016	50	46	47	92	94	75-125	2	20	

QC Batch: WCAg/6600 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3108183

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3108184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3108184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ammonia (N)	mg/L	0.5	0.51	102	90-110	

LABORATORY CONTROL SAMPLE: 3108186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108187 3108188 Original: J1906370001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	22	20	41	41	96	96	90-110	0	10	

QC Batch: MSVj/3659 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/31/2019 08:43

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008,

METHOD BLANK: 3112243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3112243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	115	70-128	
Toluene-d8 (S)	%	104	77-119	
Bromofluorobenzene (S)	%	114	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	16	18	82	89		8		
Vinyl Chloride	ug/L	20	17	17	86	85	70-130	1	20	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromomethane	ug/L	20	21	16	105	78		30		
Chloroethane	ug/L	20	19	17	95	85		12		
Trichlorofluoromethane	ug/L	20	19	15	95	73		27		
Acetone	ug/L	20	17	17	83	83		0		
1,1-Dichloroethylene	ug/L	20	20	14	100	72	70-130	32	20	
Iodomethane (Methyl Iodide)	ug/L	20	15	13	76	66		14		
Acrylonitrile	ug/L	20	14	15	72	77		7		
Methylene Chloride	ug/L	20	21	20	104	102		2		
Carbon Disulfide	ug/L	20	17	19	87	97		10		
trans-1,2-Dichloroethylene	ug/L	20	20	14	99	72		32		
1,1-Dichloroethane	ug/L	20	20	15	100	75		28		
Vinyl Acetate	ug/L	20	7.5	14	38	71		62		
2-Butanone (MEK)	ug/L	20	15	15	77	76		2		
cis-1,2-Dichloroethylene	ug/L	20	18	14	92	72	70-130	24	20	
Bromochloromethane	ug/L	20	19	19	94	94		1		
Chloroform	ug/L	20	18	17	89	85	70-130	5	20	
1,2-Dichloroethane	ug/L	20	20	13	101	66		42		
1,1,1-Trichloroethane	ug/L	20	20	15	99	76		26		
Carbon Tetrachloride	ug/L	20	19	18	96	88		9		
Benzene	ug/L	20	19	19	94	95	70-130	1	20	
Dibromomethane	ug/L	20	18	16	88	81		8		
1,2-Dichloropropane	ug/L	20	20	16	99	78		25		
Trichloroethene	ug/L	20	22	16	108	79	70-130	31	20	
Bromodichloromethane	ug/L	20	18	18	90	90		0		
cis-1,3-Dichloropropene	ug/L	20	16	18	82	92		12		
4-Methyl-2-pentanone (MIBK)	ug/L	20	14	13	72	67		7		
trans-1,3-Dichloropropylene	ug/L	20	16	18	79	89		12		
1,1,2-Trichloroethane	ug/L	20	17	16	86	81		6		
Toluene	ug/L	20	20	17	101	86	70-130	16	20	
2-Hexanone	ug/L	20	17	15	85	76		11		
Dibromochloromethane	ug/L	20	20	20	102	100		2		
Tetrachloroethylene (PCE)	ug/L	20	20	21	102	105	70-130	2	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	20	102	98		4		
Chlorobenzene	ug/L	20	20	20	103	101	70-130	2	20	
Ethylbenzene	ug/L	20	22	18	109	88	70-130	22	20	
Bromoform	ug/L	20	18	21	91	105		14		
Styrene	ug/L	20	20	18	101	90		11		
1,1,2,2-Tetrachloroethane	ug/L	20	14	18	71	90		24		
1,2,3-Trichloropropane	ug/L	20	17	19	84	93		10		
1,4-Dichlorobenzene	ug/L	20	21	21	107	105		2		
1,2-Dichlorobenzene	ug/L	20	23	21	115	105	70-130	10	20	
Xylene (Total)	ug/L	60	66	53	109	88	70-130	22	20	
1,2-Dichloroethane-d4 (S)	%				110	77	70-128	35		
Toluene-d8 (S)	%				108	98	77-119	10		

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromofluorobenzene (S)	%				110	90	86-123	20		

QC Batch: MSVj/3661 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/31/2019 07:00

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008,

METHOD BLANK: 3112251

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	109	80-121	
Bromofluorobenzene (S)	%	117	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3112252 3112253

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.79	0.90	99	113	70-130	13	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.79	0.74	99	93	70-130	7	30	
1,2-Dichloroethane-d4 (S)	%				96	106	77-125	10		
Toluene-d8 (S)	%				113	101	80-121	11		
Bromofluorobenzene (S)	%				118	106	80-129	11		

MATRIX SPIKE SAMPLE: 3112254 Original: J1906370003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.76	95	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	1.2	144	70-130	
1,2-Dichloroethane-d4 (S)	%	92			106	77-125	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3112254 Original: J1906370003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%	110			103	80-121	
Bromofluorobenzene (S)	%	124			110	80-129	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

V Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370001	19137-MW-10A			EPA 300.0	WCAj/5010
J1906370002	19137-MW-10B			EPA 300.0	WCAj/5010
J1906370003	19137-MW-11A			EPA 300.0	WCAj/5010
J1906370004	19137-MW-11B			EPA 300.0	WCAj/5010
J1906370005	19137-CW-2A			EPA 300.0	WCAj/5010
J1906370006	19137-CW-3A			EPA 300.0	WCAj/5010
J1906370007	19137-DUP-2			EPA 300.0	WCAj/5010
J1906370008	19137-EQ-2			EPA 300.0	WCAj/5010
J1906370001	19137-MW-10A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370002	19137-MW-10B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370003	19137-MW-11A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370004	19137-MW-11B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370005	19137-CW-2A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370006	19137-CW-3A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370007	19137-DUP-2	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370008	19137-EQ-2	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370001	19137-MW-10A			SM 2540 C	WCAj/5032
J1906370002	19137-MW-10B			SM 2540 C	WCAj/5032
J1906370003	19137-MW-11A			SM 2540 C	WCAj/5032
J1906370004	19137-MW-11B			SM 2540 C	WCAj/5032
J1906370005	19137-CW-2A			SM 2540 C	WCAj/5032
J1906370006	19137-CW-3A			SM 2540 C	WCAj/5032
J1906370007	19137-DUP-2			SM 2540 C	WCAj/5032
J1906370008	19137-EQ-2			SM 2540 C	WCAj/5032
J1906370001	19137-MW-10A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370002	19137-MW-10B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370003	19137-MW-11A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370004	19137-MW-11B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370005	19137-CW-2A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370006	19137-CW-3A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370007	19137-DUP-2	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370008	19137-EQ-2	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370001	19137-MW-10A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370002	19137-MW-10B	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370003	19137-MW-11A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370004	19137-MW-11B	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370005	19137-CW-2A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370006	19137-CW-3A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370007	19137-DUP-2	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370008	19137-EQ-2	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370001	19137-MW-10A			EPA 350.1	WCAg/6600
J1906370002	19137-MW-10B			EPA 350.1	WCAg/6600
J1906370003	19137-MW-11A			EPA 350.1	WCAg/6600
J1906370004	19137-MW-11B			EPA 350.1	WCAg/6600
J1906370005	19137-CW-2A			EPA 350.1	WCAg/6600
J1906370006	19137-CW-3A			EPA 350.1	WCAg/6600
J1906370007	19137-DUP-2			EPA 350.1	WCAg/6600
J1906370008	19137-EQ-2			EPA 350.1	WCAg/6600
J1906370001	19137-MW-10A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370002	19137-MW-10B	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370003	19137-MW-11A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370004	19137-MW-11B	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370005	19137-CW-2A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370006	19137-CW-3A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370007	19137-DUP-2	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370008	19137-EQ-2	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370009	19137-TripBlank-7	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370001	19137-MW-10A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370002	19137-MW-10B	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370003	19137-MW-11A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370004	19137-MW-11B	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370005	19137-CW-2A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370006	19137-CW-3A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370007	19137-DUP-2	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370008	19137-EQ-2	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370009	19137-TripBlank-7	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

J1906370

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-968-6141
FAX:	
Contact:	Kirk Wills
Sampled By:	Nick Stapley & Boone Abbott
Turn Around Time:	☒ STANDARD ☐ RUSH
Page 1 of 1	

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP (40 mL Vials)	App I Metals+Fe,Hg,Na (500 mL Plastic)	Cl/NO3/TDS (500 mL Plastic)	NH3 (250 mL Plastic)	LABORATORY I.D. NUMBER
19137-MW-10A		G	5/17/19	11:00	GW	6	3	1	1	1	001
19137-MW-10B				10:30							002
19137-MW-11A				09:00							003
19137-MW-11B				08:35							004
19137-CW-2A				09:17							005
19137-CW-3A				08:30							006
19137-Dup-2				0001	GW						007
19137-EQ-2		G	5/17/19	10:00	DI H_2O	6		1	1	1	008
19137-TripBlank-7		—	—	—	DI H_2O	3	3				009

PRESERVATION: HCL | HNO3 | Ice | H2SO4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/17/19	1300	Fed Ex	5/17/19	1300
2	Fed Ex	5-18-19	10:05	[illegible]	5-18-19	10:05
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: Waste Connections
Project name: J-ED Landfill F/R/A Oak Hammock Disposal
Date/Time Rcvd: 5-18-19 10:05
Log-In request number: J1906370
Received by: BY
Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

One of the trip blank vials was received broken.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Fax (904) 363-9354

Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below the Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: The analysis of J1906370003, -004, -005, -006, -007, and -009 was initially performed past the recommended holding time. An internal laboratory failure occurred which resulted in the missed holding time. Efforts were made to analyze the sample as soon as the error was identified. The data is qualified to indicate the holding time violation.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for several analytes between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3112244 in comparison with 3112245. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The matrix spike (MS) recoveries of several analytes for J1906370008 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: J1906635012 was analyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

J1906635003 was reanalyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

G. Other:

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Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: The analysis of J1906370003, -004, -005, -006, -007, and -009 was initially performed past the recommended holding time. An internal laboratory failure occurred which resulted in the missed holding time. Efforts were made to analyze the sample as soon as the error was identified. The data is qualified to indicate the holding time violation.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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December 13, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 20, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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Phone: (904)363-9350
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SAMPLE SUMMARY

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1915228001	19323-CW-1A	Water	11/19/2019 08:54	11/20/2019 09:50
J1915228002	19323-MW-16AR	Water	11/19/2019 14:56	11/20/2019 09:50
J1915228003	19323-MW-16BR	Water	11/19/2019 15:30	11/20/2019 09:50
J1915228004	19323-MW-17AR	Water	11/19/2019 13:22	11/20/2019 09:50
J1915228005	19323-MW-17BR	Water	11/19/2019 14:00	11/20/2019 09:50
J1915228006	19323-MW-22AR	Water	11/19/2019 13:26	11/20/2019 09:50
J1915228007	19323-MW-22BR	Water	11/19/2019 13:08	11/20/2019 09:50
J1915228008	19323-MW-23A	Water	11/19/2019 14:56	11/20/2019 09:50
J1915228009	19323-MW-23B	Water	11/19/2019 14:12	11/20/2019 09:50
J1915228010	19323-MW-27A	Water	11/19/2019 08:45	11/20/2019 09:50
J1915228011	19323-MW-27B	Water	11/19/2019 09:28	11/20/2019 09:50
J1915228012	19323-MW-28A	Water	11/19/2019 10:30	11/20/2019 09:50
J1915228013	19323-MW-28B	Water	11/19/2019 11:20	11/20/2019 09:50
J1915228014	19323-MW-29A	Water	11/19/2019 12:00	11/20/2019 09:50
J1915228015	19323-MW-29B	Water	11/19/2019 12:38	11/20/2019 09:50
J1915228016	19323-MW-30A	Water	11/19/2019 11:46	11/20/2019 09:50
J1915228017	19323-MW-30B	Water	11/19/2019 12:02	11/20/2019 09:50
J1915228018	19323-Trip Blank-1	Water	11/19/2019 00:00	11/20/2019 09:50
J1915228019	19323-Trip Blank-2	Water	11/19/2019 00:00	11/20/2019 09:50

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228001** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-CW-1A** Date Collected: 11/19/19 08:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**54**		**ug/L**	**1**	4.0	1.0	11/26/2019 22:54	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 22:54	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 22:54	J
Chromium	**5.8**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 22:54	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 22:54	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:04	J
Iron	**8000**		**ug/L**	**1**	400	100	11/26/2019 22:54	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 22:54	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 22:54	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 22:54	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 22:54	J
Sodium	**24**		**mg/L**	**1**	1.4	0.35	11/26/2019 22:54	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 22:54	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 22:26	J
Arsenic	**150**		**ug/L**	**5**	5.0	0.39	12/10/2019 13:37	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 22:26	J
Vanadium	**4.3**		**ug/L**	**1**	2.0	0.71	12/3/2019 22:26	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:29	J
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**35**	**J4**	**mg/L**	**1**	5.0	0.50	11/20/2019 20:52	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/20/2019 20:52	J
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 21:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 21:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 21:34	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228001** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-CW-1A** Date Collected: 11/19/19 08:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 21:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 21:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 21:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 21:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 21:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 21:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 21:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 21:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 21:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 21:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 21:34	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 21:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 21:34	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 21:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 21:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 21:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 21:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 21:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 21:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 21:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 21:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 21:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 21:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 21:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 21:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 21:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 21:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 21:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 21:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 21:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 21:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 21:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 21:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 21:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 21:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 21:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 21:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 21:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 21:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 21:34	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228001** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-CW-1A** Date Collected: 11/19/19 08:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 21:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 21:34	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/26/2019 21:34	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		11/26/2019 21:34	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		11/26/2019 21:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 21:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 21:34	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/26/2019 21:34	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		11/26/2019 21:34	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		11/26/2019 21:34	
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**340**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

Lab ID: **J1915228002** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-16AR** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**34**		**ug/L**	**1**	4.0	1.0	11/26/2019 22:58	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 22:58	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 22:58	J
Chromium	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 22:58	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 22:58	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228002** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-16AR** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:07	J
Iron	**560**		**ug/L**	**1**	400	100	11/26/2019 22:58	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 22:58	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 22:58	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 22:58	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 22:58	J
Sodium	**140**		**mg/L**	**1**	1.4	0.35	11/26/2019 22:58	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 22:58	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.21**	**I**	**ug/L**	**1**	0.70	0.11	12/3/2019 22:54	J
Arsenic	**1.9**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:41	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 22:54	J
Vanadium	**13**		**ug/L**	**1**	2.0	0.71	12/3/2019 22:54	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**I**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:46	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 22:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 22:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 22:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 22:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 22:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 22:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 22:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 22:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 22:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 22:04	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 22:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 22:04	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228002** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-16AR** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**1.3**		**ug/L**	**1**	1.0	0.16	11/26/2019 22:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 22:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 22:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 22:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 22:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 22:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 22:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 22:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 22:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 22:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 22:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 22:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 22:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 22:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 22:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 22:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 22:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 22:04	J
cis-1,2-Dichloroethylene	**0.43**	**I**	**ug/L**	**1**	1.0	0.24	11/26/2019 22:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 22:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 22:04	J
1,2-Dichloroethane-d4 (S)	**105**		**%**	**1**	70-128		11/26/2019 22:04	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		11/26/2019 22:04	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/26/2019 22:04	

Analysis Desc: 8260B SIM Analysis, Water
Preparation Method: SW-846 5030B
Analytical Method: SW-846 8260B (SIM)

1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 22:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 22:04	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/26/2019 22:04	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		11/26/2019 22:04	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/26/2019 22:04	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228002** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-16AR** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**210**		**mg/L**	**2**	10	1.0	11/20/2019 21:38	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/20/2019 21:38	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**10**	0.10	0.080	11/26/2019 16:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**760**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

Lab ID: **J1915228003** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-16BR** Date Collected: 11/19/19 15:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**38**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:03	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:03	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:03	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:03	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:03	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:11	J
Iron	**2500**		**ug/L**	**1**	400	100	11/26/2019 23:03	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:03	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:03	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:03	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:03	J
Sodium	**7.6**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:03	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:03	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228003** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-16BR** Date Collected: 11/19/19 15:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 22:58	J
Arsenic	**0.40**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 13:45	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 22:58	J
Vanadium	**0.71**	**U**	**ug/L**	**1**	2.0	0.71	12/3/2019 22:58	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:49	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 22:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 22:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 22:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 22:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 22:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 22:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 22:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 22:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 22:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 22:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 22:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 22:40	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 22:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 22:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 22:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 22:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 22:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 22:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 22:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 22:40	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228003** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-16BR** Date Collected: 11/19/19 15:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 22:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 22:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 22:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 22:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 22:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 22:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 22:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 22:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 22:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 22:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 22:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 22:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 22:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 22:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 22:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 22:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 22:40	J
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-128		11/26/2019 22:40	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		11/26/2019 22:40	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		11/26/2019 22:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 22:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 22:40	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/26/2019 22:40	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		11/26/2019 22:40	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/26/2019 22:40	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**25**		**mg/L**	**1**	5.0	0.50	11/20/2019 22:01	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/20/2019 22:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.30**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:15	G

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228003** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-16BR** Date Collected: 11/19/19 15:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**76**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

Lab ID: **J1915228004** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-17AR** Date Collected: 11/19/19 13:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**59**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:07	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:07	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:07	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:07	J
Cobalt	**2.4**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:07	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:14	J
Iron	**14000**		**ug/L**	**1**	400	100	11/26/2019 23:07	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:07	J
Nickel	**7.6**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 23:07	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:07	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:07	J
Sodium	**71**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:07	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.34**	**I**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:02	J
Arsenic	**1.2**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:02	J
Vanadium	**5.8**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228004** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-17AR** Date Collected: 11/19/19 13:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:52	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 23:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 23:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 23:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 23:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:10	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 23:10	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:10	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 23:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 23:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 23:10	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 23:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 23:10	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 23:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 23:10	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 23:10	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 23:10	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 23:10	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 23:10	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 23:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 23:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 23:10	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 23:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 23:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 23:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 23:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 23:10	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228004** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-17AR** Date Collected: 11/19/19 13:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 23:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 23:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 23:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 23:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 23:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:10	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 23:10	J
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-128		11/26/2019 23:10	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		11/26/2019 23:10	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		11/26/2019 23:10	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 23:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 23:10	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/26/2019 23:10	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		11/26/2019 23:10	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/26/2019 23:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**110**		**mg/L**	**1**	5.0	0.50	11/20/2019 22:24	J
Nitrate (as N)	**0.73**		**mg/L**	**1**	0.50	0.050	11/20/2019 22:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.7**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**620**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228005** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-17BR** Date Collected: 11/19/19 14:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**18**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:21	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:21	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:21	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:21	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:21	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:17	J
Iron	**560**		**ug/L**	**1**	400	100	11/26/2019 23:21	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:21	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:21	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:21	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:21	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:21	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:21	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:07	J
Arsenic	**0.63**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 13:53	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:07	J
Vanadium	**1.1**	**I**	**ug/L**	**1**	2.0	0.71	12/3/2019 23:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:55	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 23:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 23:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 23:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 23:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 23:46	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228005** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-17BR** Date Collected: 11/19/19 14:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 23:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 23:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 23:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 23:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 23:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 23:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 23:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 23:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 23:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 23:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 23:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 23:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 23:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 23:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 23:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 23:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 23:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 23:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 23:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 23:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 23:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 23:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 23:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 23:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 23:46	J
cis-1,2-Dichloroethylene	**0.47**	**I**	**ug/L**	**1**	1.0	0.24	11/26/2019 23:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 23:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 23:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 23:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 23:46	J
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	70-128		11/26/2019 23:46	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		11/26/2019 23:46	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228005** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-17BR** Date Collected: 11/19/19 14:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		11/26/2019 23:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 23:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 23:46	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/26/2019 23:46	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		11/26/2019 23:46	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/26/2019 23:46	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**13**		**mg/L**	**1**	5.0	0.50	11/20/2019 22:48	J
Nitrate (as N)	**0.076**	**I**	**mg/L**	**1**	0.50	0.050	11/20/2019 22:48	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.18**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:15	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**81**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

Lab ID: **J1915228006** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-22AR** Date Collected: 11/19/19 13:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**68**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:25	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:25	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:25	J
Chromium	**2.7**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:25	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:25	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228006** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-22AR** Date Collected: 11/19/19 13:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:21	J
Iron	**20000**		**ug/L**	**1**	400	100	11/26/2019 23:25	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:25	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:25	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:25	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:25	J
Sodium	**32**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:25	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:25	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:11	J
Arsenic	**2.3**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:57	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:11	J
Vanadium	**3.1**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:11	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 13:59	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 00:16	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 00:16	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:16	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 00:16	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 00:16	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:16	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 00:16	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:16	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:16	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 00:16	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 00:16	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 00:16	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 00:16	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 00:16	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 00:16	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 00:16	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228006** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-22AR** Date Collected: 11/19/19 13:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:16	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 00:16	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 00:16	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 00:16	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 00:16	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 00:16	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 00:16	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:16	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 00:16	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:16	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:16	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 00:16	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 00:16	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 00:16	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:16	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 00:16	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:16	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 00:16	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:16	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 00:16	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 00:16	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 00:16	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:16	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 00:16	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 00:16	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:16	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:16	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:16	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 00:16	J
1,2-Dichloroethane-d4 (S)	**105**		**%**	**1**	70-128		11/27/2019 00:16	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		11/27/2019 00:16	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/27/2019 00:16	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 00:16	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 00:16	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/27/2019 00:16	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		11/27/2019 00:16	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/27/2019 00:16	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228006** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-22AR** Date Collected: 11/19/19 13:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**77**		**mg/L**	**1**	5.0	0.50	11/20/2019 23:11	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/20/2019 23:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.3**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**610**		**mg/L**	**1**	10	10	11/24/2019 09:00	J

Lab ID: **J1915228007** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-22BR** Date Collected: 11/19/19 13:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**14**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:30	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:30	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:30	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:30	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:30	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:24	J
Iron	**1100**		**ug/L**	**1**	400	100	11/26/2019 23:30	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:30	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:30	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:30	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:30	J
Sodium	**6.9**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:30	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:30	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228007** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-22BR** Date Collected: 11/19/19 13:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:26	J
Arsenic	**0.27**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:01	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:26	J
Vanadium	**0.97**	**I**	**ug/L**	**1**	2.0	0.71	12/3/2019 23:26	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:02	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 00:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 00:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 00:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 00:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 00:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 00:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 00:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 00:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 00:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 00:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 00:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 00:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 00:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 00:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 00:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 00:53	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 00:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 00:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 00:53	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228007** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-22BR** Date Collected: 11/19/19 13:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 00:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 00:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 00:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 00:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 00:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 00:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 00:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 00:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 00:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 00:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 00:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 00:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 00:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 00:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 00:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 00:53	J
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	70-128		11/27/2019 00:53	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		11/27/2019 00:53	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		11/27/2019 00:53	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 00:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 00:53	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/27/2019 00:53	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		11/27/2019 00:53	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		11/27/2019 00:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**14**		**mg/L**	**1**	5.0	0.50	11/20/2019 23:34	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/20/2019 23:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.18**	**J4**	**mg/L**	**5**	0.050	0.040	11/26/2019 13:26	G

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228007** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-22BR** Date Collected: 11/19/19 13:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**58**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228008** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-23A** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**32**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:34	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:34	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:34	J
Chromium	**24**		**ug/L**	**1**	8.0	2.0	11/26/2019 23:34	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:34	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:35	J
Iron	**360**	**I**	**ug/L**	**1**	400	100	11/26/2019 23:34	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:34	J
Nickel	**18**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 23:34	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:34	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:34	J
Sodium	**500**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:34	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:34	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**3.5**		**ug/L**	**1**	0.70	0.11	12/3/2019 23:31	J
Arsenic	**6.2**		**ug/L**	**1**	1.0	0.077	12/10/2019 14:05	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:31	J
Vanadium	**15**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:31	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228008** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-23A** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:05	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 01:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 01:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 01:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 01:22	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:22	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 01:22	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 01:22	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 01:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 01:22	J
2-Butanone (MEK)	**63**		**ug/L**	**1**	5.0	0.43	11/27/2019 01:22	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 01:22	J
4-Methyl-2-pentanone (MIBK)	**5.8**		**ug/L**	**1**	1.0	0.47	11/27/2019 01:22	J
Acetone	**290**		**ug/L**	**3**	15	6.2	12/2/2019 10:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 01:22	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 01:22	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 01:22	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 01:22	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 01:22	J
Carbon Disulfide	**2.3**		**ug/L**	**1**	1.0	0.67	11/27/2019 01:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 01:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 01:22	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 01:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 01:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 01:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 01:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 01:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 01:22	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228008** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-23A** Date Collected: 11/19/19 14:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**2.2**		**ug/L**	**1**	1.0	0.23	11/27/2019 01:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 01:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 01:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 01:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 01:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 01:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:22	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 01:22	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/27/2019 01:22	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		11/27/2019 01:22	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		11/27/2019 01:22	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 01:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 01:22	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/27/2019 01:22	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		11/27/2019 01:22	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		11/27/2019 01:22	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**870**		**mg/L**	**20**	100	10	11/20/2019 23:57	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	11/20/2019 23:57	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**42**		**mg/L**	**100**	1.0	0.80	11/26/2019 16:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1900**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228009** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-23B** Date Collected: 11/19/19 14:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**65**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:39	J
Beryllium	**0.50**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:39	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:39	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:39	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:39	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:38	J
Iron	**1000**		**ug/L**	**1**	400	100	11/26/2019 23:39	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:39	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:39	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:39	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:39	J
Sodium	**170**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:39	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:39	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:36	J
Arsenic	**0.98**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:26	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:36	J
Vanadium	**12**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:36	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:08	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 01:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 01:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 01:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 01:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 01:59	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228009** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-23B** Date Collected: 11/19/19 14:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 01:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 01:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 01:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 01:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 01:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 01:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 01:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 01:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 01:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 01:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 01:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 01:59	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 01:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 01:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 01:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 01:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 01:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 01:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 01:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 01:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 01:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 01:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 01:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 01:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 01:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 01:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 01:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 01:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 01:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 01:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 01:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 01:59	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/27/2019 01:59	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		11/27/2019 01:59	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228009** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-23B** Date Collected: 11/19/19 14:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		11/27/2019 01:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 01:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 01:59	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/27/2019 01:59	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		11/27/2019 01:59	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/27/2019 01:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**250**		**mg/L**	**2**	10	1.0	11/21/2019 04:10	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/21/2019 04:10	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**740**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228010** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-27A** Date Collected: 11/19/19 08:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**23**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:44	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:44	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:44	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:44	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:44	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228010** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-27A** Date Collected: 11/19/19 08:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:42	J
Iron	**470**		**ug/L**	**1**	400	100	11/26/2019 23:44	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:44	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:44	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:44	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:44	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:44	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:44	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.43**	**I**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:40	J
Arsenic	**1.2**		**ug/L**	**1**	1.0	0.077	12/10/2019 14:30	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:40	J
Vanadium	**9.1**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:40	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:12	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 02:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 02:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 02:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 02:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 02:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 02:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 02:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 02:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 02:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 02:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 02:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 02:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 02:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 02:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 02:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 02:28	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228010** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-27A** Date Collected: 11/19/19 08:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 02:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 02:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 02:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 02:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 02:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 02:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 02:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 02:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 02:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 02:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 02:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 02:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 02:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 02:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 02:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 02:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 02:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 02:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 02:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 02:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 02:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 02:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 02:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 02:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 02:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 02:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 02:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 02:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 02:28	J
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-128		11/27/2019 02:28	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		11/27/2019 02:28	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/27/2019 02:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 02:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 02:28	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/27/2019 02:28	
Toluene-d8 (S)	**88**		**%**	**1**	80-121		11/27/2019 02:28	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/27/2019 02:28	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228010** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-27A** Date Collected: 11/19/19 08:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**26**		**mg/L**	**1**	5.0	0.50	11/21/2019 04:33	J
Nitrate (as N)	**0.73**		**mg/L**	**1**	0.50	0.050	11/21/2019 04:33	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.0**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228011** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-27B** Date Collected: 11/19/19 09:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**17**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:48	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:48	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:48	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:48	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:48	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:45	J
Iron	**470**		**ug/L**	**1**	400	100	11/26/2019 23:48	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:48	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:48	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:48	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:48	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:48	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:48	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228011** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-27B** Date Collected: 11/19/19 09:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:45	J
Arsenic	**0.67**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:35	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:45	J
Vanadium	**1.4**	**I**	**ug/L**	**1**	2.0	0.71	12/3/2019 23:45	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:15	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 03:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 03:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 03:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 03:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 03:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 03:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 03:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 03:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 03:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 03:05	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 03:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 03:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 03:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 03:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 03:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 03:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 03:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 03:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 03:05	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228011** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-27B** Date Collected: 11/19/19 09:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 03:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 03:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 03:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 03:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 03:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 03:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 03:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 03:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 03:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 03:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 03:05	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		11/27/2019 03:05	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		11/27/2019 03:05	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/27/2019 03:05	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 03:05	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 03:05	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		11/27/2019 03:05	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		11/27/2019 03:05	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		11/27/2019 03:05	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**33**		**mg/L**	**1**	5.0	0.50	11/21/2019 01:06	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2019 01:06	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.11**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:33	G

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228011** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-27B** Date Collected: 11/19/19 09:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**100**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228012** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-28A** Date Collected: 11/19/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**120**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:53	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:53	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:53	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:53	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:53	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:49	J
Iron	**6700**		**ug/L**	**1**	400	100	11/26/2019 23:53	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:53	J
Nickel	**6.4**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 23:53	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:53	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:53	J
Sodium	**160**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:53	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:53	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:49	J
Arsenic	**1.4**		**ug/L**	**1**	1.0	0.077	12/10/2019 14:39	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:49	J
Vanadium	**0.72**	**I**	**ug/L**	**1**	2.0	0.71	12/3/2019 23:49	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228012** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-28A** Date Collected: 11/19/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:24	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/27/2019 03:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 03:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2019 03:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2019 03:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/27/2019 03:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/27/2019 03:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2019 03:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2019 03:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/27/2019 03:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2019 03:35	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2019 03:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2019 03:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2019 03:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/27/2019 03:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/27/2019 03:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 03:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/27/2019 03:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 03:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 03:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2019 03:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2019 03:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2019 03:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 03:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2019 03:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2019 03:35	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228012** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-28A** Date Collected: 11/19/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2019 03:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2019 03:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2019 03:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2019 03:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2019 03:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2019 03:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2019 03:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2019 03:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2019 03:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2019 03:35	J
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	70-128		11/27/2019 03:35	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		11/27/2019 03:35	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/27/2019 03:35	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/27/2019 03:35	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2019 03:35	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/27/2019 03:35	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		11/27/2019 03:35	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/27/2019 03:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**430**		**mg/L**	**5**	25	2.5	11/26/2019 18:53	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/21/2019 01:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**14**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**720**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228013** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-28B** Date Collected: 11/19/19 11:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**41**		**ug/L**	**1**	4.0	1.0	11/26/2019 23:57	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 23:57	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 23:57	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:57	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 23:57	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 16:52	J
Iron	**1200**		**ug/L**	**1**	400	100	11/26/2019 23:57	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 23:57	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 23:57	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 23:57	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 23:57	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	11/26/2019 23:57	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 23:57	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:53	J
Arsenic	**0.80**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:53	J
Vanadium	**2.0**	**I**	**ug/L**	**1**	2.0	0.71	12/3/2019 23:53	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:28	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 06:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 06:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 06:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 06:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 06:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 06:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 06:59	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228013** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-28B** Date Collected: 11/19/19 11:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 06:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 06:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 06:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 06:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 06:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 06:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 06:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 06:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 06:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 06:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 06:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 06:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 06:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 10:31	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 06:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 06:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 06:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 06:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 06:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 06:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 06:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 06:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 06:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 06:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 06:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 06:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 06:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 06:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 06:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 06:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 10:31	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 06:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 06:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 06:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 06:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 06:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 06:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 06:59	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		11/28/2019 06:59	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		11/28/2019 06:59	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228013** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-28B** Date Collected: 11/19/19 11:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		11/28/2019 06:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 06:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 06:59	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		11/28/2019 06:59	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		11/28/2019 06:59	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		11/28/2019 06:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**37**		**mg/L**	**1**	5.0	0.50	11/21/2019 02:15	J
Nitrate (as N)	**0.069**	**I**	**mg/L**	**1**	0.50	0.050	11/21/2019 02:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.10**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**110**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228014** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-29A** Date Collected: 11/19/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**52**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:33	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:33	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:33	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:33	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:33	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228014** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-29A** Date Collected: 11/19/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:33	J
Iron	**2200**		**ug/L**	**1**	400	100	12/3/2019 14:33	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:33	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:33	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:33	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:33	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:33	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.27**	**I**	**ug/L**	**1**	0.70	0.11	12/3/2019 23:57	J
Arsenic	**0.82**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:47	J
Thallium	**0.060**	**I**	**ug/L**	**1**	0.20	0.057	12/3/2019 23:57	J
Vanadium	**10**		**ug/L**	**1**	2.0	0.71	12/3/2019 23:57	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:31	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 07:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 07:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:29	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 07:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 07:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:29	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 07:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:29	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 07:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 07:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 07:29	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 07:29	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 07:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 07:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 07:29	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228014** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-29A** Date Collected: 11/19/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 07:29	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 07:29	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 07:29	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 11:07	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 07:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 07:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 07:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 07:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 07:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 07:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 07:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 07:29	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 07:29	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 07:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 11:07	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 07:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 07:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:29	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 07:29	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		11/28/2019 07:29	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		11/28/2019 07:29	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		11/28/2019 07:29	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 07:29	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 07:29	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		11/28/2019 07:29	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		11/28/2019 07:29	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		11/28/2019 07:29	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228014** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-29A** Date Collected: 11/19/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	11/21/2019 02:38	J
Nitrate (as N)	**4.6**		**mg/L**	**1**	0.50	0.050	11/21/2019 02:38	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.17**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:36	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**220**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228015** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-29B** Date Collected: 11/19/19 12:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**98**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:37	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:37	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:37	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:37	J
Iron	**2900**		**ug/L**	**1**	400	100	12/3/2019 14:37	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:37	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:37	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:37	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:37	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228015** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-29B** Date Collected: 11/19/19 12:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 00:02	J
Arsenic	**0.65**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 00:02	J
Vanadium	**2.2**		**ug/L**	**1**	2.0	0.71	12/4/2019 00:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:34	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 07:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 07:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 07:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 07:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 07:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 07:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 07:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 07:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 07:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 07:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 07:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 07:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 07:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 07:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 07:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 11:37	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 07:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 07:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 07:59	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228015** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-29B** Date Collected: 11/19/19 12:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 07:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 07:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 07:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 07:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 07:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 07:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 07:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 07:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 07:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 11:37	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 07:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 07:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 07:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 07:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 07:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 07:59	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		11/28/2019 07:59	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		11/28/2019 07:59	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		11/28/2019 07:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 07:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 07:59	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		11/28/2019 07:59	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		11/28/2019 07:59	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		11/28/2019 07:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**31**		**mg/L**	**1**	5.0	0.50	11/21/2019 03:01	J
Nitrate (as N)	**0.051**	**I**	**mg/L**	**1**	0.50	0.050	11/21/2019 03:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.05**	**I**	**mg/L**	**5**	0.050	0.040	11/26/2019 13:37	G

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228015** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-29B** Date Collected: 11/19/19 12:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**160**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228016** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-30A** Date Collected: 11/19/19 11:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**82**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:40	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:40	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:40	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:40	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:40	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:40	J
Iron	**1600**		**ug/L**	**1**	400	100	12/3/2019 14:40	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:40	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:40	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:40	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:40	J
Sodium	**27**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:40	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:40	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.15**	**I**	**ug/L**	**1**	0.70	0.11	12/4/2019 00:06	J
Arsenic	**0.55**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 00:06	J
Vanadium	**2.0**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 00:06	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228016** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-30A** Date Collected: 11/19/19 11:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:37	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 08:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 08:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:29	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 08:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 08:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:29	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 08:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:29	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 08:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 08:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 08:29	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 08:29	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 08:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 08:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 08:29	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 08:29	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 08:29	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 08:29	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 12:13	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 08:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 08:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 08:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 08:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 08:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 08:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 08:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 08:29	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228016** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-30A** Date Collected: 11/19/19 11:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 08:29	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 08:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 12:13	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 08:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 08:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:29	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 08:29	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	70-128		11/28/2019 08:29	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		11/28/2019 08:29	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		11/28/2019 08:29	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 08:29	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 08:29	J
1,2-Dichloroethane-d4 (S)	**81**		**%**	**1**	77-125		11/28/2019 08:29	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		11/28/2019 08:29	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		11/28/2019 08:29	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**33**		**mg/L**	**1**	5.0	0.50	11/21/2019 03:24	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2019 03:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.00**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**200**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228017** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-30B** Date Collected: 11/19/19 12:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**14**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:44	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:44	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:44	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:44	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:44	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:44	J
Iron	**1600**		**ug/L**	**1**	400	100	12/3/2019 14:44	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:44	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:44	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:44	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:44	J
Sodium	**7.7**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:44	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:44	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 00:22	J
Arsenic	**0.73**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 14:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 00:22	J
Vanadium	**0.93**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 00:22	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/21/2019 14:41	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 08:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 08:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 08:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 08:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 08:59	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228017** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-MW-30B** Date Collected: 11/19/19 12:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 08:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 08:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 08:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 08:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 08:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 08:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 08:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 08:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 08:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 08:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 12:43	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 08:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 08:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 08:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 08:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 08:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 08:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 08:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 08:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 08:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 08:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 08:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 08:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 12:43	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 08:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 08:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 08:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 08:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 08:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 08:59	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		11/28/2019 08:59	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		11/28/2019 08:59	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228017** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-MW-30B** Date Collected: 11/19/19 12:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		11/28/2019 08:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 08:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 08:59	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		11/28/2019 08:59	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		11/28/2019 08:59	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		11/28/2019 08:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**22**		**mg/L**	**1**	5.0	0.50	11/21/2019 03:47	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2019 03:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.07**		**mg/L**	**5**	0.050	0.040	11/26/2019 13:48	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**63**		**mg/L**	**1**	10	10	11/25/2019 14:30	J

Lab ID: **J1915228018** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-Trip Blank-1** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 20:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 20:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 20:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 20:28	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228018** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-Trip Blank-1** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 20:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 20:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 20:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 20:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 20:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 20:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 20:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 20:28	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 20:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 20:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 20:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 20:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 20:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 20:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 20:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 20:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 20:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 20:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 20:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 20:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 20:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 20:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 20:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 20:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 20:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 20:28	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228018** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-Trip Blank-1** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	70-128		11/26/2019 20:28	
Toluene-d8 (S)	**91**		**%**	**1**	77-119		11/26/2019 20:28	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		11/26/2019 20:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 20:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 20:28	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/26/2019 20:28	
Toluene-d8 (S)	**93**		**%**	**1**	80-121		11/26/2019 20:28	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/26/2019 20:28	

Lab ID: **J1915228019** Date Received: 11/20/19 09:50 Matrix: Water
Sample ID: **19323-Trip Blank-2** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/26/2019 20:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 20:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/26/2019 20:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/26/2019 20:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/26/2019 20:58	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/26/2019 20:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/26/2019 20:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/26/2019 20:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/26/2019 20:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/26/2019 20:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/26/2019 20:58	J

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228019** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-Trip Blank-2** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/26/2019 20:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/26/2019 20:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/26/2019 20:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/26/2019 20:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 20:58	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/26/2019 20:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 20:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 20:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/26/2019 20:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/26/2019 20:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/26/2019 20:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 20:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/26/2019 20:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/26/2019 20:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/26/2019 20:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/26/2019 20:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/26/2019 20:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/26/2019 20:58	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/26/2019 20:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/26/2019 20:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/26/2019 20:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/26/2019 20:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/26/2019 20:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/26/2019 20:58	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	70-128		11/26/2019 20:58	
Toluene-d8 (S)	**91**		**%**	**1**	77-119		11/26/2019 20:58	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		11/26/2019 20:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/26/2019 20:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/26/2019 20:58	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/26/2019 20:58	
Toluene-d8 (S)	**93**		**%**	**1**	80-121		11/26/2019 20:58	

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ANALYTICAL RESULTS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915228019** Date Received: 11/20/19 09:50 Matrix: Water

Sample ID: **19323-Trip Blank-2** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/26/2019 20:58	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/6782 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

METHOD BLANK: 3296379

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3296380 3296381

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	20	20	98	99	90-110	1	10	
Nitrate (as N)	mg/L	2	2.0	2.0	99	99	90-110	1	10	

MATRIX SPIKE SAMPLE: 3296382 Original: J1915228001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	35	20	52	84	90-110	
Nitrate (as N)	mg/L	0	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 3296383 Original: J1915228011

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	33	20	52	92	90-110	
Nitrate (as N)	mg/L	0.034	2	1.9	94	90-110	

QC Batch: DGMj/4291 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/21/2019 10:25
Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3297652

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3297653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	2.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3297654 3297655 Original: J1915228001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	1.8	1.8	91	91	80-120	0	20	

QC Batch: WCAj/6816 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006

METHOD BLANK: 3300193

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3300194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

SAMPLE DUPLICATE: 3300195 Original: J1915189001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	420	410	2	10	

QC Batch: DGMj/4304 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30

Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

METHOD BLANK: 3300334

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

LABORATORY CONTROL SAMPLE: 3300335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	210	105	80-120	
Barium	ug/L	20	21	107	80-120	
Beryllium	ug/L	10	10	101	80-120	
Cadmium	ug/L	20	21	104	80-120	

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	ug/L	40	42	106	80-120	
Chromium	ug/L	40	41	102	80-120	
Copper	ug/L	80	96	120	80-120	
Iron	ug/L	2000	2000	102	80-120	
Sodium	mg/L	7	7.0	100	80-120	
Nickel	ug/L	120	130	107	80-120	
Lead	ug/L	60	62	104	80-120	
Selenium	ug/L	800	810	101	80-120	
Zinc	ug/L	1000	1100	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300336 3300337 Original: J1915390002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	210	210	105	104	75-125	1	20	
Barium	ug/L	51	20	74	74	112	113	75-125	0	20	
Beryllium	ug/L	0	10	10	10	103	103	75-125	0	20	
Cadmium	ug/L	0	20	20	20	100	99	75-125	1	20	
Cobalt	ug/L	0	40	41	41	103	103	75-125	0	20	
Chromium	ug/L	0	40	41	40	102	99	75-125	3	20	
Copper	ug/L	19	80	99	98	100	100	75-125	0	20	
Iron	ug/L	2400	2000	4500	4500	104	103	75-125	1	20	
Sodium	mg/L	5	7	12	12	105	105	75-125	0	20	
Nickel	ug/L	1.6	120	130	130	107	106	75-125	0	20	
Lead	ug/L	0	60	60	62	100	103	75-125	3	20	
Selenium	ug/L	0	800	810	820	101	102	75-125	1	20	
Zinc	ug/L	11	1000	1100	1100	109	109	75-125	0	20	

QC Batch: DGMj/4305 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30

Associated Lab Samples: J1915228014, J1915228015, J1915228016, J1915228017

METHOD BLANK: 3300338

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300338

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

LABORATORY CONTROL SAMPLE: 3300339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	102	80-120	
Barium	ug/L	20	21	104	80-120	
Beryllium	ug/L	10	10	101	80-120	
Cadmium	ug/L	20	20	102	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	41	102	80-120	
Copper	ug/L	80	82	103	80-120	
Iron	ug/L	2000	2100	104	80-120	
Sodium	mg/L	7	6.5	93	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	101	80-120	
Selenium	ug/L	800	790	99	80-120	
Zinc	ug/L	1000	1000	102	80-120	

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300340 3300341 Original: J1915228014

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0.6	200	200	200	99	98	75-125	2	20	
Barium	ug/L	52	20	70	68	90	82	75-125	2	20	
Beryllium	ug/L	0	10	10	9.9	100	99	75-125	1	20	
Cadmium	ug/L	0	20	20	19	98	97	75-125	2	20	
Cobalt	ug/L	0	40	40	40	100	99	75-125	1	20	
Chromium	ug/L	2	40	41	41	97	97	75-125	0	20	
Copper	ug/L	0.7	80	80	79	100	99	75-125	1	20	
Iron	ug/L	2200	2000	4200	4100	99	96	75-125	2	20	
Sodium	mg/L	15	7	21	21	88	81	75-125	3	20	
Nickel	ug/L	3.2	120	120	120	103	102	75-125	1	20	
Lead	ug/L	2.2	60	61	59	101	99	75-125	2	20	
Selenium	ug/L	0	800	790	780	98	97	75-125	1	20	
Zinc	ug/L	6.3	1000	1000	1000	102	101	75-125	1	20	

QC Batch: WCAj/6822 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1915228007, J1915228008, J1915228009, J1915228010, J1915228011, J1915228012, J1915228013, J1915228014,

METHOD BLANK: 3300595

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3300596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

SAMPLE DUPLICATE: 3300597 Original: J1915228007

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	58	55	5	10	

QC Batch: DGMj/4312 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/26/2019 03:30

Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

METHOD BLANK: 3301164

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	0.71	0.71	U
Arsenic	ug/L	0.077	0.077	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3301165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Vanadium	ug/L	50	48	96	80-120	
Arsenic	ug/L	50	50	100	80-120	
Antimony	ug/L	50	48	95	80-120	
Thallium	ug/L	50	47	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301166 3301167 Original: J1915228001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Vanadium	ug/L	4.8	50	53	53	97	97	75-125	0	20	
Arsenic	ug/L	150	50	190	190	89	83	75-125	2	20	
Antimony	ug/L	0	50	51	51	101	102	75-125	1	20	
Thallium	ug/L	0.036	50	49	49	98	98	75-125	0	20	

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAg/8890 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006

METHOD BLANK: 3301944

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3301945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	105	90-110	

LABORATORY CONTROL SAMPLE: 3301946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301947 3301948 Original: J1915176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.01	2	1.8	1.8	91	91	90-110	0	10	

QC Batch: WCAg/8891 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915228007, J1915228008, J1915228009, J1915228010, J1915228011, J1915228012, J1915228013, J1915228014,

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301952

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3301953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	105	90-110	

LABORATORY CONTROL SAMPLE: 3301954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.22	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301955 3301956 Original: J1915228007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.18	2	2.0	2.0	89	90	90-110	1	10	

QC Batch: WCAg/8892 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915228017

METHOD BLANK: 3301961

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3301962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	104	90-110	

LABORATORY CONTROL SAMPLE: 3301963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301964 3301965 Original: J1915228017

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.07	2	1.9	2.0	93	96	90-110	3	10	

QC Batch: WCAj/6841 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1915228012

METHOD BLANK: 3302070

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U

LABORATORY CONTROL SAMPLE & LCSD: 3302071 3302072

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	19	20	97	98	90-110	1	10	

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3302073 Original: J1915445005

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	15	20	34	97	90-110	

MATRIX SPIKE SAMPLE: 3302658 Original: J1915510001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	57	20	76	95	90-110	

QC Batch: MSVj/4667 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 11/26/2019 18:45

Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

METHOD BLANK: 3303317

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3303317

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	102	70-128	
Toluene-d8 (S)	%	89	77-119	
Bromofluorobenzene (S)	%	103	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3303318 3303319

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	24	18	120	91		28		
Vinyl Chloride	ug/L	20	21	19	105	94	70-130	11	20	
Bromomethane	ug/L	20	23	8.5	117	43		93		
Chloroethane	ug/L	20	21	19	104	97		7		
Trichlorofluoromethane	ug/L	20	21	19	105	94		11		
Acetone	ug/L	20	42	23	208	115		58		
1,1-Dichloroethylene	ug/L	20	22	19	112	94	70-130	17	20	
Iodomethane (Methyl Iodide)	ug/L	20	27	14	134	70		62		
Acrylonitrile	ug/L	20	31	22	154	111		32		
Methylene Chloride	ug/L	20	31	24	155	118		27		

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3303318 3303319

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Carbon Disulfide	ug/L	20	22	20	109	99		10		
trans-1,2-Dichloroethylene	ug/L	20	22	18	112	92		19		
1,1-Dichloroethane	ug/L	20	23	19	113	96		16		
Vinyl Acetate	ug/L	20	35	8.5	177	42		123		
2-Butanone (MEK)	ug/L	20	30	23	148	113		27		
cis-1,2-Dichloroethylene	ug/L	20	23	18	114	91	70-130	22	20	
Bromochloromethane	ug/L	20	24	19	118	97		20		
Chloroform	ug/L	20	22	18	112	92	70-130	20	20	
1,2-Dichloroethane	ug/L	20	25	20	124	100		22		
1,1,1-Trichloroethane	ug/L	20	22	17	112	86		26		
Carbon Tetrachloride	ug/L	20	22	18	112	91		21		
Benzene	ug/L	20	23	19	116	96	70-130	19	20	
Dibromomethane	ug/L	20	26	21	129	105		21		
1,2-Dichloropropane	ug/L	20	23	20	116	99		16		
Trichloroethene	ug/L	20	23	23	117	114	70-130	2	20	
Bromodichloromethane	ug/L	20	22	18	112	89		22		
cis-1,3-Dichloropropene	ug/L	20	24	19	119	94		24		
4-Methyl-2-pentanone (MIBK)	ug/L	20	36	25	181	124		38		
trans-1,3-Dichloropropylene	ug/L	20	26	19	128	95		30		
1,1,2-Trichloroethane	ug/L	20	26	22	133	112		17		
Toluene	ug/L	20	20	16	100	82	70-130	20	20	
2-Hexanone	ug/L	20	33	22	167	108		43		
Dibromochloromethane	ug/L	20	22	17	109	86		24		
Tetrachloroethylene (PCE)	ug/L	20	19	17	97	84	70-130	14	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	17	102	83		20		
Chlorobenzene	ug/L	20	20	16	100	82	70-130	19	20	
Ethylbenzene	ug/L	20	20	17	102	83	70-130	20	20	
Bromoform	ug/L	20	24	19	121	93		26		
Styrene	ug/L	20	20	16	102	79		25		
1,1,2,2-Tetrachloroethane	ug/L	20	27	16	137	80		53		
1,2,3-Trichloropropane	ug/L	20	24	25	119	127		7		
1,4-Dichlorobenzene	ug/L	20	17	15	87	77		13		
1,2-Dichlorobenzene	ug/L	20	18	17	92	83	70-130	10	20	
Xylene (Total)	ug/L	60	61	50	102	83	70-130	21	20	
1,2-Dichloroethane-d4 (S)	%				101	85	70-128	18		
Toluene-d8 (S)	%				90	87	77-119	3		
Bromofluorobenzene (S)	%				96	99	86-123	4		

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3303320 Original: J1915228003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	18	92		
Vinyl Chloride	ug/L	0	20	18	92	70-130	
Bromomethane	ug/L	0	20	5.6	28		
Chloroethane	ug/L	0	20	17	86		
Trichlorofluoromethane	ug/L	0	20	19	96		
Acetone	ug/L	0	20	28	141		
1,1-Dichloroethylene	ug/L	0	20	20	102	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	28	140		
Acrylonitrile	ug/L	0	20	28	138		
Methylene Chloride	ug/L	0	20	20	100		
Carbon Disulfide	ug/L	0	20	20	101		
trans-1,2-Dichloroethylene	ug/L	0	20	21	105		
1,1-Dichloroethane	ug/L	0	20	22	108		
Vinyl Acetate	ug/L	0	20	41	206		
2-Butanone (MEK)	ug/L	0	20	27	133		
cis-1,2-Dichloroethylene	ug/L	0	20	20	102	70-130	
Bromochloromethane	ug/L	0	20	22	112		
Chloroform	ug/L	0	20	21	106	70-130	
1,2-Dichloroethane	ug/L	0	20	24	120		
1,1,1-Trichloroethane	ug/L	0	20	21	103		
Carbon Tetrachloride	ug/L	0	20	20	102		
Benzene	ug/L	0	20	21	106	70-130	
Dibromomethane	ug/L	0	20	25	125		
1,2-Dichloropropane	ug/L	0	20	21	107		
Trichloroethene	ug/L	0	20	20	100	70-130	
Bromodichloromethane	ug/L	0	20	21	107		
cis-1,3-Dichloropropene	ug/L	0	20	20	102		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	32	160		
trans-1,3-Dichloropropylene	ug/L	0	20	21	107		
1,1,2-Trichloroethane	ug/L	0	20	26	129		
Toluene	ug/L	0	20	18	90	70-130	
2-Hexanone	ug/L	0	20	27	137		
Dibromochloromethane	ug/L	0	20	20	98		
Tetrachloroethylene (PCE)	ug/L	0	20	17	86	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	18	89		
Chlorobenzene	ug/L	0	20	18	89	70-130	
Ethylbenzene	ug/L	0	20	18	91	70-130	
Bromoform	ug/L	0	20	21	104		
Styrene	ug/L	0	20	18	88		
1,1,2,2-Tetrachloroethane	ug/L	0	20	26	129		
1,2,3-Trichloropropane	ug/L	0	20	20	101		

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3303320 Original: J1915228003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	0	20	16	80		
1,2-Dichlorobenzene	ug/L	0	20	17	86	70-130	
Xylene (Total)	ug/L	0	60	55	91	70-130	
1,2-Dichloroethane-d4 (S)	%	104			103	70-128	
Toluene-d8 (S)	%	89			88	77-119	
Bromofluorobenzene (S)	%	106			97	86-123	

QC Batch: MSVj/4669 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 11/26/2019 18:45

Associated Lab Samples: J1915228001, J1915228002, J1915228003, J1915228004, J1915228005, J1915228006, J1915228007, J1915228008,

METHOD BLANK: 3303329

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	97	77-125	
Toluene-d8 (S)	%	90	80-121	
Bromofluorobenzene (S)	%	103	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3303330 3303331

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.84	0.87	105	109	70-130	4	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.83	0.77	104	96	70-130	8	30	
1,2-Dichloroethane-d4 (S)	%				99	97	77-125	2		
Toluene-d8 (S)	%				90	89	80-121	2		
Bromofluorobenzene (S)	%				101	106	80-129	5		

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QUALITY CONTROL DATA

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3303332 Original: J1915228002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.83	104	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.84	105	70-130	
1,2-Dichloroethane-d4 (S)	%	100			100	77-125	
Toluene-d8 (S)	%	90			88	80-121	
Bromofluorobenzene (S)	%	102			102	80-129	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915228001	19323-CW-1A			EPA 300.0	WCAj/6782
J1915228002	19323-MW-16AR			EPA 300.0	WCAj/6782
J1915228003	19323-MW-16BR			EPA 300.0	WCAj/6782
J1915228004	19323-MW-17AR			EPA 300.0	WCAj/6782
J1915228005	19323-MW-17BR			EPA 300.0	WCAj/6782
J1915228006	19323-MW-22AR			EPA 300.0	WCAj/6782
J1915228007	19323-MW-22BR			EPA 300.0	WCAj/6782
J1915228008	19323-MW-23A			EPA 300.0	WCAj/6782
J1915228009	19323-MW-23B			EPA 300.0	WCAj/6782
J1915228010	19323-MW-27A			EPA 300.0	WCAj/6782
J1915228011	19323-MW-27B			EPA 300.0	WCAj/6782
J1915228012	19323-MW-28A			EPA 300.0	WCAj/6782
J1915228013	19323-MW-28B			EPA 300.0	WCAj/6782
J1915228014	19323-MW-29A			EPA 300.0	WCAj/6782
J1915228015	19323-MW-29B			EPA 300.0	WCAj/6782
J1915228016	19323-MW-30A			EPA 300.0	WCAj/6782
J1915228017	19323-MW-30B			EPA 300.0	WCAj/6782
J1915228001	19323-CW-1A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228002	19323-MW-16AR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228003	19323-MW-16BR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228004	19323-MW-17AR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228005	19323-MW-17BR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228006	19323-MW-22AR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228007	19323-MW-22BR	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228008	19323-MW-23A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228009	19323-MW-23B	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228010	19323-MW-27A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228011	19323-MW-27B	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228012	19323-MW-28A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228013	19323-MW-28B	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228014	19323-MW-29A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228015	19323-MW-29B	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228016	19323-MW-30A	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915228017	19323-MW-30B	SW-846 7470A	DGMj/4291	SW-846 7470A	CVAj/1728
J1915228001	19323-CW-1A			SM 2540 C	WCAj/6816
J1915228002	19323-MW-16AR			SM 2540 C	WCAj/6816
J1915228003	19323-MW-16BR			SM 2540 C	WCAj/6816
J1915228004	19323-MW-17AR			SM 2540 C	WCAj/6816
J1915228005	19323-MW-17BR			SM 2540 C	WCAj/6816
J1915228006	19323-MW-22AR			SM 2540 C	WCAj/6816
J1915228001	19323-CW-1A	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228002	19323-MW-16AR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228003	19323-MW-16BR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228004	19323-MW-17AR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228005	19323-MW-17BR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228006	19323-MW-22AR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228007	19323-MW-22BR	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228008	19323-MW-23A	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228009	19323-MW-23B	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228010	19323-MW-27A	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228011	19323-MW-27B	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228012	19323-MW-28A	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228013	19323-MW-28B	SW-846 3010A	DGMj/4304	SW-846 6010	ICPj/2390
J1915228014	19323-MW-29A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915228015	19323-MW-29B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915228016	19323-MW-30A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915228017	19323-MW-30B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915228007	19323-MW-22BR			SM 2540 C	WCAj/6822
J1915228008	19323-MW-23A			SM 2540 C	WCAj/6822
J1915228009	19323-MW-23B			SM 2540 C	WCAj/6822
J1915228010	19323-MW-27A			SM 2540 C	WCAj/6822
J1915228011	19323-MW-27B			SM 2540 C	WCAj/6822

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915228012	19323-MW-28A			SM 2540 C	WCAj/6822
J1915228013	19323-MW-28B			SM 2540 C	WCAj/6822
J1915228014	19323-MW-29A			SM 2540 C	WCAj/6822
J1915228015	19323-MW-29B			SM 2540 C	WCAj/6822
J1915228016	19323-MW-30A			SM 2540 C	WCAj/6822
J1915228017	19323-MW-30B			SM 2540 C	WCAj/6822
J1915228001	19323-CW-1A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228002	19323-MW-16AR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228003	19323-MW-16BR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228004	19323-MW-17AR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228005	19323-MW-17BR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228006	19323-MW-22AR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228007	19323-MW-22BR	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228008	19323-MW-23A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228009	19323-MW-23B	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228010	19323-MW-27A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228011	19323-MW-27B	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228012	19323-MW-28A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228013	19323-MW-28B	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228014	19323-MW-29A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228015	19323-MW-29B	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228016	19323-MW-30A	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228017	19323-MW-30B	SW-846 3010A	DGMj/4312	SW-846 6020	ICMj/2188
J1915228001	19323-CW-1A			EPA 350.1	WCAg/8890
J1915228002	19323-MW-16AR			EPA 350.1	WCAg/8890
J1915228003	19323-MW-16BR			EPA 350.1	WCAg/8890
J1915228004	19323-MW-17AR			EPA 350.1	WCAg/8890
J1915228005	19323-MW-17BR			EPA 350.1	WCAg/8890
J1915228006	19323-MW-22AR			EPA 350.1	WCAg/8890
J1915228007	19323-MW-22BR			EPA 350.1	WCAg/8891
J1915228008	19323-MW-23A			EPA 350.1	WCAg/8891

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915228009	19323-MW-23B			EPA 350.1	WCAg/8891
J1915228010	19323-MW-27A			EPA 350.1	WCAg/8891
J1915228011	19323-MW-27B			EPA 350.1	WCAg/8891
J1915228012	19323-MW-28A			EPA 350.1	WCAg/8891
J1915228013	19323-MW-28B			EPA 350.1	WCAg/8891
J1915228014	19323-MW-29A			EPA 350.1	WCAg/8891
J1915228015	19323-MW-29B			EPA 350.1	WCAg/8891
J1915228016	19323-MW-30A			EPA 350.1	WCAg/8891
J1915228017	19323-MW-30B			EPA 350.1	WCAg/8892
J1915228012	19323-MW-28A			EPA 300.0	WCAj/6841
J1915228001	19323-CW-1A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228002	19323-MW-16AR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228003	19323-MW-16BR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228004	19323-MW-17AR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228005	19323-MW-17BR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228006	19323-MW-22AR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228007	19323-MW-22BR	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228008	19323-MW-23A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228009	19323-MW-23B	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228010	19323-MW-27A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228011	19323-MW-27B	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228012	19323-MW-28A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228013	19323-MW-28B	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228014	19323-MW-29A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228015	19323-MW-29B	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228016	19323-MW-30A	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228017	19323-MW-30B	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228018	19323-Trip Blank-1	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668
J1915228019	19323-Trip Blank-2	SW-846 5030B	MSVj/4667	SW-846 8260B	MSVj/4668

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915228 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915228001	19323-CW-1A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228002	19323-MW-16AR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228003	19323-MW-16BR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228004	19323-MW-17AR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228005	19323-MW-17BR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228006	19323-MW-22AR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228007	19323-MW-22BR	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228008	19323-MW-23A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228009	19323-MW-23B	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228010	19323-MW-27A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228011	19323-MW-27B	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228012	19323-MW-28A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228013	19323-MW-28B	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228014	19323-MW-29A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228015	19323-MW-29B	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228016	19323-MW-30A	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228017	19323-MW-30B	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228018	19323-Trip Blank-1	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670
J1915228019	19323-Trip Blank-2	SW-846 5030B	MSVj/4669	SW-846 8260B (SIM)	MSVj/4670

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☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 3260
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, Fl
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

* J 1 9 1 5 2 2 8 *

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley + Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 1 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St. Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	App I VOAs+EDB/DBCP (40 mL Vials) HCL	App I Metals+Fe,Hg,Na (500 mL Plastic) HNO3	Cl/NO3/TDS (500 mL Plastic) Ice	NH3 (250 mL Plastic) H2SO4	LABORATORY I.D. NUMBER
19323-GW-	1A	G	11/19/19	0854	GW	6		3	1	1	1	001
19323-MW-	16AR			1456								002
19323-MW-	16BR			1530								003
19323-MW-	17AR			1322								004
19323-MW-	17BR			1400								005
19323-MW-	22AR			1326								006
19323-MW-	22BR			1308								007
19323-MW-	23A			1456								008
19323-MW-	23B			1412								009
19323-MW-	27A	G	11/19/19	0845	GW	6		3	1	1	1	010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/19/19	1730	FedEx	11/19/19	1730
2	FedEx	11-20-19	9:50	[signature]	11-20-19	9:50
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Advanced Environmental Laboratories, Inc.

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☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 326
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, F
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, I
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 •

* J 1 9 1 5 2 2 8 *

Client Name:	Waste Connections, Inc.	Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)	
Address:	5135 Madison Avenue	P.O. Number/Project Number:	
	Tampa, Florida 33619	Project Location:	
Phone:	813-968-6142	FDEP Facility No: 89544	
FAX:		Project Name and Address: JED SWDF 1501 Omni Way St. Cloud, FL	
Contact:	Kirk Wills		
Sampled By:	Neil Stokes + Daniel Martel		
Turn Around Time:	☒ STANDARD ☐ RUSH	Special Instructions: Jax Profile: 31172	
Page 2 of 2		■ ADaPT ☐ EQuIS	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 ml Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19323-MW-27B		G	11/19/19	0928	GW	6		3	1	1	1							011
19323-MW-28A		↓	↓	1030	↓	↓		↓	↓	↓	↓							012
19323-MW-28B				1120														013
19323-MW-29A				1200														014
19323-MW-29B				1238														015
19323-MW-30A				1146														016
19323-MW-30B		G	11/19/19	1202	GW	6		3	1	1	1							017
19323-Trip Blank-1		–	–	–	W	3		3										018
19323-Trip Blank-2		–	–	–	W	3		3										019
~~AA~~ NS																		

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/19/19	1730	FedEx	11/19/19	1730
2	FedEx	11-20-19	9:50	[signature]	11-20-19	9:50
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____

Advanced Environmental Labs Inc

Client: WASTE CONNECTIONS Project name: J.E.D. LANDFILL (F/K/A OAK...

Date/Time Rcvd: 11.20.19 /0950 Log-In request number: J1915228

Received by: BA Completed by: KE

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			X
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?		X	
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			X
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			X
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

SAMPLE : 19323-MW-17AR LABELED AS: 19323-MW-27AR;
COLLECTION DATE AND TIME AGREED WITH COC.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
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Fax (904) 363-9354

Project No.: J1915228

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for several target analytes in Continuing Calibration Verification (CCV) standards for analytical batch 4668, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

The Continuing Calibration Verification 2 (CCV2) standards were below the method acceptance of 80-120% for Bromomethane and Vinyl Acetate. The associated client samples were reanalyzed following a passing CCV. No futher corrective action necessary.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The spike recovery of Methyl tert-butyl Ether (MTBE) for the Laboratory Control Sample (LCS) was outside the upper control criterion. The analyte in question was not a target in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The relative percent difference (RPD) for Methyl tert-butyl Ether (MTBE) between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in LCS 3303318 in comparison with LCSD 3303319. The analyte in question was not a target in the assocaited client samples. No further corrective action was required.

The relative percent difference (RPD) for several analytes between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in LCS 3303318 in comparison with LCSD 3303319. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: J1915228008 was reanalyzed due to detections in the sample that do not match historical data.

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The reanalysis was performed from another vial and the detections were confirmed.

J1915228008 was reanalyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

G. Other:

Project No.: J1915228

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 350.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recovery of NH3 for J1915228007 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS), Matrix Spike Duplicate (MSD) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1915228

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recovery of Chloride for J1915228001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified accordingly.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
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Phone: (904)363-9350
Fax: (904)363-9354

December 13, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, November 21, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1915320001	19324-MW-1A	Water	11/20/2019 08:58	11/21/2019 08:45
J1915320002	19324-MW-1B	Water	11/20/2019 08:38	11/21/2019 08:45
J1915320003	19324-MW-2A	Water	11/20/2019 10:14	11/21/2019 08:45
J1915320004	19324-MW-2B	Water	11/20/2019 09:44	11/21/2019 08:45
J1915320005	19324-MW-3A	Water	11/20/2019 11:42	11/21/2019 08:45
J1915320006	19324-MW-3B	Water	11/20/2019 11:14	11/21/2019 08:45
J1915320007	19324-MW-4A	Water	11/20/2019 13:06	11/21/2019 08:45
J1915320008	19324-MW-4B	Water	11/20/2019 12:42	11/21/2019 08:45
J1915320009	19324-MW-5A	Water	11/20/2019 14:36	11/21/2019 08:45
J1915320010	19324-MW-5B	Water	11/20/2019 14:14	11/21/2019 08:45
J1915320011	19324-MW-9A	Water	11/20/2019 14:10	11/21/2019 08:45
J1915320012	19324-MW-9B	Water	11/20/2019 15:04	11/21/2019 08:45
J1915320013	19324-MW-11A	Water	11/20/2019 11:58	11/21/2019 08:45
J1915320014	19324-MW-11B	Water	11/20/2019 13:20	11/21/2019 08:45
J1915320015	19324-MW-12A	Water	11/20/2019 10:32	11/21/2019 08:45
J1915320016	19324-MW-12B	Water	11/20/2019 11:14	11/21/2019 08:45
J1915320017	19324-MW-13A	Water	11/20/2019 08:58	11/21/2019 08:45
J1915320018	19324-MW-13B	Water	11/20/2019 09:36	11/21/2019 08:45
J1915320019	19324-Dup-1	Water	11/20/2019 00:01	11/21/2019 08:45
J1915320020	19324-EQ-1	Water	11/19/2019 15:40	11/21/2019 08:45
J1915320021	19324-Trip Blank-3	Water	11/19/2019 00:00	11/21/2019 08:45
J1915320022	19324-Trip Blank-4	Water	11/19/2019 00:00	11/21/2019 08:45
J1915320023	19324-Trip Blank-5	Water	11/19/2019 00:00	11/21/2019 08:45

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320001** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-1A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**39**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:54	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:54	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:54	J
Chromium	**5.1**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:54	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:54	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:54	J
Iron	**6600**		**ug/L**	**1**	400	100	12/3/2019 14:54	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:54	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:54	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:54	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:54	J
Sodium	**240**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:54	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:54	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.15**	**I**	**ug/L**	**1**	0.70	0.11	12/4/2019 00:37	J
Arsenic	**1.7**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 00:37	J
Vanadium	**12**		**ug/L**	**1**	2.0	0.71	12/4/2019 00:37	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:10	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 09:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 09:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 09:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 09:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 09:28	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320001** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-1A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 09:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 09:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 09:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 09:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 09:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 09:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 09:28	J
Benzene	**2.3**		**ug/L**	**1**	1.0	0.16	11/28/2019 09:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 09:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 09:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 09:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 13:20	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 09:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 09:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 09:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 09:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 09:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 09:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 09:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 09:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 09:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 09:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 09:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 13:20	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 09:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 09:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 09:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 09:28	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		11/28/2019 09:28	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		11/28/2019 09:28	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320001** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-1A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		11/28/2019 09:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 09:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 09:28	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		11/28/2019 09:28	
Toluene-d8 (S)	**86**		**%**	**1**	80-121		11/28/2019 09:28	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/28/2019 09:28	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**410**		**mg/L**	**5**	25	2.5	11/21/2019 22:58	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/21/2019 22:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**5**	0.050	0.040	11/26/2019 14:22	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**970**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320002** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-1B** Date Collected: 11/20/19 08:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**40**		**ug/L**	**1**	4.0	1.0	12/3/2019 14:58	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 14:58	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 14:58	J
Chromium	**2.2**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:58	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 14:58	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320002** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-1B** Date Collected: 11/20/19 08:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:58	J
Iron	**5300**		**ug/L**	**1**	400	100	12/3/2019 14:58	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 14:58	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 14:58	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 14:58	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 14:58	J
Sodium	**64**		**mg/L**	**1**	1.4	0.35	12/3/2019 14:58	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 14:58	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:05	J
Arsenic	**1.2**		**ug/L**	**1**	1.0	0.077	12/10/2019 11:54	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:05	J
Vanadium	**4.7**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:05	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:23	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 09:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 09:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 09:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 09:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 09:58	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 09:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 09:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 09:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 09:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 09:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 09:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 09:58	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320002** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-1B** Date Collected: 11/20/19 08:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 09:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 09:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 09:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 09:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 13:49	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 09:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 09:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 09:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 09:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 09:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 09:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 09:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 09:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 09:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 09:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 09:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 09:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 09:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 13:49	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 09:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 09:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 09:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 09:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 09:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 09:58	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		11/28/2019 09:58	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		11/28/2019 09:58	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		11/28/2019 09:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 09:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 09:58	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	77-125		11/28/2019 09:58	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		11/28/2019 09:58	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		11/28/2019 09:58	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320002** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-1B** Date Collected: 11/20/19 08:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**90**	**J4**	**mg/L**	**1**	5.0	0.50	11/21/2019 23:21	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2019 23:21	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.9**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**440**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320003** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-2A** Date Collected: 11/20/19 10:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**72**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:01	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:01	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:01	J
Chromium	**2.5**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:01	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:01	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:01	J
Iron	**14000**		**ug/L**	**1**	400	100	12/3/2019 15:01	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:01	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:01	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:01	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:01	J
Sodium	**72**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:01	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:01	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320003** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-2A** Date Collected: 11/20/19 10:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:09	J
Arsenic	**0.83**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 11:58	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:09	J
Vanadium	**7.3**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:09	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:27	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 10:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 10:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 10:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 10:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 10:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 10:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 10:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 10:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 10:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 10:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 10:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 10:28	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 10:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 10:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 10:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 14:26	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 10:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 10:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 10:28	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320003** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-2A** Date Collected: 11/20/19 10:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 10:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 10:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 10:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 10:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 10:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 10:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 10:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 14:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 10:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 10:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 10:28	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		11/28/2019 10:28	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		11/28/2019 10:28	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		11/28/2019 10:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 10:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 10:28	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	77-125		11/28/2019 10:28	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		11/28/2019 10:28	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		11/28/2019 10:28	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**150**		**mg/L**	**1**	5.0	0.50	11/22/2019 00:07	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 00:07	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.0**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:39	G

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320003** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-2A** Date Collected: 11/20/19 10:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**560**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320004** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-2B** Date Collected: 11/20/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**43**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:04	J
Beryllium	**1.0**	**I**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:04	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:04	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:04	J
Cobalt	**6.6**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:04	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:04	J
Iron	**24000**		**ug/L**	**1**	400	100	12/3/2019 15:04	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:04	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:04	J
Sodium	**150**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:04	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.12**	**I**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:25	J
Arsenic	**1.2**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:25	J
Vanadium	**15**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:25	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320004** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-2B** Date Collected: 11/20/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:30	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	11/28/2019 10:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 10:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2019 10:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2019 10:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	11/28/2019 10:58	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	11/28/2019 10:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2019 10:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2019 10:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	11/28/2019 10:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2019 10:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2019 10:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2019 10:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2019 10:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	11/28/2019 10:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	11/28/2019 10:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 14:55	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	11/28/2019 10:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 10:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 10:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2019 10:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2019 10:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2019 10:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 10:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2019 10:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2019 10:58	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320004** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-2B** Date Collected: 11/20/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.99**	**I**	**ug/L**	**1**	1.0	0.23	11/28/2019 10:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2019 10:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2019 10:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 14:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2019 10:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2019 10:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2019 10:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2019 10:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2019 10:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2019 10:58	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		11/28/2019 10:58	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		11/28/2019 10:58	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		11/28/2019 10:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	11/28/2019 10:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/28/2019 10:58	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		11/28/2019 10:58	
Toluene-d8 (S)	**86**		**%**	**1**	80-121		11/28/2019 10:58	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		11/28/2019 10:58	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**260**		**mg/L**	**2**	10	1.0	11/22/2019 00:30	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 00:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.4**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:43	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**840**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320005** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-3A** Date Collected: 11/20/19 11:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**54**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:15	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:15	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:15	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:15	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:15	J
Copper	**4.0**	**I**	**ug/L**	**1**	16	4.0	12/3/2019 15:15	J
Iron	**3600**		**ug/L**	**1**	400	100	12/3/2019 15:15	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:15	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:15	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:15	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:15	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:15	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:15	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:29	J
Arsenic	**0.48**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:06	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:29	J
Vanadium	**2.7**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:29	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:33	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 18:14	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 18:14	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:14	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 18:14	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 18:14	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:14	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 18:14	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320005** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-3A** Date Collected: 11/20/19 11:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:14	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:14	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 18:14	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 18:14	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 18:14	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 18:14	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 18:14	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 18:14	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 18:14	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:14	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 18:14	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 18:14	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 18:14	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 18:14	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 18:14	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 18:14	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:14	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 18:14	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:14	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:14	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 18:14	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 18:14	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 18:14	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:14	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 18:14	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:14	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 18:14	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:14	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 18:14	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 18:14	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 18:14	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:14	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 18:14	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 18:14	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:14	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:14	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:14	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 18:14	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/2/2019 18:14	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 18:14	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320005** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-3A** Date Collected: 11/20/19 11:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/2/2019 18:14	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 18:14	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 18:14	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		12/2/2019 18:14	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/2/2019 18:14	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/2/2019 18:14	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**38**		**mg/L**	**2**	10	1.0	11/22/2019 00:53	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 00:53	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.0**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:52	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320006** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-3B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**40**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:18	J
Beryllium	**2.2**		**ug/L**	**1**	2.0	0.50	12/3/2019 15:18	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:18	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:18	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:18	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320006** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-3B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:18	J
Iron	**1700**		**ug/L**	**1**	400	100	12/3/2019 15:18	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:18	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:18	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:18	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:18	J
Sodium	**95**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:18	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:18	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:33	J
Arsenic	**0.79**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:10	J
Thallium	**0.060**	**I**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:33	J
Vanadium	**9.3**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:43	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 18:50	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 18:50	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:50	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 18:50	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 18:50	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:50	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 18:50	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:50	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:50	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 18:50	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 18:50	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 18:50	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 18:50	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 18:50	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 18:50	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 18:50	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320006** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-3B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:50	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 18:50	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 18:50	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 18:50	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 18:50	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 18:50	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 18:50	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:50	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 18:50	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 18:50	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:50	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 18:50	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 18:50	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 18:50	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:50	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 18:50	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:50	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 18:50	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 18:50	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 18:50	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 18:50	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 18:50	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:50	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 18:50	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 18:50	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 18:50	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 18:50	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 18:50	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 18:50	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		12/2/2019 18:50	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/2/2019 18:50	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		12/2/2019 18:50	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 18:50	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 18:50	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		12/2/2019 18:50	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/2/2019 18:50	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		12/2/2019 18:50	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320006** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-3B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**130**		**mg/L**	**5**	25	2.5	11/22/2019 01:16	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/22/2019 01:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**10**	0.10	0.080	11/26/2019 16:53	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1500**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320007** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-4A** Date Collected: 11/20/19 13:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**55**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:22	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:22	J
Iron	**3900**		**ug/L**	**1**	400	100	12/3/2019 15:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:22	J
Sodium	**49**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:22	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320007** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-4A** Date Collected: 11/20/19 13:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:37	J
Arsenic	**1.6**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:14	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:37	J
Vanadium	**2.0**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 01:37	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:46	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 19:20	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 19:20	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:20	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 19:20	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 19:20	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:20	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 19:20	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:20	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:20	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 19:20	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 19:20	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 19:20	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 19:20	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 19:20	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 19:20	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 19:20	J
Benzene	**0.86**	**I**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:20	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 19:20	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 19:20	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 19:20	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 19:20	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 19:20	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 19:20	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:20	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 19:20	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320007** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-4A** Date Collected: 11/20/19 13:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:20	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:20	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 19:20	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 19:20	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 19:20	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:20	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 19:20	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:20	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 19:20	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:20	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 19:20	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 19:20	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 19:20	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:20	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 19:20	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 19:20	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:20	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:20	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:20	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 19:20	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		12/2/2019 19:20	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/2/2019 19:20	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		12/2/2019 19:20	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 19:20	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 19:20	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/2/2019 19:20	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/2/2019 19:20	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/2/2019 19:20	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**90**		**mg/L**	**2**	10	1.0	11/22/2019 01:40	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 01:40	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**10**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:55	G

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320007** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-4A** Date Collected: 11/20/19 13:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**900**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320008** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-4B** Date Collected: 11/20/19 12:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**53**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:25	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:25	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:25	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:25	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:25	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:25	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	12/3/2019 15:25	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:25	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:25	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:25	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:25	J
Sodium	**140**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:25	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:25	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**1.6**		**ug/L**	**1**	0.70	0.11	12/4/2019 01:42	J
Arsenic	**3.4**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:18	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:42	J
Vanadium	**11**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:42	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320008** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-4B** Date Collected: 11/20/19 12:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:49	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 19:56	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 19:56	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:56	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 19:56	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 19:56	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:56	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 19:56	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:56	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:56	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 19:56	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 19:56	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 19:56	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 19:56	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 19:56	J
Acetone	**5.4**		**ug/L**	**1**	5.0	2.1	12/2/2019 19:56	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 19:56	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:56	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 19:56	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 19:56	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 19:56	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 19:56	J
Carbon Disulfide	**1.0**		**ug/L**	**1**	1.0	0.67	12/2/2019 19:56	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 19:56	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:56	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 19:56	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 19:56	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:56	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 19:56	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 19:56	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 19:56	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:56	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 19:56	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:56	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 19:56	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320008** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-4B** Date Collected: 11/20/19 12:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 19:56	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 19:56	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 19:56	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 19:56	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:56	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 19:56	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 19:56	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 19:56	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 19:56	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 19:56	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 19:56	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/2/2019 19:56	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 19:56	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/2/2019 19:56	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 19:56	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 19:56	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		12/2/2019 19:56	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/2/2019 19:56	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/2/2019 19:56	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**490**		**mg/L**	**10**	50	5.0	11/22/2019 02:03	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/22/2019 02:03	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**12**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:56	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1700**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320009** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-5A** Date Collected: 11/20/19 14:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**12**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:29	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:29	J
Iron	**470**		**ug/L**	**1**	400	100	12/3/2019 15:29	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:29	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:29	J
Sodium	**77**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:29	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:47	J
Arsenic	**0.88**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:22	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:47	J
Vanadium	**0.93**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 01:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:52	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 20:26	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 20:26	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 20:26	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 20:26	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 20:26	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 20:26	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 20:26	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320009** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-5A** Date Collected: 11/20/19 14:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 20:26	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 20:26	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 20:26	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 20:26	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 20:26	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 20:26	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 20:26	J
Acetone	**6.9**		**ug/L**	**1**	5.0	2.1	12/2/2019 20:26	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 20:26	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 20:26	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 20:26	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 20:26	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 20:26	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 20:26	J
Carbon Disulfide	**0.95**	**I**	**ug/L**	**1**	1.0	0.67	12/2/2019 20:26	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 20:26	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 20:26	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 20:26	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 20:26	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 20:26	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 20:26	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 20:26	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 20:26	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 20:26	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 20:26	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 20:26	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 20:26	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 20:26	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 20:26	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 20:26	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 20:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 20:26	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 20:26	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 20:26	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 20:26	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 20:26	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 20:26	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 20:26	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		12/2/2019 20:26	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 20:26	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320009** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-5A** Date Collected: 11/20/19 14:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/2/2019 20:26	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 20:26	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 20:26	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		12/2/2019 20:26	
Toluene-d8 (S)	**83**		**%**	**1**	80-121		12/2/2019 20:26	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/2/2019 20:26	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**130**		**mg/L**	**1**	5.0	0.50	11/22/2019 03:12	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 03:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.6**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:57	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**610**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320010** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-5B** Date Collected: 11/20/19 14:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**46**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:32	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:32	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:32	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:32	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320010** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-5B** Date Collected: 11/20/19 14:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:32	J
Iron	**120**	**I**	**ug/L**	**1**	400	100	12/3/2019 15:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:32	J
Sodium	**82**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:32	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:51	J
Arsenic	**0.74**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:38	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:51	J
Vanadium	**4.0**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:56	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 21:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 21:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 21:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 21:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:03	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 21:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:03	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 21:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 21:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 21:03	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 21:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 21:03	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 21:03	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 21:03	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320010** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-5B** Date Collected: 11/20/19 14:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 21:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 21:03	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 21:03	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 21:03	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 21:03	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 21:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 21:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 21:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:03	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 21:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 21:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 21:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 21:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 21:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 21:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 21:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 21:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 21:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 21:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 21:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 21:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:03	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 21:03	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/2/2019 21:03	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 21:03	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		12/2/2019 21:03	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 21:03	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 21:03	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		12/2/2019 21:03	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/2/2019 21:03	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		12/2/2019 21:03	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320010** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-5B** Date Collected: 11/20/19 14:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**540**		**mg/L**	**20**	100	10	11/22/2019 03:35	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	11/22/2019 03:35	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.2**		**mg/L**	**25**	0.25	0.20	11/26/2019 16:58	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320011** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-9A** Date Collected: 11/20/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**7.1**		**ug/L**	**1**	4.0	1.0	12/3/2019 15:35	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	12/3/2019 15:35	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	12/3/2019 15:35	J
Chromium	**3.9**	**I**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:35	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	12/3/2019 15:35	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:35	J
Iron	**610**		**ug/L**	**1**	400	100	12/3/2019 15:35	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	12/3/2019 15:35	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	12/3/2019 15:35	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	12/3/2019 15:35	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	12/3/2019 15:35	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	12/3/2019 15:35	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	12/3/2019 15:35	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320011** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-9A** Date Collected: 11/20/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:55	J
Arsenic	**1.4**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:42	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:55	J
Vanadium	**3.4**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 15:59	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 21:32	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 21:32	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:32	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 21:32	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 21:32	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:32	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 21:32	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:32	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:32	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 21:32	J
1,4-Dichlorobenzene	**1.8**		**ug/L**	**1**	1.0	0.22	12/2/2019 21:32	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 21:32	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 21:32	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 21:32	J
Acetone	**6.6**		**ug/L**	**1**	5.0	2.1	12/2/2019 21:32	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 21:32	J
Benzene	**11**		**ug/L**	**1**	1.0	0.16	12/2/2019 21:32	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 21:32	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 21:32	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 21:32	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 21:32	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 21:32	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 21:32	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:32	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 21:32	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320011** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-9A** Date Collected: 11/20/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 21:32	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:32	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 21:32	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 21:32	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 21:32	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 21:32	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 21:32	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:32	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 21:32	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 21:32	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 21:32	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 21:32	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 21:32	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:32	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 21:32	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 21:32	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 21:32	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 21:32	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 21:32	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 21:32	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/2/2019 21:32	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/2/2019 21:32	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/2/2019 21:32	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 21:32	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 21:32	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		12/2/2019 21:32	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/2/2019 21:32	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		12/2/2019 21:32	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	11/22/2019 03:58	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 03:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.7**		**mg/L**	**5**	0.050	0.040	11/26/2019 16:59	G

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320011** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-9A** Date Collected: 11/20/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320012** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-9B** Date Collected: 11/20/19 15:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**48**		**ug/L**	**1**	4.0	1.0	11/26/2019 21:32	J
Beryllium	**0.80**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 21:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 21:32	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:32	J
Cobalt	**3.0**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:32	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:39	J
Iron	**7800**		**ug/L**	**1**	400	100	11/26/2019 21:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 21:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 21:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 21:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 21:32	J
Sodium	**38**		**mg/L**	**1**	1.4	0.35	11/26/2019 21:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 21:32	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 01:59	J
Arsenic	**0.49**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:46	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 01:59	J
Vanadium	**3.2**		**ug/L**	**1**	2.0	0.71	12/4/2019 01:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320012** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-9B** Date Collected: 11/20/19 15:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:02	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 00:38	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 00:38	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 00:38	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 00:38	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 00:38	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 00:38	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 00:38	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 00:38	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 00:38	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 00:38	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 00:38	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 00:38	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 00:38	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 00:38	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 00:38	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 00:38	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 00:38	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 00:38	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 00:38	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 00:38	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 00:38	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 00:38	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 00:38	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 00:38	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 00:38	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 00:38	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 00:38	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 00:38	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 00:38	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 00:38	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 00:38	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 00:38	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 00:38	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 00:38	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320012** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-9B** Date Collected: 11/20/19 15:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 00:38	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 00:38	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 00:38	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 00:38	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 00:38	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 00:38	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 00:38	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 00:38	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 00:38	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 00:38	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 00:38	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	70-128		12/3/2019 00:38	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 00:38	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 00:38	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 00:38	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 00:38	J
1,2-Dichloroethane-d4 (S)	**81**		**%**	**1**	77-125		12/3/2019 00:38	
Toluene-d8 (S)	**86**		**%**	**1**	80-121		12/3/2019 00:38	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 00:38	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**68**	**J4**	**mg/L**	**1**	5.0	0.50	11/22/2019 04:21	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	11/22/2019 04:21	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**5**	0.050	0.040	11/26/2019 14:47	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**340**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320013** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-11A** Date Collected: 11/20/19 11:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**31**		**ug/L**	**1**	4.0	1.0	11/26/2019 21:37	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 21:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 21:37	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:37	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:42	J
Iron	**11000**		**ug/L**	**1**	400	100	11/26/2019 21:37	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 21:37	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 21:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 21:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 21:37	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	11/26/2019 21:37	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 21:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:03	J
Arsenic	**2.1**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:03	J
Vanadium	**3.9**		**ug/L**	**1**	2.0	0.71	12/4/2019 02:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:05	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 01:08	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 01:08	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:08	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 01:08	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 01:08	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:08	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 01:08	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320013** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-11A** Date Collected: 11/20/19 11:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:08	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:08	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 01:08	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 01:08	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 01:08	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 01:08	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 01:08	J
Acetone	**4.6**	**I**	**ug/L**	**1**	5.0	2.1	12/3/2019 01:08	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 01:08	J
Benzene	**2.5**		**ug/L**	**1**	1.0	0.16	12/3/2019 01:08	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 01:08	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 01:08	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 01:08	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 01:08	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 01:08	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 01:08	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:08	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 01:08	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:08	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:08	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 01:08	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 01:08	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 01:08	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 01:08	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 01:08	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:08	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 01:08	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:08	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 01:08	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 01:08	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 01:08	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:08	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 01:08	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 01:08	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 01:08	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:08	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:08	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 01:08	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		12/3/2019 01:08	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 01:08	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320013** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-11A** Date Collected: 11/20/19 11:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/3/2019 01:08	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 01:08	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 01:08	J
1,2-Dichloroethane-d4 (S)	**83**		**%**	**1**	77-125		12/3/2019 01:08	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/3/2019 01:08	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 01:08	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**14**		**mg/L**	**1**	5.0	0.50	11/22/2019 05:07	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 05:07	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.5**		**mg/L**	**5**	0.050	0.040	11/26/2019 14:57	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**320**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320014** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-11B** Date Collected: 11/20/19 13:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**17**		**ug/L**	**1**	4.0	1.0	11/26/2019 21:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 21:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 21:41	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:41	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:41	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320014** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-11B** Date Collected: 11/20/19 13:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:53	J
Iron	**460**		**ug/L**	**1**	400	100	11/26/2019 21:41	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 21:41	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 21:41	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 21:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 21:41	J
Sodium	**16**		**mg/L**	**1**	1.4	0.35	11/26/2019 21:41	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 21:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:19	J
Arsenic	**0.69**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 12:53	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:19	J
Vanadium	**1.2**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 02:19	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:09	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 01:39	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 01:39	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:39	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 01:39	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 01:39	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:39	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 01:39	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:39	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:39	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 01:39	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 01:39	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 01:39	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 01:39	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 01:39	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 01:39	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 01:39	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320014** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-11B** Date Collected: 11/20/19 13:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 01:39	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 01:39	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 01:39	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 01:39	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 01:39	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 01:39	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 01:39	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:39	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 01:39	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 01:39	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:39	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 01:39	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 01:39	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 01:39	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 01:39	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 01:39	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:39	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 01:39	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 01:39	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 01:39	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 01:39	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 01:39	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:39	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 01:39	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 01:39	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 01:39	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 01:39	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 01:39	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 01:39	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		12/3/2019 01:39	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 01:39	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/3/2019 01:39	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 01:39	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 01:39	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		12/3/2019 01:39	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/3/2019 01:39	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		12/3/2019 01:39	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320014** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-11B** Date Collected: 11/20/19 13:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**25**		**mg/L**	**1**	5.0	0.50	11/22/2019 05:30	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 05:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	11/26/2019 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**72**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320015** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-12A** Date Collected: 11/20/19 10:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**240**		**ug/L**	**1**	4.0	1.0	11/26/2019 21:46	J
Beryllium	**0.50**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 21:46	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 21:46	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:46	J
Cobalt	**4.7**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 21:46	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 15:57	J
Iron	**12000**		**ug/L**	**1**	400	100	11/26/2019 21:46	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 21:46	J
Nickel	**9.8**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 21:46	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 21:46	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 21:46	J
Sodium	**270**		**mg/L**	**1**	1.4	0.35	11/26/2019 21:46	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 21:46	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320015** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-12A** Date Collected: 11/20/19 10:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.21**	**I**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:24	J
Arsenic	**1.7**		**ug/L**	**1**	1.0	0.077	12/10/2019 12:57	J
Thallium	**0.077**	**I**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:24	J
Vanadium	**7.4**		**ug/L**	**1**	2.0	0.71	12/4/2019 02:24	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:12	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 02:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 02:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 02:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 02:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:10	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 02:10	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:10	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 02:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 02:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 02:10	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 02:10	J
4-Methyl-2-pentanone (MIBK)	**1.5**		**ug/L**	**1**	1.0	0.47	12/3/2019 02:10	J
Acetone	**4.6**	**I**	**ug/L**	**1**	5.0	2.1	12/3/2019 02:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 02:10	J
Benzene	**5.7**		**ug/L**	**1**	1.0	0.16	12/3/2019 02:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 02:10	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 02:10	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 02:10	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 02:10	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 02:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 02:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 02:10	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320015** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-12A** Date Collected: 11/20/19 10:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 02:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 02:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 02:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 02:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 02:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 02:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 02:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 02:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 02:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 02:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 02:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 02:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:10	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 02:10	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		12/3/2019 02:10	
Toluene-d8 (S)	**83**		**%**	**1**	77-119		12/3/2019 02:10	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/3/2019 02:10	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 02:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 02:10	J
1,2-Dichloroethane-d4 (S)	**83**		**%**	**1**	77-125		12/3/2019 02:10	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		12/3/2019 02:10	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		12/3/2019 02:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**500**		**mg/L**	**5**	25	2.5	11/22/2019 05:53	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/22/2019 05:53	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.7**		**mg/L**	**25**	0.25	0.20	11/26/2019 17:00	G

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320015** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-12A** Date Collected: 11/20/19 10:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**890**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320016** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-12B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**20**		**ug/L**	**1**	4.0	1.0	11/26/2019 17:32	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 17:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:32	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:32	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:32	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:41	J
Iron	**660**		**ug/L**	**1**	400	100	11/26/2019 17:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 17:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 17:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 17:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 17:32	J
Sodium	**7.3**		**mg/L**	**1**	1.4	0.35	11/26/2019 17:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 17:32	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:28	J
Arsenic	**0.22**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 13:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:28	J
Vanadium	**0.91**	**I**	**ug/L**	**1**	2.0	0.71	12/4/2019 02:28	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320016** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-12B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:22	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 02:42	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 02:42	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:42	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 02:42	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 02:42	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:42	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 02:42	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:42	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:42	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 02:42	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 02:42	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 02:42	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 02:42	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 02:42	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 02:42	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 02:42	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 02:42	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 02:42	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 02:42	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 02:42	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 02:42	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 02:42	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 02:42	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:42	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 02:42	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 02:42	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:42	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 02:42	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 02:42	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 02:42	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 02:42	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 02:42	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:42	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 02:42	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320016** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-12B** Date Collected: 11/20/19 11:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 02:42	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 02:42	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 02:42	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 02:42	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:42	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 02:42	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 02:42	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 02:42	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 02:42	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 02:42	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 02:42	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		12/3/2019 02:42	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 02:42	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 02:42	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 02:42	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 02:42	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		12/3/2019 02:42	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		12/3/2019 02:42	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 02:42	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**14**		**mg/L**	**1**	5.0	0.50	11/22/2019 06:16	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 06:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	11/26/2019 17:02	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**60**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320017** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-13A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**370**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:04	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:04	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:04	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:04	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:04	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:51	J
Iron	**29000**		**ug/L**	**1**	400	100	11/26/2019 18:04	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:04	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:04	J
Sodium	**500**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:04	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:32	J
Arsenic	**7.7**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:06	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:32	J
Vanadium	**8.4**		**ug/L**	**1**	2.0	0.71	12/4/2019 02:32	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:25	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 03:14	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 03:14	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 03:14	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 03:14	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 03:14	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 03:14	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 03:14	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320017** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-13A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 03:14	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 03:14	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 03:14	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 03:14	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 03:14	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 03:14	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 03:14	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 03:14	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 03:14	J
Benzene	**4.8**		**ug/L**	**1**	1.0	0.16	12/3/2019 03:14	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 03:14	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 03:14	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 03:14	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 03:14	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 03:14	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 03:14	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 03:14	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 03:14	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 03:14	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 03:14	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 03:14	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 03:14	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 03:14	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 03:14	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 03:14	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 03:14	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 03:14	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 03:14	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 03:14	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 03:14	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 03:14	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 03:14	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 03:14	J
cis-1,2-Dichloroethylene	**0.49**	**I**	**ug/L**	**1**	1.0	0.24	12/3/2019 03:14	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 03:14	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 03:14	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 03:14	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 03:14	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		12/3/2019 03:14	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 03:14	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320017** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-13A** Date Collected: 11/20/19 08:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/3/2019 03:14	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 03:14	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 03:14	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		12/3/2019 03:14	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 03:14	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 03:14	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**990**		**mg/L**	**20**	100	10	11/22/2019 06:39	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	11/22/2019 06:39	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**11**		**mg/L**	**25**	0.25	0.20	11/26/2019 17:03	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1900**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320018** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-13B** Date Collected: 11/20/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**13**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:09	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320018** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-13B** Date Collected: 11/20/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:55	J
Iron	**1100**		**ug/L**	**1**	400	100	11/26/2019 18:09	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:09	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:09	J
Sodium	**10**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:09	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:36	J
Arsenic	**0.20**	**I**	**ug/L**	**1**	1.0	0.077	12/10/2019 13:10	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:36	J
Vanadium	**0.71**	**U**	**ug/L**	**1**	2.0	0.71	12/4/2019 02:36	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:28	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 04:49	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 04:49	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 04:49	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 04:49	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 04:49	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 04:49	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 04:49	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 04:49	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 04:49	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 04:49	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 04:49	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 04:49	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 04:49	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 04:49	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 04:49	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 04:49	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320018** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-MW-13B** Date Collected: 11/20/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 04:49	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 04:49	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 04:49	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 04:49	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 04:49	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 04:49	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 04:49	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 04:49	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 04:49	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 04:49	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 04:49	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 04:49	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 04:49	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 04:49	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 04:49	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 04:49	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 04:49	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 04:49	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 04:49	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 04:49	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 04:49	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 04:49	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 04:49	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 04:49	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 04:49	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 04:49	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 04:49	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 04:49	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 04:49	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		12/3/2019 04:49	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 04:49	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/3/2019 04:49	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 04:49	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 04:49	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		12/3/2019 04:49	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/3/2019 04:49	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 04:49	

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320018** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-MW-13B** Date Collected: 11/20/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**22**		**mg/L**	**1**	5.0	0.50	11/22/2019 07:02	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 07:02	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	11/26/2019 17:12	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**77**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320019** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Dup-1** Date Collected: 11/20/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**7.0**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:14	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:14	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:14	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:14	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:14	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:04	J
Iron	**600**		**ug/L**	**1**	400	100	11/26/2019 18:14	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:14	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:14	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:14	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:14	J
Sodium	**19**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:14	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:14	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320019** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-Dup-1** Date Collected: 11/20/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:40	J
Arsenic	**1.5**		**ug/L**	**1**	1.0	0.077	12/10/2019 13:14	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:40	J
Vanadium	**3.7**		**ug/L**	**1**	2.0	0.71	12/4/2019 02:40	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:31	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 05:20	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 05:20	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 05:20	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 05:20	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 05:20	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 05:20	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 05:20	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 05:20	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 05:20	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 05:20	J
1,4-Dichlorobenzene	**1.5**		**ug/L**	**1**	1.0	0.22	12/3/2019 05:20	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 05:20	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 05:20	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 05:20	J
Acetone	**5.5**		**ug/L**	**1**	5.0	2.1	12/3/2019 05:20	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 05:20	J
Benzene	**8.6**		**ug/L**	**1**	1.0	0.16	12/3/2019 05:20	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 05:20	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 05:20	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 05:20	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 05:20	J
Carbon Disulfide	**0.70**	**I**	**ug/L**	**1**	1.0	0.67	12/3/2019 05:20	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 05:20	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 05:20	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 05:20	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320019** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-Dup-1** Date Collected: 11/20/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 05:20	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 05:20	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 05:20	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 05:20	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 05:20	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 05:20	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 05:20	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 05:20	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 05:20	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 05:20	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 05:20	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 05:20	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 05:20	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 05:20	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 05:20	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 05:20	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 05:20	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 05:20	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 05:20	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 05:20	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		12/3/2019 05:20	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		12/3/2019 05:20	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 05:20	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 05:20	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 05:20	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/3/2019 05:20	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 05:20	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		12/3/2019 05:20	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	11/22/2019 10:50	J
Nitrate (as N)	**0.050**	**U,Q**	**mg/L**	**1**	0.50	0.050	11/22/2019 10:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.6**		**mg/L**	**5**	0.050	0.040	11/26/2019 15:06	G

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320019** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Dup-1** Date Collected: 11/20/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**200**		**mg/L**	**1**	10	10	11/26/2019 16:00	J

Lab ID: **J1915320020** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-EQ-1** Date Collected: 11/19/19 15:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:18	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:18	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:18	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:18	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:18	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:07	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	11/26/2019 18:18	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:18	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:18	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:18	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:18	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	11/26/2019 18:18	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:18	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/4/2019 02:46	J
Arsenic	**0.077**	**U**	**ug/L**	**1**	1.0	0.077	12/10/2019 13:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/4/2019 02:46	J
Vanadium	**0.71**	**U**	**ug/L**	**1**	2.0	0.71	12/4/2019 02:46	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320020** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-EQ-1** Date Collected: 11/19/19 15:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	11/26/2019 16:35	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 17:44	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 17:44	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:44	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 17:44	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 17:44	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:44	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 17:44	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:44	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:44	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 17:44	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 17:44	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 17:44	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 17:44	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 17:44	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 17:44	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 17:44	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:44	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 17:44	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 17:44	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 17:44	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 17:44	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 17:44	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 17:44	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:44	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 17:44	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:44	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:44	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 17:44	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 17:44	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 17:44	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:44	J
Methylene Chloride	**2.6**	**I**	**ug/L**	**1**	5.0	2.5	12/2/2019 17:44	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:44	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 17:44	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320020** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-EQ-1** Date Collected: 11/19/19 15:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:44	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 17:44	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 17:44	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 17:44	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:44	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 17:44	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 17:44	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:44	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:44	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:44	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 17:44	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		12/2/2019 17:44	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 17:44	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		12/2/2019 17:44	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 17:44	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 17:44	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/2/2019 17:44	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/2/2019 17:44	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		12/2/2019 17:44	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	11/22/2019 11:13	J
Nitrate (as N)	**0.056**	**I,Q**	**mg/L**	**1**	0.50	0.050	11/22/2019 11:13	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	11/26/2019 15:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	11/25/2019 14:30	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320021** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-Trip Blank-3** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 16:01	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 16:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:01	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 16:01	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 16:01	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:01	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 16:01	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:01	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:01	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 16:01	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 16:01	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 16:01	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 16:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 16:01	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 16:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 16:01	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:01	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 16:01	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 16:01	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 16:01	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 16:01	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 16:01	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 16:01	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:01	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 16:01	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:01	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:01	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 16:01	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 16:01	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 16:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:01	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 16:01	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:01	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 16:01	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:01	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 16:01	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320021** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Trip Blank-3** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 16:01	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 16:01	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:01	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 16:01	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 16:01	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:01	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:01	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 16:01	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/2/2019 16:01	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/2/2019 16:01	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		12/2/2019 16:01	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 16:01	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 16:01	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		12/2/2019 16:01	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/2/2019 16:01	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		12/2/2019 16:01	

Lab ID: **J1915320022** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Trip Blank-4** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 16:38	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 16:38	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:38	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 16:38	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 16:38	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:38	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320022** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-Trip Blank-4** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 16:38	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:38	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:38	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 16:38	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 16:38	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 16:38	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 16:38	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 16:38	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 16:38	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 16:38	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:38	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 16:38	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 16:38	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 16:38	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 16:38	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 16:38	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 16:38	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:38	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 16:38	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 16:38	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:38	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 16:38	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 16:38	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 16:38	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:38	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 16:38	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:38	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 16:38	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 16:38	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 16:38	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 16:38	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 16:38	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:38	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 16:38	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 16:38	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 16:38	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 16:38	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 16:38	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 16:38	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		12/2/2019 16:38	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320022** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Trip Blank-4** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 16:38	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		12/2/2019 16:38	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 16:38	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 16:38	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		12/2/2019 16:38	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		12/2/2019 16:38	
Bromofluorobenzene (S)	**107**		**%**	**1**	80-129		12/2/2019 16:38	

Lab ID: **J1915320023** Date Received: 11/21/19 08:45 Matrix: Water
Sample ID: **19324-Trip Blank-5** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/2/2019 17:08	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 17:08	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:08	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/2/2019 17:08	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/2/2019 17:08	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:08	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/2/2019 17:08	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:08	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:08	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/2/2019 17:08	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/2/2019 17:08	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/2/2019 17:08	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/2/2019 17:08	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/2/2019 17:08	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/2/2019 17:08	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/2/2019 17:08	J

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ANALYTICAL RESULTS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915320023** Date Received: 11/21/19 08:45 Matrix: Water

Sample ID: **19324-Trip Blank-5** Date Collected: 11/19/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:08	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/2/2019 17:08	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/2/2019 17:08	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/2/2019 17:08	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 17:08	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/2/2019 17:08	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 17:08	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:08	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 17:08	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/2/2019 17:08	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:08	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/2/2019 17:08	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/2/2019 17:08	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 17:08	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:08	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/2/2019 17:08	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:08	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/2/2019 17:08	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/2/2019 17:08	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/2/2019 17:08	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/2/2019 17:08	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/2/2019 17:08	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:08	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/2/2019 17:08	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/2/2019 17:08	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/2/2019 17:08	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/2/2019 17:08	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/2/2019 17:08	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/2/2019 17:08	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		12/2/2019 17:08	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/2/2019 17:08	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		12/2/2019 17:08	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/2/2019 17:08	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/2/2019 17:08	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		12/2/2019 17:08	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/2/2019 17:08	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		12/2/2019 17:08	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Q	Missed Hold Time
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/6796 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008,

METHOD BLANK: 3298159

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3298160 3298161

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	20	19	98	95	90-110	3	10	
Nitrate (as N)	mg/L	2	1.9	1.9	96	94	90-110	3	10	

MATRIX SPIKE SAMPLE: 3298162 Original: J1915320002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	90	20	110	88	90-110	
Nitrate (as N)	mg/L	0	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 3298163 Original: J1915320012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	68	20	83	74	90-110	
Nitrate (as N)	mg/L	0.026	2	1.8	88	90-110	

QC Batch: DGMj/4305 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30
Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008,

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300338

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

LABORATORY CONTROL SAMPLE: 3300339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	102	80-120	
Barium	ug/L	20	21	104	80-120	
Beryllium	ug/L	10	10	101	80-120	
Cadmium	ug/L	20	20	102	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	41	102	80-120	
Copper	ug/L	80	82	103	80-120	
Iron	ug/L	2000	2100	104	80-120	
Sodium	mg/L	7	6.5	93	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	101	80-120	
Selenium	ug/L	800	790	99	80-120	
Zinc	ug/L	1000	1000	102	80-120	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300340 3300341 Original: J1915228014

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0.6	200	200	200	99	98	75-125	2	20	
Barium	ug/L	52	20	70	68	90	82	75-125	2	20	
Beryllium	ug/L	0	10	10	9.9	100	99	75-125	1	20	
Cadmium	ug/L	0	20	20	19	98	97	75-125	2	20	
Cobalt	ug/L	0	40	40	40	100	99	75-125	1	20	
Chromium	ug/L	2	40	41	41	97	97	75-125	0	20	
Copper	ug/L	0.7	80	80	79	100	99	75-125	1	20	
Iron	ug/L	2200	2000	4200	4100	99	96	75-125	2	20	
Sodium	mg/L	15	7	21	21	88	81	75-125	3	20	
Nickel	ug/L	3.2	120	120	120	103	102	75-125	1	20	
Lead	ug/L	2.2	60	61	59	101	99	75-125	2	20	
Selenium	ug/L	0	800	790	780	98	97	75-125	1	20	
Zinc	ug/L	6.3	1000	1000	1000	102	101	75-125	1	20	

QC Batch: DGMj/4306 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30

Associated Lab Samples: J1915320016, J1915320017, J1915320018, J1915320019, J1915320020

METHOD BLANK: 3300342

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	102	80-120	
Barium	ug/L	20	20	103	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	100	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	40	99	80-120	
Copper	ug/L	80	93	116	80-120	
Iron	ug/L	2000	2000	98	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	120	104	80-120	
Lead	ug/L	60	58	97	80-120	
Selenium	ug/L	800	780	98	80-120	
Zinc	ug/L	1000	1000	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300344 3300345 Original: J1915320016

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	200	99	101	75-125	2	20	
Barium	ug/L	20	20	39	40	99	101	75-125	1	20	
Beryllium	ug/L	0	10	9.7	9.9	97	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	98	99	75-125	1	20	
Cobalt	ug/L	0.2	40	40	40	101	101	75-125	0	20	
Chromium	ug/L	0	40	37	40	94	100	75-125	6	20	
Copper	ug/L	0.8	80	90	92	113	115	75-125	1	20	
Iron	ug/L	660	2000	2600	2600	97	99	75-125	1	20	
Sodium	mg/L	7.3	7	14	14	94	96	75-125	1	20	
Nickel	ug/L	1.7	120	120	130	103	105	75-125	1	20	
Lead	ug/L	0	60	63	63	105	104	75-125	1	20	
Selenium	ug/L	0	800	770	790	97	99	75-125	2	20	
Zinc	ug/L	9.3	1000	1000	1000	103	104	75-125	1	20	

QC Batch: WCAj/6823 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1915320020

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300598

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3300599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	320	105	85-115	

SAMPLE DUPLICATE: 3300600 Original: J1915294013

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	540	540	1	10	

QC Batch: DGMj/4315 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/26/2019 03:30

Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008,

METHOD BLANK: 3301201

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	0.71	0.71	U
Arsenic	ug/L	0.077	0.077	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3301202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Vanadium	ug/L	50	48	97	80-120	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3301202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	50	50	100	80-120	
Antimony	ug/L	50	48	97	80-120	
Thallium	ug/L	50	47	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301203 3301204 Original: J1915320001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Vanadium	ug/L	11	50	55	56	88	90	75-125	2	20	
Arsenic	ug/L	1.7	50	49	49	94	94	75-125	0	20	
Antimony	ug/L	0.075	50	51	51	101	101	75-125	0	20	
Thallium	ug/L	0.01	50	48	48	97	96	75-125	1	20	

QC Batch: DGMj/4318 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 11/26/2019 11:25

Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008,

METHOD BLANK: 3301815

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3301816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	2.0	100	80-120	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301817 3301818 Original: J1915320001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	1.7	1.7	86	83	80-120	3	20	

QC Batch: WCAg/8893 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915320001, J1915320002

METHOD BLANK: 3301971

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3301972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.51	102	90-110	

LABORATORY CONTROL SAMPLE: 3301973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301974 3301975 Original: J1915227003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	6.8	10	15	15	85	85	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAg/8894 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008, J1915320009, J1915320010,

METHOD BLANK: 3301982

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3301983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.50	101	90-110	

LABORATORY CONTROL SAMPLE: 3301984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.22	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301985 3301986 Original: J1915320003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	7	10	16	16	92	92	90-110	0	10	

QC Batch: WCAg/8895 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915320013, J1915320014, J1915320015, J1915320016, J1915320017, J1915320018, J1915320019, J1915320020

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3302007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3302008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.50	100	90-110	

LABORATORY CONTROL SAMPLE: 3302009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302010 3302011 Original: J1915320013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	4.5	2	6.5	6.5	98	98	90-110	0	10	

QC Batch: WCAj/6850 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004, J1915320005, J1915320006, J1915320007, J1915320008,

METHOD BLANK: 3302962

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3302963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

SAMPLE DUPLICATE: 3302964 Original: J1915294001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	150	150	1	10	

QC Batch: WCAj/6851 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1915320018, J1915320019

METHOD BLANK: 3302971

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3302972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	102	85-115	

SAMPLE DUPLICATE: 3302973 Original: J1915320018

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	77	75	3	10	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: MSVj/4675 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 11/26/2019 18:45
Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004

METHOD BLANK: 3303348

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	81	77-125	
Toluene-d8 (S)	%	93	80-121	
Bromofluorobenzene (S)	%	102	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3303349 3303350

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.70	0.87	88	109	70-130	22	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.74	0.77	93	96	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%				81	97	77-125	17		
Toluene-d8 (S)	%				89	89	80-121	0		
Bromofluorobenzene (S)	%				100	106	80-129	5		

MATRIX SPIKE SAMPLE: 3303351 Original: J1915320001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.67	84	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.78	98	70-130	
1,2-Dichloroethane-d4 (S)	%	85			80	77-125	
Toluene-d8 (S)	%	86			89	80-121	
Bromofluorobenzene (S)	%	102			106	80-129	

QC Batch: MSVj/4685 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/27/2019 19:02
Associated Lab Samples: J1915320001, J1915320002, J1915320003, J1915320004

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3304761

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3304761

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	90	70-128	
Toluene-d8 (S)	%	89	77-119	
Bromofluorobenzene (S)	%	102	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3304762 3304763

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	16	18	79	91		13		
Vinyl Chloride	ug/L	20	16	19	80	94	70-130	16	20	
Bromomethane	ug/L	20	10	8.5	50	43		16		
Chloroethane	ug/L	20	17	19	85	97		14		
Trichlorofluoromethane	ug/L	20	17	19	83	94		13		
Acetone	ug/L	20	21	23	107	115		8		
1,1-Dichloroethylene	ug/L	20	17	19	87	94	70-130	8	20	
Iodomethane (Methyl Iodide)	ug/L	20	9.5	14	48	70		38		
Acrylonitrile	ug/L	20	22	22	112	111		1		
Methylene Chloride	ug/L	20	21	24	105	118		11		
Carbon Disulfide	ug/L	20	18	20	89	99		11		
trans-1,2-Dichloroethylene	ug/L	20	17	18	87	92		6		
1,1-Dichloroethane	ug/L	20	18	19	90	96		6		
Vinyl Acetate	ug/L	20	23	8.5	117	42		93		
2-Butanone (MEK)	ug/L	20	23	23	117	113		3		
cis-1,2-Dichloroethylene	ug/L	20	18	18	89	91	70-130	2	20	
Bromochloromethane	ug/L	20	19	19	95	97		1		
Chloroform	ug/L	20	17	18	87	92	70-130	5	20	
1,2-Dichloroethane	ug/L	20	19	20	97	100		3		
1,1,1-Trichloroethane	ug/L	20	17	17	87	86		2		
Carbon Tetrachloride	ug/L	20	17	18	85	91		7		
Benzene	ug/L	20	19	19	94	96	70-130	3	20	
Dibromomethane	ug/L	20	22	21	108	105		3		
1,2-Dichloropropane	ug/L	20	19	20	93	99		6		
Trichloroethene	ug/L	20	19	23	95	114	70-130	18	20	
Bromodichloromethane	ug/L	20	18	18	90	89		1		
cis-1,3-Dichloropropene	ug/L	20	19	19	95	94		1		
4-Methyl-2-pentanone (MIBK)	ug/L	20	23	25	113	124		9		
trans-1,3-Dichloropropylene	ug/L	20	20	19	101	95		6		
1,1,2-Trichloroethane	ug/L	20	22	22	111	112		1		
Toluene	ug/L	20	16	16	82	82	70-130	0	20	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3304762 3304763

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2-Hexanone	ug/L	20	26	22	129	108		18		
Dibromochloromethane	ug/L	20	18	17	88	86		3		
Tetrachloroethylene (PCE)	ug/L	20	16	17	80	84	70-130	5	20	
1,1,1,2-Tetrachloroethane	ug/L	20	16	17	80	83		4		
Chlorobenzene	ug/L	20	16	16	81	82	70-130	2	20	
Ethylbenzene	ug/L	20	16	17	81	83	70-130	3	20	
Bromoform	ug/L	20	20	19	100	93		7		
Styrene	ug/L	20	16	16	82	79		3		
1,1,2,2-Tetrachloroethane	ug/L	20	22	16	108	80		30		
1,2,3-Trichloropropane	ug/L	20	38	25	188	127		38		
1,4-Dichlorobenzene	ug/L	20	15	15	74	77		4		
1,2-Dichlorobenzene	ug/L	20	16	17	82	83	70-130	2	20	
Xylene (Total)	ug/L	60	49	50	81	83	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%				94	85	70-128	10		
Toluene-d8 (S)	%				90	87	77-119	4		
Bromofluorobenzene (S)	%				102	99	86-123	3		

MATRIX SPIKE SAMPLE: 3304764 Original: J1915320002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	16	79		
Vinyl Chloride	ug/L	0	20	15	76	70-130	
Bromomethane	ug/L	0	20	7.2	36		
Chloroethane	ug/L	0	20	16	82		
Trichlorofluoromethane	ug/L	0	20	15	77		
Acetone	ug/L	0	20	29	145		
1,1-Dichloroethylene	ug/L	0	20	16	81	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	28	139		
Acrylonitrile	ug/L	0	20	22	112		
Methylene Chloride	ug/L	0	20	16	81		
Carbon Disulfide	ug/L	0	20	17	85		
trans-1,2-Dichloroethylene	ug/L	0	20	17	84		
1,1-Dichloroethane	ug/L	0	20	18	88		
Vinyl Acetate	ug/L	0	20	29	145		
2-Butanone (MEK)	ug/L	0	20	23	116		
cis-1,2-Dichloroethylene	ug/L	0	20	16	83	70-130	
Bromochloromethane	ug/L	0	20	18	91		
Chloroform	ug/L	0	20	17	87	70-130	

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3304764 Original: J1915320002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	0	20	18	90		
1,1,1-Trichloroethane	ug/L	0	20	17	85		
Carbon Tetrachloride	ug/L	0	20	16	81		
Benzene	ug/L	0	20	18	89	70-130	
Dibromomethane	ug/L	0	20	19	97		
1,2-Dichloropropane	ug/L	0	20	18	91		
Trichloroethene	ug/L	0	20	18	89	70-130	
Bromodichloromethane	ug/L	0	20	17	87		
cis-1,3-Dichloropropene	ug/L	0	20	15	75		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	23	115		
trans-1,3-Dichloropropylene	ug/L	0	20	15	74		
1,1,2-Trichloroethane	ug/L	0	20	21	103		
Toluene	ug/L	0	20	15	77	70-130	
2-Hexanone	ug/L	0	20	21	105		
Dibromochloromethane	ug/L	0	20	16	78		
Tetrachloroethylene (PCE)	ug/L	0	20	15	73	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	15	77		
Chlorobenzene	ug/L	0	20	15	76	70-130	
Ethylbenzene	ug/L	0	20	15	77	70-130	
Bromoform	ug/L	0	20	17	84		
Styrene	ug/L	0	20	13	67		
1,1,2,2-Tetrachloroethane	ug/L	0	20	20	99		
1,2,3-Trichloropropane	ug/L	0	20	29	146		
1,4-Dichlorobenzene	ug/L	0	20	14	69		
1,2-Dichlorobenzene	ug/L	0	20	15	75	70-130	
Xylene (Total)	ug/L	0	60	46	77	70-130	
1,2-Dichloroethane-d4 (S)	%	91			88	70-128	
Toluene-d8 (S)	%	84			87	77-119	
Bromofluorobenzene (S)	%	103			98	86-123	

QC Batch: MSVj/4688 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 12/02/2019 07:45

Associated Lab Samples: J1915320005, J1915320006, J1915320007, J1915320008, J1915320009, J1915320010, J1915320011, J1915320012,

METHOD BLANK: 3305978

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3305978

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	92	70-128	
Toluene-d8 (S)	%	85	77-119	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3305978

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromofluorobenzene (S)	%	104	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3305979 3305980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	20	20	99	99		0		
Vinyl Chloride	ug/L	20	19	20	97	98	70-130	1	20	
Bromomethane	ug/L	20	14	24	71	119		51		
Chloroethane	ug/L	20	22	20	108	102		5		
Trichlorofluoromethane	ug/L	20	21	20	106	102		4		
Acetone	ug/L	20	24	24	122	123		0		
1,1-Dichloroethylene	ug/L	20	23	21	115	107	70-130	7	20	
Iodomethane (Methyl Iodide)	ug/L	20	14	6.6	71	33		73		
Acrylonitrile	ug/L	20	25	21	124	107		15		
Methylene Chloride	ug/L	20	25	25	127	124		2		
Carbon Disulfide	ug/L	20	23	21	114	103		10		
trans-1,2-Dichloroethylene	ug/L	20	23	21	114	105		9		
1,1-Dichloroethane	ug/L	20	23	21	115	107		7		
Vinyl Acetate	ug/L	20	34	20	171	98		54		
2-Butanone (MEK)	ug/L	20	23	22	116	111		4		
cis-1,2-Dichloroethylene	ug/L	20	23	21	116	107	70-130	8	20	
Bromochloromethane	ug/L	20	23	22	116	112		4		
Chloroform	ug/L	20	23	22	114	110	70-130	3	20	
1,2-Dichloroethane	ug/L	20	24	24	119	118		1		
1,1,1-Trichloroethane	ug/L	20	23	21	114	106		7		
Carbon Tetrachloride	ug/L	20	24	20	118	102		15		
Benzene	ug/L	20	23	22	117	110	70-130	6	20	
Dibromomethane	ug/L	20	25	23	124	115		7		
1,2-Dichloropropane	ug/L	20	23	22	116	110		5		
Trichloroethene	ug/L	20	23	21	113	107	70-130	5	20	
Bromodichloromethane	ug/L	20	24	22	118	109		8		
cis-1,3-Dichloropropene	ug/L	20	24	21	118	104		12		
4-Methyl-2-pentanone (MIBK)	ug/L	20	23	23	113	114		1		
trans-1,3-Dichloropropylene	ug/L	20	24	21	120	106		13		
1,1,2-Trichloroethane	ug/L	20	25	23	124	116		7		
Toluene	ug/L	20	20	18	98	88	70-130	11	20	
2-Hexanone	ug/L	20	24	22	119	112		7		
Dibromochloromethane	ug/L	20	20	17	99	87		13		
Tetrachloroethylene (PCE)	ug/L	20	19	17	96	83	70-130	15	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	17	100	85		17		

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3305979 3305980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chlorobenzene	ug/L	20	19	18	94	88	70-130	7	20	
Ethylbenzene	ug/L	20	20	18	99	88	70-130	12	20	
Bromoform	ug/L	20	22	19	111	93		18		
Styrene	ug/L	20	19	18	96	89		8		
1,1,2,2-Tetrachloroethane	ug/L	20	23	20	115	100		15		
1,2,3-Trichloropropane	ug/L	20	20	21	101	106		4		
1,4-Dichlorobenzene	ug/L	20	18	15	91	77		16		
1,2-Dichlorobenzene	ug/L	20	19	16	95	82	70-130	16	20	
Xylene (Total)	ug/L	60	59	53	99	88	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%				85	91	70-128	8		
Toluene-d8 (S)	%				83	83	77-119	0		
Bromofluorobenzene (S)	%				99	98	86-123	1		

MATRIX SPIKE SAMPLE: 3305981 Original: J1915320005

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	16	80		
Vinyl Chloride	ug/L	0	20	16	80	70-130	
Bromomethane	ug/L	0	20	17	85		
Chloroethane	ug/L	0	20	17	85		
Trichlorofluoromethane	ug/L	0	20	17	86		
Acetone	ug/L	0	20	26	128		
1,1-Dichloroethylene	ug/L	0	20	17	87	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	17	87		
Acrylonitrile	ug/L	0	20	24	118		
Methylene Chloride	ug/L	0	20	18	90		
Carbon Disulfide	ug/L	0	20	18	92		
trans-1,2-Dichloroethylene	ug/L	0	20	18	89		
1,1-Dichloroethane	ug/L	0	20	18	92		
Vinyl Acetate	ug/L	0	20	31	157		
2-Butanone (MEK)	ug/L	0	20	23	117		
cis-1,2-Dichloroethylene	ug/L	0	20	18	91	70-130	
Bromochloromethane	ug/L	0	20	19	95		
Chloroform	ug/L	0	20	18	91	70-130	
1,2-Dichloroethane	ug/L	0	20	19	93		
1,1,1-Trichloroethane	ug/L	0	20	18	91		
Carbon Tetrachloride	ug/L	0	20	17	85		
Benzene	ug/L	0	20	20	99	70-130	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3305981 Original: J1915320005

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	0	20	20	102		
1,2-Dichloropropane	ug/L	0	20	19	93		
Trichloroethene	ug/L	0	20	18	91	70-130	
Bromodichloromethane	ug/L	0	20	18	90		
cis-1,3-Dichloropropene	ug/L	0	20	18	90		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	24	118		
trans-1,3-Dichloropropylene	ug/L	0	20	18	89		
1,1,2-Trichloroethane	ug/L	0	20	22	108		
Toluene	ug/L	0	20	16	79	70-130	
2-Hexanone	ug/L	0	20	19	97		
Dibromochloromethane	ug/L	0	20	16	80		
Tetrachloroethylene (PCE)	ug/L	0	20	15	77	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	16	78		
Chlorobenzene	ug/L	0	20	16	78	70-130	
Ethylbenzene	ug/L	0	20	16	79	70-130	
Bromoform	ug/L	0	20	17	84		
Styrene	ug/L	0	20	16	78		
1,1,2,2-Tetrachloroethane	ug/L	0	20	18	92		
1,2,3-Trichloropropane	ug/L	0	20	18	92		
1,4-Dichlorobenzene	ug/L	0	20	15	74		
1,2-Dichlorobenzene	ug/L	0	20	16	78	70-130	
Xylene (Total)	ug/L	0	60	48	79	70-130	
1,2-Dichloroethane-d4 (S)	%	97			82	70-128	
Toluene-d8 (S)	%	84			87	77-119	
Bromofluorobenzene (S)	%	104			103	86-123	

QC Batch: MSVj/4690 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 12/02/2019 07:45

Associated Lab Samples: J1915320005, J1915320006, J1915320007, J1915320008, J1915320009, J1915320010, J1915320011, J1915320012,

METHOD BLANK: 3305986

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	88	77-125	
Toluene-d8 (S)	%	85	80-121	
Bromofluorobenzene (S)	%	103	80-129	

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QUALITY CONTROL DATA

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3305987 3305988

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.75	0.69	94	86	70-130	8	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.89	0.75	111	94	70-130	17	30	
1,2-Dichloroethane-d4 (S)	%				87	89	77-125	2		
Toluene-d8 (S)	%				84	83	80-121	1		
Bromofluorobenzene (S)	%				103	101	80-129	3		

MATRIX SPIKE SAMPLE: 3305989 Original: J1915320006

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.61	76	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.78	98	70-130	
1,2-Dichloroethane-d4 (S)	%	88			89	77-125	
Toluene-d8 (S)	%	85			82	80-121	
Bromofluorobenzene (S)	%	106			100	80-129	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320001	19324-MW-1A			EPA 300.0	WCAj/6796
J1915320002	19324-MW-1B			EPA 300.0	WCAj/6796
J1915320003	19324-MW-2A			EPA 300.0	WCAj/6796
J1915320004	19324-MW-2B			EPA 300.0	WCAj/6796
J1915320005	19324-MW-3A			EPA 300.0	WCAj/6796
J1915320006	19324-MW-3B			EPA 300.0	WCAj/6796
J1915320007	19324-MW-4A			EPA 300.0	WCAj/6796
J1915320008	19324-MW-4B			EPA 300.0	WCAj/6796
J1915320009	19324-MW-5A			EPA 300.0	WCAj/6796
J1915320010	19324-MW-5B			EPA 300.0	WCAj/6796
J1915320011	19324-MW-9A			EPA 300.0	WCAj/6796
J1915320012	19324-MW-9B			EPA 300.0	WCAj/6796
J1915320013	19324-MW-11A			EPA 300.0	WCAj/6796
J1915320014	19324-MW-11B			EPA 300.0	WCAj/6796
J1915320015	19324-MW-12A			EPA 300.0	WCAj/6796
J1915320016	19324-MW-12B			EPA 300.0	WCAj/6796
J1915320017	19324-MW-13A			EPA 300.0	WCAj/6796
J1915320018	19324-MW-13B			EPA 300.0	WCAj/6796
J1915320019	19324-Dup-1			EPA 300.0	WCAj/6796
J1915320020	19324-EQ-1			EPA 300.0	WCAj/6796
J1915320001	19324-MW-1A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320002	19324-MW-1B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320003	19324-MW-2A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320004	19324-MW-2B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320005	19324-MW-3A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320006	19324-MW-3B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320007	19324-MW-4A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320008	19324-MW-4B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320009	19324-MW-5A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320010	19324-MW-5B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320011	19324-MW-9A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320012	19324-MW-9B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320013	19324-MW-11A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320014	19324-MW-11B	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320015	19324-MW-12A	SW-846 3010A	DGMj/4305	SW-846 6010	ICPj/2389
J1915320016	19324-MW-12B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915320017	19324-MW-13A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915320018	19324-MW-13B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915320019	19324-Dup-1	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915320020	19324-EQ-1	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915320020	19324-EQ-1			SM 2540 C	WCAj/6823
J1915320001	19324-MW-1A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320002	19324-MW-1B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320003	19324-MW-2A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320004	19324-MW-2B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320005	19324-MW-3A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320006	19324-MW-3B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320007	19324-MW-4A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320008	19324-MW-4B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320009	19324-MW-5A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320010	19324-MW-5B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320011	19324-MW-9A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320012	19324-MW-9B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320013	19324-MW-11A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320014	19324-MW-11B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320015	19324-MW-12A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320016	19324-MW-12B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320017	19324-MW-13A	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320018	19324-MW-13B	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320019	19324-Dup-1	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320020	19324-EQ-1	SW-846 3010A	DGMj/4315	SW-846 6020	ICMj/2186
J1915320001	19324-MW-1A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320002	19324-MW-1B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320003	19324-MW-2A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320004	19324-MW-2B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320005	19324-MW-3A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320006	19324-MW-3B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320007	19324-MW-4A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320008	19324-MW-4B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320009	19324-MW-5A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320010	19324-MW-5B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320011	19324-MW-9A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320012	19324-MW-9B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320013	19324-MW-11A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320014	19324-MW-11B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320015	19324-MW-12A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320016	19324-MW-12B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320017	19324-MW-13A	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320018	19324-MW-13B	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320019	19324-Dup-1	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320020	19324-EQ-1	SW-846 7470A	DGMj/4318	SW-846 7470A	CVAj/1732
J1915320001	19324-MW-1A			EPA 350.1	WCAg/8893
J1915320002	19324-MW-1B			EPA 350.1	WCAg/8893
J1915320003	19324-MW-2A			EPA 350.1	WCAg/8894
J1915320004	19324-MW-2B			EPA 350.1	WCAg/8894
J1915320005	19324-MW-3A			EPA 350.1	WCAg/8894
J1915320006	19324-MW-3B			EPA 350.1	WCAg/8894
J1915320007	19324-MW-4A			EPA 350.1	WCAg/8894
J1915320008	19324-MW-4B			EPA 350.1	WCAg/8894
J1915320009	19324-MW-5A			EPA 350.1	WCAg/8894
J1915320010	19324-MW-5B			EPA 350.1	WCAg/8894
J1915320011	19324-MW-9A			EPA 350.1	WCAg/8894
J1915320012	19324-MW-9B			EPA 350.1	WCAg/8894

Advanced Environmental Laboratories, Inc
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Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320013	19324-MW-11A			EPA 350.1	WCAg/8895
J1915320014	19324-MW-11B			EPA 350.1	WCAg/8895
J1915320015	19324-MW-12A			EPA 350.1	WCAg/8895
J1915320016	19324-MW-12B			EPA 350.1	WCAg/8895
J1915320017	19324-MW-13A			EPA 350.1	WCAg/8895
J1915320018	19324-MW-13B			EPA 350.1	WCAg/8895
J1915320019	19324-Dup-1			EPA 350.1	WCAg/8895
J1915320020	19324-EQ-1			EPA 350.1	WCAg/8895
J1915320001	19324-MW-1A			SM 2540 C	WCAj/6850
J1915320002	19324-MW-1B			SM 2540 C	WCAj/6850
J1915320003	19324-MW-2A			SM 2540 C	WCAj/6850
J1915320004	19324-MW-2B			SM 2540 C	WCAj/6850
J1915320005	19324-MW-3A			SM 2540 C	WCAj/6850
J1915320006	19324-MW-3B			SM 2540 C	WCAj/6850
J1915320007	19324-MW-4A			SM 2540 C	WCAj/6850
J1915320008	19324-MW-4B			SM 2540 C	WCAj/6850
J1915320009	19324-MW-5A			SM 2540 C	WCAj/6850
J1915320010	19324-MW-5B			SM 2540 C	WCAj/6850
J1915320011	19324-MW-9A			SM 2540 C	WCAj/6850
J1915320012	19324-MW-9B			SM 2540 C	WCAj/6850
J1915320013	19324-MW-11A			SM 2540 C	WCAj/6850
J1915320014	19324-MW-11B			SM 2540 C	WCAj/6850
J1915320015	19324-MW-12A			SM 2540 C	WCAj/6850
J1915320016	19324-MW-12B			SM 2540 C	WCAj/6850
J1915320017	19324-MW-13A			SM 2540 C	WCAj/6850
J1915320018	19324-MW-13B			SM 2540 C	WCAj/6851
J1915320019	19324-Dup-1			SM 2540 C	WCAj/6851
J1915320001	19324-MW-1A	SW-846 5030B	MSVj/4675	SW-846 8260B (SIM)	MSVj/4676
J1915320002	19324-MW-1B	SW-846 5030B	MSVj/4675	SW-846 8260B (SIM)	MSVj/4676
J1915320003	19324-MW-2A	SW-846 5030B	MSVj/4675	SW-846 8260B (SIM)	MSVj/4676
J1915320004	19324-MW-2B	SW-846 5030B	MSVj/4675	SW-846 8260B (SIM)	MSVj/4676

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320001	19324-MW-1A	SW-846 5030B	MSVj/4685	SW-846 8260B	MSVj/4686
J1915320002	19324-MW-1B	SW-846 5030B	MSVj/4685	SW-846 8260B	MSVj/4686
J1915320003	19324-MW-2A	SW-846 5030B	MSVj/4685	SW-846 8260B	MSVj/4686
J1915320004	19324-MW-2B	SW-846 5030B	MSVj/4685	SW-846 8260B	MSVj/4686
J1915320005	19324-MW-3A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320006	19324-MW-3B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320007	19324-MW-4A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320008	19324-MW-4B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320009	19324-MW-5A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320010	19324-MW-5B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320011	19324-MW-9A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320012	19324-MW-9B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320013	19324-MW-11A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320014	19324-MW-11B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320015	19324-MW-12A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320016	19324-MW-12B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320017	19324-MW-13A	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320018	19324-MW-13B	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320019	19324-Dup-1	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320020	19324-EQ-1	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320021	19324-Trip Blank-3	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320022	19324-Trip Blank-4	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320023	19324-Trip Blank-5	SW-846 5030B	MSVj/4688	SW-846 8260B	MSVj/4689
J1915320005	19324-MW-3A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320006	19324-MW-3B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320007	19324-MW-4A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320008	19324-MW-4B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320009	19324-MW-5A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320010	19324-MW-5B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320011	19324-MW-9A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320012	19324-MW-9B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915320 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915320013	19324-MW-11A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320014	19324-MW-11B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320015	19324-MW-12A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320016	19324-MW-12B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320017	19324-MW-13A	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320018	19324-MW-13B	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320019	19324-Dup-1	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320020	19324-EQ-1	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320021	19324-Trip Blank-3	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320022	19324-Trip Blank-4	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691
J1915320023	19324-Trip Blank-5	SW-846 5030B	MSVj/4690	SW-846 8260B (SIM)	MSVj/4691

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altan
☐ Fort Myers: 13100 Westlinks Terrace, Suite 10 • Fort Myers, FL
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.3
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 •
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

* J 1 9 1 5 3 2 0 *

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley & Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 1 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St. Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19324-MW-1	A	G	11/20/19	0858	GW	G		3	1	1	1							001
19324-MW-1	B	↓	↓	0838	↓	↓		↓	↓	↓	↓							002
19324-MW-2	A	↓	↓	1014	↓	↓		↓	↓	↓	↓							003
19324-MW-2	B	↓	↓	0944	↓	↓		↓	↓	↓	↓							004
19324-MW-3	A	↓	↓	1142	↓	↓		↓	↓	↓	↓							005
19324-MW-3	B	↓	↓	1114	↓	↓		↓	↓	↓	↓							006
19324-MW-4	A	↓	↓	1306	↓	↓		↓	↓	↓	↓							007
19324-MW-4	B	↓	↓	1241	↓	↓		↓	↓	↓	↓							008
19324-MW-5	A	↓	↓	1436	↓	↓		↓	↓	↓	↓							009
19324-MW-5	B	G	11/20/19	1414	GW	G		3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	11/20/19	1730	Fed Ex	11/20/19	1730
2	FEDEX	11.21.19	0845	[illegible]	11-21-19	0845
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamo
☐ Fort Myers: 13100 Westlinks Terrace, Suite 10 • Fort Myers, FL 33
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 9
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.22
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 6
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

* J 1 9 1 5 3 2 0 *

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Shipley + Daniel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 2 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St. Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19304-MW-9A		G	11/20/19	1410	GW	6		3	1	1	1							011
19304-MW-9B				1504														012
19304-MW-11A				1158														013
19304-MW-11B				1320														014
19304-MW-12A				1032														015
19304-MW-12B				1114														016
19304-MW-13A				0858														017
19304-MW-13B				0936														018
19304-Dup-1				0001	GW													019
19304-EQ-1		G	11/19/20	1540	W	6		3	1	1	1							020

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/20/19	1730	FedEx	11/20/19	1730
2	FEDEX	11.21.19	0845	[signature]	11.21.19	0845
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

J1915320

Advanced Environmental Laboratories, Inc.

- ☐ **Altamonte Springs:** 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1
- ☐ **Fort Myers:** 13100 Westlinks Terrace, Suite 10 • Fort Myers, FL 33913 • 239.674.8130
- ☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
- ☒ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
- ☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
- ☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
- ☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley + Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 3 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way St. Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3	LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic	
PRESERVATION							HCL	HNO3	Ice	H2SO4	
19334-Trip Blank-3	(Incooler with (1A, 1B, 2A, 2B, 3A, 3B, 4A + 4B)	–	–	–	W	3	3				021
19334-Trip Blank-4	(Incooler with 9A, 9B, 11A, 11B, 12A, 12B, 13A, 13B)	–	–	–	W	3	3				022
19334-Trip Blank-5	(Incooler with: 5A, 5B, Dup-1, EQ)	–	–	–	W	3	3				023

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/20/19	1730	FedEx	11/20/19	1730
2	FEDEX	11.21.19	0845	[signature]	11.21.19	0845
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site-Address: _____

Advanced Environmental Labs Inc

Client: WASTE CONNECTIONS, INC. Project name: J.E.D LANDFILL (F/K/A OAK...

Date/Time Rcvd: 11.21.19 /0845 Log-In request number: J1915320

Received by: KE Completed by: KE

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			X
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			X
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			X
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

SAMPLE : 19324-MW-13A - VIALS AND NUTRIENTS LABELED AS: 19324-MW-14A. DATE AND TIME MATCH COC

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Project No.: J1915320

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Copper in Continuing Calibration Verification (CCV) standards for analytical batch 2388, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1915320

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The Continuing Calibration Verification (CCV) standard was below the method acceptance of 80-120% for the following analytes: Bromomethane and Vinyl Acetate. Associated client samples were reanalyzed following a passing CCV to confirm initial results. No further corrective action necessary.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1915320

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: None.

Analysis: The analysis of J1915380019 and J1915380020 were initially performed past the recommended holding time. An internal laboratory failure occurred which resulted in the missed holding time. Efforts were made to analyze the sample as soon as the error was identified. The data is qualified to indicate the holding time violation.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recovery of Chloride for J1915320002 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The affected sample was qualified accordingly.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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December 13, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, November 22, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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SAMPLE SUMMARY

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1915380001	19325-MW-6A	Water	11/21/2019 13:50	11/22/2019 09:00
J1915380002	19325-MW-6B	Water	11/21/2019 13:24	11/22/2019 09:00
J1915380003	19325-MW-7A	Water	11/21/2019 13:48	11/22/2019 09:00
J1915380004	19325-MW-7B	Water	11/21/2019 14:20	11/22/2019 09:00
J1915380005	19325-MW-8A	Water	11/21/2019 12:30	11/22/2019 09:00
J1915380006	19325-MW-8B	Water	11/21/2019 13:04	11/22/2019 09:00
J1915380007	19325-MW-10A	Water	11/21/2019 10:54	11/22/2019 09:00
J1915380008	19325-MW-10B	Water	11/21/2019 11:26	11/22/2019 09:00
J1915380009	19325-MW-24A	Water	11/21/2019 11:12	11/22/2019 09:00
J1915380010	19325-MW-24B	Water	11/21/2019 10:50	11/22/2019 09:00
J1915380011	19325-MW-25A	Water	11/21/2019 12:22	11/22/2019 09:00
J1915380012	19325-MW-25B	Water	11/21/2019 12:00	11/22/2019 09:00
J1915380013	19325-MW-31A	Water	11/21/2019 09:26	11/22/2019 09:00
J1915380014	19325-MW-31B	Water	11/21/2019 10:06	11/22/2019 09:00
J1915380015	19325-CW-2A	Water	11/21/2019 09:52	11/22/2019 09:00
J1915380016	19325-CW-3A	Water	11/21/2019 09:00	11/22/2019 09:00
J1915380017	19325-Dup-2	Water	11/21/2019 00:02	11/22/2019 09:00
J1915380018	19325-EQ-2	Water	11/21/2019 15:02	11/22/2019 09:00
J1915380019	19325-Trip Blank-6	Water	11/21/2019 00:00	11/22/2019 09:00
J1915380020	19325-Trip Blank-7	Water	11/21/2019 00:00	11/22/2019 09:00

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380001** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-6A** Date Collected: 11/21/19 13:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**4.6**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:23	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:23	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:23	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:23	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:23	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:11	J
Iron	**18000**		**ug/L**	**1**	400	100	11/26/2019 18:23	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:23	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:23	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:23	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:23	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:23	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/5/2019 23:49	J
Arsenic	**0.49**	**I**	**ug/L**	**1**	1.0	0.077	12/5/2019 23:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/5/2019 23:49	J
Vanadium	**3.0**		**ug/L**	**1**	2.0	0.71	12/5/2019 23:49	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.020**	**I,J4**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:09	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 14:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 14:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 14:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 14:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 14:04	J

CERTIFICATE OF ANALYSIS

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380001** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-6A** Date Collected: 11/21/19 13:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 14:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 14:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 14:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 14:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 14:04	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 14:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 14:04	J
Benzene	**4.1**		**ug/L**	**1**	1.0	0.16	12/3/2019 14:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 14:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 14:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 14:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 14:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 14:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 14:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 14:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 14:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 14:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 14:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 14:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 14:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 14:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 14:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 14:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 14:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 14:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 14:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 14:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 14:04	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	70-128		12/3/2019 14:04	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 14:04	

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380001** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-6A** Date Collected: 11/21/19 13:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		12/3/2019 14:04	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 14:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 14:04	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		12/3/2019 14:04	
Toluene-d8 (S)	**84**		**%**	**1**	80-121		12/3/2019 14:04	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/3/2019 14:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**59**		**mg/L**	**1**	5.0	0.50	11/23/2019 01:24	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/23/2019 01:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**6.7**		**mg/L**	**10**	0.10	0.080	12/3/2019 18:52	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**160**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380002** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-6B** Date Collected: 11/21/19 13:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**49**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:27	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:27	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:27	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:27	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:27	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380002** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-6B** Date Collected: 11/21/19 13:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:14	J
Iron	**1600**		**ug/L**	**1**	400	100	11/26/2019 18:27	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:27	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:27	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:27	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:27	J
Sodium	**12**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:27	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:27	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:16	J
Arsenic	**0.36**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:16	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:16	J
Vanadium	**1.8**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:16	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.018**	**I**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:19	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 14:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 14:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 14:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 14:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 14:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 14:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 14:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 14:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 14:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 14:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 14:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 14:40	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380002** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-6B** Date Collected: 11/21/19 13:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 14:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 14:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 14:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 14:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 14:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 14:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 14:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 14:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 14:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 14:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 14:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 14:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 14:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 14:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 14:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 14:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 14:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 14:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 14:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 14:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 14:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 14:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 14:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 14:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 14:40	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/3/2019 14:40	
Toluene-d8 (S)	**93**		**%**	**1**	77-119		12/3/2019 14:40	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		12/3/2019 14:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 14:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 14:40	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		12/3/2019 14:40	
Toluene-d8 (S)	**83**		**%**	**1**	80-121		12/3/2019 14:40	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/3/2019 14:40	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380002** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-6B** Date Collected: 11/21/19 13:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**25**		**mg/L**	**1**	5.0	0.50	11/23/2019 00:15	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/23/2019 00:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.18**		**mg/L**	**5**	0.050	0.040	12/3/2019 18:53	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**86**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380003** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-7A** Date Collected: 11/21/19 13:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**20**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:32	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:32	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:32	J
Cobalt	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:32	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:18	J
Iron	**21000**		**ug/L**	**1**	400	100	11/26/2019 18:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:32	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:32	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380003** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-7A** Date Collected: 11/21/19 13:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:20	J
Arsenic	**0.80**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:20	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:20	J
Vanadium	**1.1**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:20	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:22	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 15:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 15:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 15:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 15:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:10	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 15:10	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:10	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 15:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 15:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 15:10	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 15:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 15:10	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 15:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 15:10	J
Benzene	**0.45**	**I**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 15:10	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 15:10	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 15:10	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 15:10	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 15:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 15:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 15:10	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380003** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-7A** Date Collected: 11/21/19 13:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 15:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 15:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 15:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 15:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 15:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 15:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 15:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 15:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 15:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 15:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:10	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 15:10	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		12/3/2019 15:10	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 15:10	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		12/3/2019 15:10	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 15:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 15:10	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/3/2019 15:10	
Toluene-d8 (S)	**83**		**%**	**1**	80-121		12/3/2019 15:10	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 15:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**56**		**mg/L**	**1**	5.0	0.50	11/23/2019 01:01	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/23/2019 01:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**25**	0.25	0.20	12/3/2019 18:54	G

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380003** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-7A** Date Collected: 11/21/19 13:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380004** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-7B** Date Collected: 11/21/19 14:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**33**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:37	J
Beryllium	**0.80**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:37	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:37	J
Cobalt	**4.1**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:21	J
Iron	**20000**		**ug/L**	**1**	400	100	11/26/2019 18:37	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:37	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:37	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:37	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:23	J
Arsenic	**0.81**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:23	J
Thallium	**0.067**	**I**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:23	J
Vanadium	**1.9**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:23	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380004** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-7B** Date Collected: 11/21/19 14:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:25	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 15:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 15:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 15:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 15:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 15:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 15:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 15:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 15:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 15:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 15:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 15:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 15:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 15:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 15:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 15:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 15:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 15:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 15:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 15:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 15:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 15:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 15:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 15:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 15:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 15:46	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380004** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-7B** Date Collected: 11/21/19 14:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 15:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 15:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 15:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 15:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 15:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 15:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 15:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 15:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 15:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 15:46	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/3/2019 15:46	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 15:46	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 15:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 15:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 15:46	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		12/3/2019 15:46	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		12/3/2019 15:46	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 15:46	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**31**		**mg/L**	**1**	5.0	0.50	11/23/2019 01:47	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/23/2019 01:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.6**		**mg/L**	**5**	0.050	0.040	12/3/2019 18:55	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**400**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380005** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-8A** Date Collected: 11/21/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**31**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:50	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:50	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:50	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:50	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:50	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:25	J
Iron	**1800**		**ug/L**	**1**	400	100	11/26/2019 18:50	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:50	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:50	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:50	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:50	J
Sodium	**4.5**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:50	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:50	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.12**	**I**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:39	J
Arsenic	**0.68**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:39	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:39	J
Vanadium	**4.6**		**ug/L**	**1**	2.0	0.71	12/6/2019 00:39	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:29	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 16:16	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 16:16	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:16	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 16:16	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 16:16	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:16	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 16:16	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380005** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-8A** Date Collected: 11/21/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:16	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:16	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 16:16	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 16:16	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 16:16	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 16:16	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 16:16	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 16:16	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 16:16	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:16	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 16:16	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 16:16	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 16:16	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 16:16	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 16:16	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 16:16	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:16	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 16:16	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:16	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:16	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 16:16	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 16:16	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 16:16	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:16	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 16:16	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:16	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 16:16	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:16	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 16:16	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 16:16	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 16:16	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:16	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 16:16	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 16:16	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:16	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:16	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:16	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 16:16	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	70-128		12/3/2019 16:16	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 16:16	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380005** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-8A** Date Collected: 11/21/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/3/2019 16:16	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 16:16	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 16:16	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		12/3/2019 16:16	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 16:16	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 16:16	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.0**	**I**	**mg/L**	**2**	10	1.0	11/22/2019 23:29	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 23:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.91**		**mg/L**	**5**	0.050	0.040	12/3/2019 16:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380006** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-8B** Date Collected: 11/21/19 13:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**38**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:55	J
Beryllium	**0.80**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:55	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:55	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:55	J
Cobalt	**8.9**		**ug/L**	**1**	8.0	2.0	11/26/2019 18:55	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380006** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-8B** Date Collected: 11/21/19 13:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 12:28	J
Iron	**46000**		**ug/L**	**1**	400	100	11/26/2019 18:55	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:55	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:55	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:55	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:55	J
Sodium	**30**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:55	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:55	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:17	J
Arsenic	**0.70**	**I**	**ug/L**	**5**	5.0	0.39	12/6/2019 01:41	J
Thallium	**0.092**	**I**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:17	J
Vanadium	**3.8**	**I**	**ug/L**	**5**	10	3.6	12/6/2019 01:41	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:32	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 16:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 16:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 16:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 16:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 16:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 16:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 16:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 16:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 16:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 16:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 16:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 16:53	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380006** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-8B** Date Collected: 11/21/19 13:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 16:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 16:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 16:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 16:53	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 16:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 16:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 16:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 16:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 16:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 16:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 16:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 16:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 16:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 16:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 16:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 16:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 16:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 16:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 16:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 16:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 16:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 16:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 16:53	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		12/3/2019 16:53	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 16:53	
Bromofluorobenzene (S)	**100**		**%**	**1**	86-123		12/3/2019 16:53	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 16:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 16:53	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		12/3/2019 16:53	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 16:53	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		12/3/2019 16:53	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380006** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-8B** Date Collected: 11/21/19 13:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**		**mg/L**	**1**	5.0	0.50	11/22/2019 20:47	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 20:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.4**		**mg/L**	**5**	0.050	0.040	12/3/2019 16:02	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1000**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380007** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-10A** Date Collected: 11/21/19 10:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**90**		**ug/L**	**1**	4.0	1.0	11/26/2019 18:59	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 18:59	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 18:59	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:59	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 18:59	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 13:52	J
Iron	**16000**		**ug/L**	**1**	400	100	11/26/2019 18:59	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 18:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 18:59	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 18:59	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 18:59	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	11/26/2019 18:59	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 18:59	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380007** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-10A** Date Collected: 11/21/19 10:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:43	J
Arsenic	**1.5**		**ug/L**	**1**	1.0	0.077	12/6/2019 00:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:43	J
Vanadium	**1.8**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:35	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 17:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 17:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 17:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 17:22	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:22	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 17:22	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:22	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 17:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 17:22	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 17:22	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 17:22	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 17:22	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 17:22	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 17:22	J
Benzene	**6.3**		**ug/L**	**1**	1.0	0.16	12/3/2019 17:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 17:22	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 17:22	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 17:22	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 17:22	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 17:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 17:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 17:22	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380007** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-10A** Date Collected: 11/21/19 10:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 17:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 17:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 17:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 17:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 17:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 17:22	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 17:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 17:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 17:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 17:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 17:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 17:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:22	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 17:22	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		12/3/2019 17:22	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 17:22	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 17:22	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 17:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 17:22	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		12/3/2019 17:22	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 17:22	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 17:22	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**		**mg/L**	**1**	5.0	0.50	11/22/2019 20:47	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 20:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**23**	**J4**	**mg/L**	**50**	0.50	0.40	12/3/2019 18:57	G

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380007** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-10A** Date Collected: 11/21/19 10:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**590**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380008** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-10B** Date Collected: 11/21/19 11:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**44**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:04	J
Beryllium	**1.3**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 19:04	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:04	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:04	J
Cobalt	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:04	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 13:55	J
Iron	**11000**		**ug/L**	**1**	400	100	11/26/2019 19:04	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 19:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:04	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:04	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:04	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:47	J
Arsenic	**0.94**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:47	J
Vanadium	**2.3**		**ug/L**	**1**	2.0	0.71	12/6/2019 00:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380008** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-10B** Date Collected: 11/21/19 11:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:45	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 17:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 17:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 17:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 17:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 17:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 17:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 17:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 17:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 17:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 17:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 17:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 17:59	J
Benzene	**13**		**ug/L**	**1**	1.0	0.16	12/3/2019 17:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 17:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 17:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 17:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 17:59	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 17:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 17:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 17:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 17:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 17:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 17:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 17:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 17:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 17:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 17:59	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380008** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-10B** Date Collected: 11/21/19 11:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 17:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 17:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 17:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 17:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:59	J
Xylene (Total)	**1.5**	**I**	**ug/L**	**1**	2.0	0.53	12/3/2019 17:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 17:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 17:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 17:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 17:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 17:59	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		12/3/2019 17:59	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 17:59	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 17:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 17:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 17:59	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/3/2019 17:59	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 17:59	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 17:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.6**	**I**	**mg/L**	**2**	10	1.0	11/22/2019 23:06	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 23:06	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.5**		**mg/L**	**10**	0.10	0.080	12/3/2019 19:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**850**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380009** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-24A** Date Collected: 11/21/19 11:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**21**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:08	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 19:08	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:08	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:08	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:08	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 13:59	J
Iron	**810**		**ug/L**	**1**	400	100	11/26/2019 19:08	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:08	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 19:08	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:08	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:08	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:08	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:08	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:51	J
Arsenic	**0.23**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:51	J
Vanadium	**1.2**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.014**	**I**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:48	J
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**23**		**mg/L**	**1**	5.0	0.50	11/22/2019 21:10	J
Nitrate (as N)	**0.052**	**I**	**mg/L**	**1**	0.50	0.050	11/22/2019 21:10	J
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 18:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 18:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 18:29	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380009** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-24A** Date Collected: 11/21/19 11:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 18:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 18:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 18:29	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 18:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 18:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 18:29	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 18:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 18:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 18:29	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 18:29	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 18:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 18:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 18:29	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 18:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 18:29	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 18:29	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 18:29	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 18:29	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 18:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 18:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 18:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 18:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 18:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 18:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 18:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 18:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 18:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 18:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 18:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 18:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 18:29	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 18:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 18:29	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 18:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 18:29	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 18:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 18:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 18:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 18:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 18:29	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380009** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-24A** Date Collected: 11/21/19 11:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 18:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 18:29	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		12/3/2019 18:29	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 18:29	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/3/2019 18:29	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 18:29	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 18:29	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		12/3/2019 18:29	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		12/3/2019 18:29	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		12/3/2019 18:29	
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	12/3/2019 19:01	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**94**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380010** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-24B** Date Collected: 11/21/19 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**6.3**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:13	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 19:13	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:13	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:13	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:13	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380010** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-24B** Date Collected: 11/21/19 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:02	J
Iron	**490**		**ug/L**	**1**	400	100	11/26/2019 19:13	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 19:13	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:13	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:13	J
Sodium	**5.3**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:13	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:13	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:54	J
Arsenic	**0.081**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 00:54	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:54	J
Vanadium	**0.71**	**U**	**ug/L**	**1**	2.0	0.71	12/6/2019 00:54	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:51	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 19:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 19:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 19:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 19:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 19:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 19:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 19:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 19:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 19:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 19:05	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 19:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 19:05	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380010** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-24B** Date Collected: 11/21/19 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 19:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 19:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 19:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 19:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 19:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 19:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 19:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 19:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 19:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 19:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 19:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 19:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 19:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 19:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 19:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 19:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 19:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 19:05	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		12/3/2019 19:05	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 19:05	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 19:05	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 19:05	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 19:05	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		12/3/2019 19:05	
Toluene-d8 (S)	**83**		**%**	**1**	80-121		12/3/2019 19:05	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 19:05	

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380010** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-24B** Date Collected: 11/21/19 10:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**8.9**	**J4**	**mg/L**	**1**	5.0	0.50	11/22/2019 20:01	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	11/22/2019 20:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	12/3/2019 16:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**38**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380011** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-25A** Date Collected: 11/21/19 12:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**74**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:17	J
Beryllium	**1.1**	**I**	**ug/L**	**1**	2.0	0.50	11/26/2019 19:17	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:17	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:17	J
Cobalt	**2.5**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:17	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:06	J
Iron	**18000**		**ug/L**	**1**	400	100	11/26/2019 19:17	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 19:17	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:17	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:17	J
Sodium	**64**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:17	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:17	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380011** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-25A** Date Collected: 11/21/19 12:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 00:58	J
Arsenic	**1.0**		**ug/L**	**1**	1.0	0.077	12/6/2019 00:58	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 00:58	J
Vanadium	**4.7**		**ug/L**	**1**	2.0	0.71	12/6/2019 00:58	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:55	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 19:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 19:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 19:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 19:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 19:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 19:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 19:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 19:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 19:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 19:35	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 19:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 19:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 19:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 19:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 19:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 19:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 19:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 19:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 19:35	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380011** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-25A** Date Collected: 11/21/19 12:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 19:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 19:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 19:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 19:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 19:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 19:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 19:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 19:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 19:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 19:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 19:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 19:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 19:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 19:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 19:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 19:35	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/3/2019 19:35	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		12/3/2019 19:35	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/3/2019 19:35	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 19:35	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 19:35	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		12/3/2019 19:35	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 19:35	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 19:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**110**		**mg/L**	**2**	10	1.0	11/22/2019 23:06	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 23:06	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.9**		**mg/L**	**25**	0.25	0.20	12/3/2019 19:02	G

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380011** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-25A** Date Collected: 11/21/19 12:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**610**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380012** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-25B** Date Collected: 11/21/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**38**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 19:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:09	J
Iron	**1300**		**ug/L**	**1**	400	100	11/26/2019 19:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 19:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:22	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 01:02	J
Arsenic	**0.75**	**I**	**ug/L**	**1**	1.0	0.077	12/6/2019 01:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 01:02	J
Vanadium	**1.6**	**I**	**ug/L**	**1**	2.0	0.71	12/6/2019 01:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380012** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-25B** Date Collected: 11/21/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 16:58	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 20:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 20:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 20:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 20:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:11	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 20:11	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:11	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 20:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 20:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 20:11	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 20:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 20:11	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 20:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 20:11	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 20:11	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 20:11	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 20:11	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 20:11	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 20:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 20:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 20:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 20:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 20:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 20:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 20:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 20:11	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380012** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-25B** Date Collected: 11/21/19 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 20:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 20:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 20:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 20:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 20:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:11	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 20:11	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		12/3/2019 20:11	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 20:11	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		12/3/2019 20:11	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 20:11	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 20:11	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		12/3/2019 20:11	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 20:11	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/3/2019 20:11	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**26**		**mg/L**	**1**	5.0	0.50	11/22/2019 21:56	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 21:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**5**	0.050	0.040	12/3/2019 19:04	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380013** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-31A** Date Collected: 11/21/19 09:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**66**		**ug/L**	**1**	4.0	1.0	11/26/2019 19:26	J
Beryllium	**4.8**		**ug/L**	**1**	2.0	0.50	11/26/2019 19:26	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 19:26	J
Chromium	**3.8**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 19:26	J
Cobalt	**23**		**ug/L**	**1**	8.0	2.0	11/26/2019 19:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 14:13	J
Iron	**80000**		**ug/L**	**1**	400	100	11/26/2019 19:26	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 19:26	J
Nickel	**16**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 19:26	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 19:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 19:26	J
Sodium	**21**		**mg/L**	**1**	1.4	0.35	11/26/2019 19:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 19:26	J
Analysis Desc: SW846 6010B Analysis,Dissolved	Preparation Method: SW-846 3005A Analytical Method: SW-846 6010,Dissolved							
Barium	**66**		**ug/L**	**1**	4.0	1.0	11/25/2019 14:23	J
Beryllium	**3.7**		**ug/L**	**1**	2.0	0.50	11/25/2019 14:23	J
Cadmium	**1.7**	**I**	**ug/L**	**1**	4.0	1.0	11/25/2019 14:23	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/25/2019 14:23	J
Cobalt	**23**		**ug/L**	**1**	8.0	2.0	11/25/2019 14:23	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	11/25/2019 14:23	J
Iron	**80000**		**ug/L**	**2**	800	200	11/26/2019 14:08	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 14:04	J
Nickel	**16**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 14:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/25/2019 14:23	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/25/2019 14:23	J
Sodium	**22**		**mg/L**	**1**	1.4	0.35	11/26/2019 14:04	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/25/2019 14:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.13**	**I**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:21	J
Arsenic	**3.6**	**I**	**ug/L**	**5**	5.0	0.39	12/10/2019 11:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:21	J
Vanadium	**11**		**ug/L**	**5**	10	3.6	12/10/2019 11:47	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380013** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-31A** Date Collected: 11/21/19 09:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:01	J
METALS, DISSOLVED								
Analysis Desc: SW846 6020B Analysis,Dissolved	Preparation Method: SW-846 3005A Analytical Method: SW-846 6020							
Antimony	**0.17**	**I**	**ug/L**	**1**	0.70	0.11	12/5/2019 01:59	J
Arsenic	**1.1**		**ug/L**	**1**	1.0	0.077	12/5/2019 01:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/5/2019 01:59	J
Vanadium	**11**	**I**	**ug/L**	**10**	20	7.1	12/5/2019 14:08	J
Analysis Desc: SW846 7470A Analysis,Dissolved	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:33	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 20:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 20:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 20:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 20:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 20:41	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 20:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 20:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 20:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 20:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 20:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 20:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 20:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 20:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 20:41	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380013** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-31A** Date Collected: 11/21/19 09:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 20:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 20:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 20:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 20:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 20:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 20:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 20:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 20:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 20:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 20:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 20:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 20:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 20:41	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 20:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 20:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 20:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 20:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 20:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 20:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 20:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 20:41	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/3/2019 20:41	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 20:41	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/3/2019 20:41	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 20:41	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 20:41	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		12/3/2019 20:41	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 20:41	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/3/2019 20:41	

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380013** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-31A** Date Collected: 11/21/19 09:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**24**		**mg/L**	**2**	10	1.0	11/22/2019 18:52	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2019 18:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.8**		**mg/L**	**25**	0.25	0.20	12/3/2019 19:13	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**870**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380014** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-31B** Date Collected: 11/21/19 10:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**86**		**ug/L**	**1**	4.0	1.0	11/26/2019 16:33	J
Beryllium	**2.0**		**ug/L**	**1**	2.0	0.50	11/26/2019 16:33	J
Cadmium	**1.0**	**U,J4**	**ug/L**	**1**	4.0	1.0	11/26/2019 16:33	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 16:33	J
Cobalt	**28**		**ug/L**	**1**	8.0	2.0	11/26/2019 16:33	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:20	J
Iron	**70000**		**ug/L**	**1**	400	100	11/26/2019 16:33	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 16:33	J
Nickel	**20**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 16:33	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 16:33	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 16:33	J
Sodium	**31**		**mg/L**	**1**	1.4	0.35	11/26/2019 16:33	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 16:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380014** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-31B** Date Collected: 11/21/19 10:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:25	J
Arsenic	**1.3**	**I**	**ug/L**	**5**	5.0	0.39	12/6/2019 01:45	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:25	J
Vanadium	**4.0**	**I**	**ug/L**	**5**	10	3.6	12/6/2019 01:45	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:04	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 21:17	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 21:17	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:17	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 21:17	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 21:17	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:17	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 21:17	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:17	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:17	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 21:17	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 21:17	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 21:17	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 21:17	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 21:17	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 21:17	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 21:17	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:17	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 21:17	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 21:17	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 21:17	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 21:17	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 21:17	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 21:17	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:17	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 21:17	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:17	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:17	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380014** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-MW-31B** Date Collected: 11/21/19 10:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 21:17	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 21:17	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 21:17	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:17	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 21:17	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:17	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 21:17	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:17	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 21:17	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 21:17	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 21:17	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:17	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 21:17	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 21:17	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:17	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:17	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:17	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 21:17	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		12/3/2019 21:17	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 21:17	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		12/3/2019 21:17	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 21:17	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 21:17	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	77-125		12/3/2019 21:17	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 21:17	
Bromofluorobenzene (S)	**107**		**%**	**1**	80-129		12/3/2019 21:17	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**21**	**I**	**mg/L**	**5**	25	2.5	11/22/2019 10:22	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/22/2019 10:22	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.4**		**mg/L**	**5**	0.050	0.040	12/3/2019 19:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380014** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-MW-31B** Date Collected: 11/21/19 10:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380015** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-CW-2A** Date Collected: 11/21/19 09:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**76**		**ug/L**	**1**	4.0	1.0	11/26/2019 17:05	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 17:05	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:05	J
Chromium	**3.8**	**I**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:05	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:05	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:23	J
Iron	**330**	**I**	**ug/L**	**1**	400	100	11/26/2019 17:05	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 17:05	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 17:05	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 17:05	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 17:05	J
Sodium	**230**		**mg/L**	**1**	1.4	0.35	11/26/2019 17:05	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 17:05	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.17**	**I**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:29	J
Arsenic	**3.3**	**I**	**ug/L**	**5**	5.0	0.39	12/6/2019 01:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:29	J
Vanadium	**18**		**ug/L**	**5**	10	3.6	12/6/2019 01:49	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:07	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380015** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-CW-2A** Date Collected: 11/21/19 09:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 21:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 21:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 21:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 21:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 21:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 21:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 21:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 21:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 21:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 21:47	J
Acetone	**8.2**		**ug/L**	**1**	5.0	2.1	12/3/2019 21:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 21:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 21:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 21:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 21:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 21:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 21:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 21:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 21:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 21:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 21:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 21:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 21:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 21:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 21:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 21:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 21:47	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380015** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-CW-2A** Date Collected: 11/21/19 09:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 21:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 21:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 21:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 21:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 21:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 21:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 21:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 21:47	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		12/3/2019 21:47	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		12/3/2019 21:47	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		12/3/2019 21:47	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 21:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 21:47	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		12/3/2019 21:47	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 21:47	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		12/3/2019 21:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**330**		**mg/L**	**10**	50	5.0	11/22/2019 19:15	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/22/2019 19:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**23**		**mg/L**	**50**	0.50	0.40	12/3/2019 19:15	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380016** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-CW-3A** Date Collected: 11/21/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**50**		**ug/L**	**1**	4.0	1.0	11/26/2019 17:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 17:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:09	J
Chromium	**17**		**ug/L**	**1**	8.0	2.0	11/26/2019 17:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:27	J
Iron	**2300**		**ug/L**	**1**	400	100	11/26/2019 17:09	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 17:09	J
Nickel	**10**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 17:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 17:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 17:09	J
Sodium	**400**		**mg/L**	**1**	1.4	0.35	11/26/2019 17:09	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 17:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.35**	**I**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:33	J
Arsenic	**13**		**ug/L**	**5**	5.0	0.39	12/6/2019 01:53	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:33	J
Vanadium	**31**		**ug/L**	**5**	10	3.6	12/6/2019 01:53	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:11	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/4/2019 01:43	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 01:43	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 01:43	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/4/2019 01:43	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/4/2019 01:43	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 01:43	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/4/2019 01:43	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380016** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-CW-3A** Date Collected: 11/21/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 01:43	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 01:43	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/4/2019 01:43	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 01:43	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/4/2019 01:43	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/4/2019 01:43	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/4/2019 01:43	J
Acetone	**12**		**ug/L**	**1**	5.0	2.1	12/4/2019 01:43	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/4/2019 01:43	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 01:43	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/4/2019 01:43	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/4/2019 01:43	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/4/2019 01:43	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 01:43	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/4/2019 01:43	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 01:43	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 01:43	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 01:43	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 01:43	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 01:43	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 01:43	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/4/2019 01:43	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 01:43	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 01:43	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/4/2019 01:43	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 01:43	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 01:43	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 01:43	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 01:43	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/4/2019 01:43	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/4/2019 01:43	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 01:43	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/4/2019 01:43	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 01:43	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 01:43	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 01:43	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 01:43	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/4/2019 01:43	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		12/4/2019 01:43	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/4/2019 01:43	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380016** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-CW-3A** Date Collected: 11/21/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/4/2019 01:43	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/4/2019 01:43	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/4/2019 01:43	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		12/4/2019 01:43	
Toluene-d8 (S)	**80**		**%**	**1**	80-121		12/4/2019 01:43	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/4/2019 01:43	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**550**		**mg/L**	**10**	50	5.0	11/22/2019 18:29	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/22/2019 18:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**21**		**mg/L**	**50**	0.50	0.40	12/3/2019 19:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380017** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-Dup-2** Date Collected: 11/21/19 00:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**50**		**ug/L**	**1**	4.0	1.0	11/26/2019 17:14	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 17:14	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:14	J
Chromium	**17**		**ug/L**	**1**	8.0	2.0	11/26/2019 17:14	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:14	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380017** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-Dup-2** Date Collected: 11/21/19 00:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:30	J
Iron	**2300**		**ug/L**	**1**	400	100	11/26/2019 17:14	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 17:14	J
Nickel	**9.5**	**I**	**ug/L**	**1**	24	6.0	11/26/2019 17:14	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 17:14	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 17:14	J
Sodium	**390**		**mg/L**	**1**	1.4	0.35	11/26/2019 17:14	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 17:14	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.34**	**I**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:37	J
Arsenic	**13**		**ug/L**	**5**	5.0	0.39	12/6/2019 02:09	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:37	J
Vanadium	**32**		**ug/L**	**5**	10	3.6	12/6/2019 02:09	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:14	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/4/2019 02:12	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 02:12	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:12	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/4/2019 02:12	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/4/2019 02:12	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:12	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/4/2019 02:12	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:12	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:12	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/4/2019 02:12	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 02:12	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/4/2019 02:12	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/4/2019 02:12	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/4/2019 02:12	J
Acetone	**11**		**ug/L**	**1**	5.0	2.1	12/4/2019 02:12	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/4/2019 02:12	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380017** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-Dup-2** Date Collected: 11/21/19 00:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:12	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/4/2019 02:12	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/4/2019 02:12	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/4/2019 02:12	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 02:12	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/4/2019 02:12	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 02:12	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:12	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 02:12	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:12	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:12	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 02:12	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/4/2019 02:12	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 02:12	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:12	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/4/2019 02:12	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:12	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 02:12	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:12	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 02:12	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/4/2019 02:12	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/4/2019 02:12	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:12	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/4/2019 02:12	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 02:12	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:12	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:12	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:12	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/4/2019 02:12	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		12/4/2019 02:12	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		12/4/2019 02:12	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		12/4/2019 02:12	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/4/2019 02:12	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/4/2019 02:12	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		12/4/2019 02:12	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		12/4/2019 02:12	
Bromofluorobenzene (S)	**102**		**%**	**1**	80-129		12/4/2019 02:12	

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380017** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-Dup-2** Date Collected: 11/21/19 00:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**490**		**mg/L**	**10**	50	5.0	11/22/2019 18:07	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/22/2019 18:07	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**20**	**J4**	**mg/L**	**50**	0.50	0.40	12/3/2019 19:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380018** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-EQ-2** Date Collected: 11/21/19 15:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:19	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	11/26/2019 17:19	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	11/26/2019 17:19	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:19	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	11/26/2019 17:19	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	12/3/2019 11:34	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	11/26/2019 17:19	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	11/26/2019 17:19	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	11/26/2019 17:19	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	11/26/2019 17:19	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	11/26/2019 17:19	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	11/26/2019 17:19	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	11/26/2019 17:19	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380018** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-EQ-2** Date Collected: 11/21/19 15:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	12/6/2019 02:41	J
Arsenic	**0.077**	**U**	**ug/L**	**1**	1.0	0.077	12/6/2019 02:41	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	12/6/2019 02:41	J
Vanadium	**0.71**	**U**	**ug/L**	**1**	2.0	0.71	12/6/2019 02:41	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	12/4/2019 17:24	J
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/4/2019 02:42	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 02:42	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:42	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/4/2019 02:42	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/4/2019 02:42	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:42	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/4/2019 02:42	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:42	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:42	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/4/2019 02:42	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/4/2019 02:42	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/4/2019 02:42	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/4/2019 02:42	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/4/2019 02:42	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/4/2019 02:42	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/4/2019 02:42	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:42	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/4/2019 02:42	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/4/2019 02:42	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/4/2019 02:42	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 02:42	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/4/2019 02:42	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 02:42	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:42	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 02:42	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380018** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-EQ-2** Date Collected: 11/21/19 15:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/4/2019 02:42	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:42	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/4/2019 02:42	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/4/2019 02:42	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 02:42	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:42	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/4/2019 02:42	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:42	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/4/2019 02:42	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/4/2019 02:42	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/4/2019 02:42	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/4/2019 02:42	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/4/2019 02:42	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:42	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/4/2019 02:42	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/4/2019 02:42	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/4/2019 02:42	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/4/2019 02:42	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/4/2019 02:42	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/4/2019 02:42	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		12/4/2019 02:42	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		12/4/2019 02:42	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		12/4/2019 02:42	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/4/2019 02:42	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/4/2019 02:42	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		12/4/2019 02:42	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/4/2019 02:42	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		12/4/2019 02:42	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	11/22/2019 16:57	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2019 16:57	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	12/3/2019 19:21	G

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380018** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-EQ-2** Date Collected: 11/21/19 15:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	11/27/2019 16:00	J

Lab ID: **J1915380019** Date Received: 11/22/19 09:00 Matrix: Water
Sample ID: **19325-Trip Blank-6** Date Collected: 11/21/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 12:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 12:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 12:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 12:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 12:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 12:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 12:58	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 12:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 12:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 12:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 12:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 12:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 12:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 12:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 12:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 12:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 12:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 12:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 12:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 12:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 12:58	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 12:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 12:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 12:58	J

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380019** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-Trip Blank-6** Date Collected: 11/21/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 12:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 12:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 12:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 12:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 12:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 12:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 12:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 12:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 12:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 12:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 12:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 12:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 12:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 12:58	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 12:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 12:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 12:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 12:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 12:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 12:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 12:58	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/3/2019 12:58	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 12:58	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		12/3/2019 12:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 12:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 12:58	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		12/3/2019 12:58	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/3/2019 12:58	
Bromofluorobenzene (S)	**103**		**%**	**1**	80-129		12/3/2019 12:58	

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380020** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-Trip Blank-7** Date Collected: 11/21/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/3/2019 13:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 13:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 13:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/3/2019 13:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/3/2019 13:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 13:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/3/2019 13:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 13:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 13:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/3/2019 13:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/3/2019 13:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/3/2019 13:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/3/2019 13:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/3/2019 13:34	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/3/2019 13:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/3/2019 13:34	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 13:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/3/2019 13:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/3/2019 13:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/3/2019 13:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 13:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/3/2019 13:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 13:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 13:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 13:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/3/2019 13:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 13:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/3/2019 13:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/3/2019 13:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 13:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 13:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/3/2019 13:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 13:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/3/2019 13:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/3/2019 13:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/3/2019 13:34	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1915380020** Date Received: 11/22/19 09:00 Matrix: Water

Sample ID: **19325-Trip Blank-7** Date Collected: 11/21/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/3/2019 13:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/3/2019 13:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 13:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/3/2019 13:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/3/2019 13:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/3/2019 13:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/3/2019 13:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/3/2019 13:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/3/2019 13:34	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		12/3/2019 13:34	
Toluene-d8 (S)	**84**		**%**	**1**	77-119		12/3/2019 13:34	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		12/3/2019 13:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/3/2019 13:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/3/2019 13:34	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		12/3/2019 13:34	
Toluene-d8 (S)	**83**		**%**	**1**	80-121		12/3/2019 13:34	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		12/3/2019 13:34	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/6811 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3299858

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3299859 3299860

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	19	19	97	96	90-110	1	10	
Nitrate (as N)	mg/L	2	1.9	1.9	96	95	90-110	1	10	

MATRIX SPIKE SAMPLE: 3299861 Original: J1915380002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	25	20	45	99	90-110	
Nitrate (as N)	mg/L	0	2	1.9	96	90-110	

QC Batch: DGMj/4302 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3005A Prepared: 12/04/2019 14:30
Associated Lab Samples: J1915380013

METHOD BLANK: 3300319

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Vanadium	ug/L	0.71	0.71	U
Arsenic	ug/L	0.077	0.077	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	50	47	94	80-120	
Arsenic	ug/L	50	47	94	80-120	
Antimony	ug/L	50	45	90	80-120	
Thallium	ug/L	50	46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300321 3300322 Original: J1915380013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Arsenic	ug/L	1.1	50	23	24	44	45	75-125	2	20	
Antimony	ug/L	0.17	50	46	47	92	94	75-125	2	20	
Thallium	ug/L	0.018	50	48	50	96	99	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300321 3300322 Original: J1915380013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Vanadium	ug/L	11	50	63	63	104	104	75-125	0	20	

QC Batch: DGMj/4306 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3300342

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300342

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

LABORATORY CONTROL SAMPLE: 3300343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	102	80-120	
Barium	ug/L	20	20	103	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	100	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	40	99	80-120	
Copper	ug/L	80	93	116	80-120	
Iron	ug/L	2000	2000	98	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	120	104	80-120	
Lead	ug/L	60	58	97	80-120	
Selenium	ug/L	800	780	98	80-120	
Zinc	ug/L	1000	1000	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300344 3300345 Original: J1915320016

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	200	99	101	75-125	2	20	
Barium	ug/L	20	20	39	40	99	101	75-125	1	20	
Beryllium	ug/L	0	10	9.7	9.9	97	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	98	99	75-125	1	20	
Cobalt	ug/L	0.2	40	40	40	101	101	75-125	0	20	
Chromium	ug/L	0	40	37	40	94	100	75-125	6	20	
Copper	ug/L	0.8	80	90	92	113	115	75-125	1	20	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300344 3300345 Original: J1915320016

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Iron	ug/L	660	2000	2600	2600	97	99	75-125	1	20	
Sodium	mg/L	7.3	7	14	14	94	96	75-125	1	20	
Nickel	ug/L	1.7	120	120	130	103	105	75-125	1	20	
Lead	ug/L	0	60	63	63	105	104	75-125	1	20	
Selenium	ug/L	0	800	770	790	97	99	75-125	2	20	
Zinc	ug/L	9.3	1000	1000	1000	103	104	75-125	1	20	

QC Batch: DGMj/4307 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 10:30

Associated Lab Samples: J1915380014, J1915380015, J1915380016, J1915380017, J1915380018

METHOD BLANK: 3300346

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	4.0	4.0	U

LABORATORY CONTROL SAMPLE: 3300347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver	ug/L	200	200	101	80-120	
Barium	ug/L	20	20	101	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	100	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	88	110	80-120	
Iron	ug/L	2000	2000	99	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	130	105	80-120	
Lead	ug/L	60	59	99	80-120	
Selenium	ug/L	800	800	100	80-120	
Zinc	ug/L	1000	1000	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300348 3300349 Original: J1915380014

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	93	94	75-125	1	20	
Barium	ug/L	86	20	110	110	119	114	75-125	1	20	
Beryllium	ug/L	2	10	12	12	101	102	75-125	1	20	
Cadmium	ug/L	0	20	14	14	69	70	75-125	1	20	
Cobalt	ug/L	28	40	71	71	107	106	75-125	1	20	
Chromium	ug/L	0	40	43	42	108	106	75-125	2	20	
Copper	ug/L	0.2	80	97	99	121	124	75-125	2	20	
Iron	ug/L	70000	2000	75000	74000	215	163	75-125	1	20	
Sodium	mg/L	31	7	40	40	124	118	75-125	1	20	
Nickel	ug/L	20	120	150	150	104	105	75-125	0	20	
Lead	ug/L	0	60	60	60	99	100	75-125	1	20	
Selenium	ug/L	0	800	760	750	95	94	75-125	1	20	
Zinc	ug/L	26	1000	1100	1100	112	112	75-125	0	20	

QC Batch: DGMj/4309 Analysis Method: SW-846 6010,Dissolved

QC Batch Method: SW-846 3010A Prepared: 11/25/2019 12:08

Associated Lab Samples: J1915380013

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300401

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Sodium	mg/L	0.35	0.35	U

LABORATORY CONTROL SAMPLE: 3300402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	100	80-120	
Barium	ug/L	20	20	102	80-120	
Beryllium	ug/L	10	9.5	95	80-120	
Cadmium	ug/L	20	20	101	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	38	94	80-120	
Copper	ug/L	80	78	98	80-120	
Iron	ug/L	2000	1900	97	80-120	
Sodium	mg/L	7	6.9	98	80-120	
Lead	ug/L	60	63	104	80-120	
Selenium	ug/L	800	780	98	80-120	
Zinc	ug/L	1000	1000	101	80-120	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Nickel	ug/L	120	130	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300403 3300404 Original: J1915380013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	170	170	86	86	75-125	1	20	
Barium	ug/L	66	20	85	84	97	92	75-125	1	20	
Beryllium	ug/L	3.7	10	14	14	101	102	75-125	1	20	
Cadmium	ug/L	1.7	20	22	22	100	100	75-125	0	20	
Cobalt	ug/L	23	40	63	61	100	96	75-125	3	20	
Chromium	ug/L	0.6	40	41	41	102	103	75-125	1	20	
Copper	ug/L	1.6	80	82	84	103	105	75-125	2	20	
Iron	ug/L	80000	2000	83000	84000	182	189	75-125	0	20	
Sodium	mg/L	22	7	29	30	104	107	75-125	1	20	
Nickel	ug/L	16	120	140	130	101	98	75-125	3	20	
Lead	ug/L	0	60	63	60	106	100	75-125	5	20	
Selenium	ug/L	0	800	930	910	116	113	75-125	3	20	
Zinc	ug/L	22	1000	1100	1000	107	104	75-125	3	20	

QC Batch: DGMj/4316 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/26/2019 03:30

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3301208

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	0.71	0.71	U
Arsenic	ug/L	0.077	0.077	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3301209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Vanadium	ug/L	50	47	94	80-120	
Arsenic	ug/L	50	46	92	80-120	
Antimony	ug/L	50	47	93	80-120	
Thallium	ug/L	50	48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301210 3301211 Original: J1915380001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Vanadium	ug/L	3	50	49	49	93	92	75-125	1	20	
Arsenic	ug/L	0.49	50	45	45	89	88	75-125	1	20	
Antimony	ug/L	0.078	50	47	47	95	94	75-125	1	20	
Thallium	ug/L	0.0026	50	49	49	98	97	75-125	1	20	

QC Batch: WCAj/6861 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3304621

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3304622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

SAMPLE DUPLICATE: 3304623 Original: J1915361001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	1100	1100	1	10	

QC Batch: WCAj/6862 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1915380017, J1915380018

METHOD BLANK: 3304624

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3304625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	290	96	85-115	

SAMPLE DUPLICATE: 3304626 Original: J1915380017

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	1600	1600	1	10	

QC Batch: WCAg/8950 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006

METHOD BLANK: 3307607

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3307608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.48	97	90-110	

LABORATORY CONTROL SAMPLE: 3307609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.22	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3307610 3307611 Original: G1910233009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0	2	2.0	2.0	100	100	90-110	0	10	

QC Batch: WCAg/8951 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1915380007, J1915380008, J1915380009, J1915380010, J1915380011, J1915380012, J1915380013, J1915380014,

METHOD BLANK: 3307612

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3307613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.48	97	90-110	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3307614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.22	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3307615 3307616 Original: J1915380007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	23	20	39	39	80	79	90-110	1	10	

QC Batch: WCAg/8952 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1915380017, J1915380018

METHOD BLANK: 3307628

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3307629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.48	95	90-110	

LABORATORY CONTROL SAMPLE: 3307630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.20	102	90-110	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3307631 3307632 Original: J1915380017

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	20	20	36	36	81	79	90-110	1	10	

QC Batch: MSVj/4698 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 12/03/2019 09:33

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3307995

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3307995

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	95	70-128	
Toluene-d8 (S)	%	86	77-119	
Bromofluorobenzene (S)	%	105	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3307996 3307997

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	24	24	120	118		1		
Vinyl Chloride	ug/L	20	23	22	113	108	70-130	4	20	
Bromomethane	ug/L	20	25	27	124	136		9		
Chloroethane	ug/L	20	23	23	113	114		1		
Trichlorofluoromethane	ug/L	20	23	23	114	115		1		
Acetone	ug/L	20	24	25	121	124		2		
1,1-Dichloroethylene	ug/L	20	24	24	119	119	70-130	0	20	
Iodomethane (Methyl Iodide)	ug/L	20	11	4.8	53	24		76		
Acrylonitrile	ug/L	20	23	25	116	124		6		
Methylene Chloride	ug/L	20	25	24	125	119		5		
Carbon Disulfide	ug/L	20	22	23	112	114		2		
trans-1,2-Dichloroethylene	ug/L	20	23	24	115	119		3		
1,1-Dichloroethane	ug/L	20	23	24	117	121		4		
Vinyl Acetate	ug/L	20	32	12	158	59		91		
2-Butanone (MEK)	ug/L	20	23	22	115	111		4		
cis-1,2-Dichloroethylene	ug/L	20	23	24	116	118	70-130	2	20	
Bromochloromethane	ug/L	20	24	25	119	126		6		

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3307996 3307997

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloroform	ug/L	20	24	24	118	119	70-130	1	20	
1,2-Dichloroethane	ug/L	20	24	26	122	130		6		
1,1,1-Trichloroethane	ug/L	20	22	23	112	114		2		
Carbon Tetrachloride	ug/L	20	23	23	117	117		0		
Benzene	ug/L	20	24	25	119	124	70-130	4	20	
Dibromomethane	ug/L	20	26	25	128	127		1		
1,2-Dichloropropane	ug/L	20	23	24	117	119		2		
Trichloroethene	ug/L	20	22	25	111	126	70-130	13	20	
Bromodichloromethane	ug/L	20	23	24	116	119		3		
cis-1,3-Dichloropropene	ug/L	20	24	23	118	114		3		
4-Methyl-2-pentanone (MIBK)	ug/L	20	21	22	105	109		3		
trans-1,3-Dichloropropylene	ug/L	20	24	23	119	113		5		
1,1,2-Trichloroethane	ug/L	20	25	26	125	130		4		
Toluene	ug/L	20	19	18	94	91	70-130	3	20	
2-Hexanone	ug/L	20	23	23	114	116		2		
Dibromochloromethane	ug/L	20	19	19	95	93		3		
Tetrachloroethylene (PCE)	ug/L	20	18	16	91	82	70-130	11	20	
1,1,1,2-Tetrachloroethane	ug/L	20	18	18	92	89		4		
Chlorobenzene	ug/L	20	19	18	94	91	70-130	3	20	
Ethylbenzene	ug/L	20	19	18	95	91	70-130	4	20	
Bromoform	ug/L	20	20	20	99	98		1		
Styrene	ug/L	20	19	18	93	92		2		
1,1,2,2-Tetrachloroethane	ug/L	20	24	18	118	93		24		
1,2,3-Trichloropropane	ug/L	20	24	21	121	105		14		
1,4-Dichlorobenzene	ug/L	20	16	15	80	76		4		
1,2-Dichlorobenzene	ug/L	20	17	16	85	82	70-130	3	20	
Xylene (Total)	ug/L	60	57	56	96	93	70-130	3	20	
1,2-Dichloroethane-d4 (S)	%				92	93	70-128	1		
Toluene-d8 (S)	%				84	82	77-119	3		
Bromofluorobenzene (S)	%				96	96	86-123	0		

MATRIX SPIKE SAMPLE: 3307998 Original: J1915380001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	21	106		
Vinyl Chloride	ug/L	0	20	20	98	70-130	
Bromomethane	ug/L	0	20	25	125		
Chloroethane	ug/L	0	20	21	105		
Trichlorofluoromethane	ug/L	0	20	20	102		

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307998 Original: J1915380001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	0	20	23	114		
1,1-Dichloroethylene	ug/L	0	20	22	111	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	5.0	25		
Acrylonitrile	ug/L	0	20	23	114		
Methylene Chloride	ug/L	0	20	22	109		
Carbon Disulfide	ug/L	0	20	22	108		
trans-1,2-Dichloroethylene	ug/L	0	20	22	109		
1,1-Dichloroethane	ug/L	0	20	23	114		
Vinyl Acetate	ug/L	0	20	35	176		
2-Butanone (MEK)	ug/L	0	20	26	130		
cis-1,2-Dichloroethylene	ug/L	0	20	23	114	70-130	
Bromochloromethane	ug/L	0	20	24	118		
Chloroform	ug/L	0	20	23	114	70-130	
1,2-Dichloroethane	ug/L	0	20	24	119		
1,1,1-Trichloroethane	ug/L	0	20	22	110		
Carbon Tetrachloride	ug/L	0	20	22	108		
Benzene	ug/L	4.1	20	27	113	70-130	
Dibromomethane	ug/L	0	20	23	117		
1,2-Dichloropropane	ug/L	0	20	23	116		
Trichloroethene	ug/L	0	20	21	104	70-130	
Bromodichloromethane	ug/L	0	20	23	113		
cis-1,3-Dichloropropene	ug/L	0	20	22	108		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	25	123		
trans-1,3-Dichloropropylene	ug/L	0	20	21	107		
1,1,2-Trichloroethane	ug/L	0	20	24	119		
Toluene	ug/L	0	20	18	91	70-130	
2-Hexanone	ug/L	0	20	22	109		
Dibromochloromethane	ug/L	0	20	19	94		
Tetrachloroethylene (PCE)	ug/L	0	20	16	81	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	18	91		
Chlorobenzene	ug/L	0	20	18	91	70-130	
Ethylbenzene	ug/L	0	20	18	90	70-130	
Bromoform	ug/L	0	20	18	91		
Styrene	ug/L	0	20	18	92		
1,1,2,2-Tetrachloroethane	ug/L	0	20	22	108		
1,2,3-Trichloropropane	ug/L	0	20	25	123		
1,4-Dichlorobenzene	ug/L	0	20	15	75		
1,2-Dichlorobenzene	ug/L	0	20	16	78	70-130	
Xylene (Total)	ug/L	0	60	54	90	70-130	
1,2-Dichloroethane-d4 (S)	%	100			89	70-128	
Toluene-d8 (S)	%	85			85	77-119	
Bromofluorobenzene (S)	%	105			99	86-123	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: MSVj/4700 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 12/03/2019 09:33

Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3308006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	90	77-125	
Toluene-d8 (S)	%	85	80-121	
Bromofluorobenzene (S)	%	105	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3308007 3308008

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.91	0.80	114	100	70-130	13	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.84	0.77	105	96	70-130	9	30	
1,2-Dichloroethane-d4 (S)	%				89	89	77-125	1		
Toluene-d8 (S)	%				86	82	80-121	5		
Bromofluorobenzene (S)	%				102	106	80-129	4		

MATRIX SPIKE SAMPLE: 3308009 Original: J1915380002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.80	100	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.72	90	70-130	
1,2-Dichloroethane-d4 (S)	%	92			89	77-125	
Toluene-d8 (S)	%	83			81	80-121	
Bromofluorobenzene (S)	%	104			101	80-129	

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/4347 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 12/04/2019 12:00
Associated Lab Samples: J1915380001, J1915380002, J1915380003, J1915380004, J1915380005, J1915380006, J1915380007, J1915380008,

METHOD BLANK: 3308058

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3308059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3308060 3308061 Original: J1915380001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.02	2	1.5	1.5	75	76	80-120	1	20	

QC Batch: DGMj/4348 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 12/04/2019 12:00
Associated Lab Samples: J1915380013

METHOD BLANK: 3308062

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	0.011	0.011	U

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QUALITY CONTROL DATA

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3308063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3308064 3308065 Original: J1915380013

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Mercury	ug/L	0	2	1.8	1.8	92	92	80-120	0	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915380001	19325-MW-6A			EPA 300.0	WCAj/6811
J1915380002	19325-MW-6B			EPA 300.0	WCAj/6811
J1915380003	19325-MW-7A			EPA 300.0	WCAj/6811
J1915380004	19325-MW-7B			EPA 300.0	WCAj/6811
J1915380005	19325-MW-8A			EPA 300.0	WCAj/6811
J1915380006	19325-MW-8B			EPA 300.0	WCAj/6811
J1915380007	19325-MW-10A			EPA 300.0	WCAj/6811
J1915380008	19325-MW-10B			EPA 300.0	WCAj/6811
J1915380009	19325-MW-24A			EPA 300.0	WCAj/6811
J1915380010	19325-MW-24B			EPA 300.0	WCAj/6811
J1915380011	19325-MW-25A			EPA 300.0	WCAj/6811
J1915380012	19325-MW-25B			EPA 300.0	WCAj/6811
J1915380013	19325-MW-31A			EPA 300.0	WCAj/6811
J1915380014	19325-MW-31B			EPA 300.0	WCAj/6811
J1915380015	19325-CW-2A			EPA 300.0	WCAj/6811
J1915380016	19325-CW-3A			EPA 300.0	WCAj/6811
J1915380017	19325-Dup-2			EPA 300.0	WCAj/6811
J1915380018	19325-EQ-2			EPA 300.0	WCAj/6811
J1915380013	19325-MW-31A	SW-846 3005A	DGMj/4302	SW-846 6020	ICMj/2199
J1915380001	19325-MW-6A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380002	19325-MW-6B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380003	19325-MW-7A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380004	19325-MW-7B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380005	19325-MW-8A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380006	19325-MW-8B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380007	19325-MW-10A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380008	19325-MW-10B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380009	19325-MW-24A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380010	19325-MW-24B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380011	19325-MW-25A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380012	19325-MW-25B	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388
J1915380013	19325-MW-31A	SW-846 3010A	DGMj/4306	SW-846 6010	ICPj/2388

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915380014	19325-MW-31B	SW-846 3010A	DGMj/4307	SW-846 6010	ICPj/2391
J1915380015	19325-CW-2A	SW-846 3010A	DGMj/4307	SW-846 6010	ICPj/2391
J1915380016	19325-CW-3A	SW-846 3010A	DGMj/4307	SW-846 6010	ICPj/2391
J1915380017	19325-Dup-2	SW-846 3010A	DGMj/4307	SW-846 6010	ICPj/2391
J1915380018	19325-EQ-2	SW-846 3010A	DGMj/4307	SW-846 6010	ICPj/2391
J1915380013	19325-MW-31A	SW-846 3005A	DGMj/4309	SW-846 6010,Dissolved	ICPj/2384
J1915380001	19325-MW-6A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380002	19325-MW-6B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380003	19325-MW-7A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380004	19325-MW-7B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380005	19325-MW-8A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380006	19325-MW-8B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380007	19325-MW-10A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380008	19325-MW-10B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380009	19325-MW-24A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380010	19325-MW-24B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380011	19325-MW-25A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380012	19325-MW-25B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380013	19325-MW-31A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380014	19325-MW-31B	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380015	19325-CW-2A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380016	19325-CW-3A	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380017	19325-Dup-2	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380018	19325-EQ-2	SW-846 3010A	DGMj/4316	SW-846 6020	ICMj/2187
J1915380001	19325-MW-6A			SM 2540 C	WCAj/6861
J1915380002	19325-MW-6B			SM 2540 C	WCAj/6861
J1915380003	19325-MW-7A			SM 2540 C	WCAj/6861
J1915380004	19325-MW-7B			SM 2540 C	WCAj/6861
J1915380005	19325-MW-8A			SM 2540 C	WCAj/6861
J1915380006	19325-MW-8B			SM 2540 C	WCAj/6861

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915380007	19325-MW-10A			SM 2540 C	WCAj/6861
J1915380008	19325-MW-10B			SM 2540 C	WCAj/6861
J1915380009	19325-MW-24A			SM 2540 C	WCAj/6861
J1915380010	19325-MW-24B			SM 2540 C	WCAj/6861
J1915380011	19325-MW-25A			SM 2540 C	WCAj/6861
J1915380012	19325-MW-25B			SM 2540 C	WCAj/6861
J1915380013	19325-MW-31A			SM 2540 C	WCAj/6861
J1915380014	19325-MW-31B			SM 2540 C	WCAj/6861
J1915380015	19325-CW-2A			SM 2540 C	WCAj/6861
J1915380016	19325-CW-3A			SM 2540 C	WCAj/6861
J1915380017	19325-Dup-2			SM 2540 C	WCAj/6862
J1915380018	19325-EQ-2			SM 2540 C	WCAj/6862
J1915380001	19325-MW-6A			EPA 350.1	WCAg/8950
J1915380002	19325-MW-6B			EPA 350.1	WCAg/8950
J1915380003	19325-MW-7A			EPA 350.1	WCAg/8950
J1915380004	19325-MW-7B			EPA 350.1	WCAg/8950
J1915380005	19325-MW-8A			EPA 350.1	WCAg/8950
J1915380006	19325-MW-8B			EPA 350.1	WCAg/8950
J1915380007	19325-MW-10A			EPA 350.1	WCAg/8951
J1915380008	19325-MW-10B			EPA 350.1	WCAg/8951
J1915380009	19325-MW-24A			EPA 350.1	WCAg/8951
J1915380010	19325-MW-24B			EPA 350.1	WCAg/8951
J1915380011	19325-MW-25A			EPA 350.1	WCAg/8951
J1915380012	19325-MW-25B			EPA 350.1	WCAg/8951
J1915380013	19325-MW-31A			EPA 350.1	WCAg/8951
J1915380014	19325-MW-31B			EPA 350.1	WCAg/8951
J1915380015	19325-CW-2A			EPA 350.1	WCAg/8951
J1915380016	19325-CW-3A			EPA 350.1	WCAg/8951
J1915380017	19325-Dup-2			EPA 350.1	WCAg/8952

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915380018	19325-EQ-2			EPA 350.1	WCAg/8952
J1915380001	19325-MW-6A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380002	19325-MW-6B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380003	19325-MW-7A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380004	19325-MW-7B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380005	19325-MW-8A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380006	19325-MW-8B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380007	19325-MW-10A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380008	19325-MW-10B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380009	19325-MW-24A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380010	19325-MW-24B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380011	19325-MW-25A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380012	19325-MW-25B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380013	19325-MW-31A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380014	19325-MW-31B	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380015	19325-CW-2A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380016	19325-CW-3A	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380017	19325-Dup-2	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380018	19325-EQ-2	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380019	19325-Trip Blank-6	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380020	19325-Trip Blank-7	SW-846 5030B	MSVj/4698	SW-846 8260B	MSVj/4699
J1915380001	19325-MW-6A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380002	19325-MW-6B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380003	19325-MW-7A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380004	19325-MW-7B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380005	19325-MW-8A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380006	19325-MW-8B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380007	19325-MW-10A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380008	19325-MW-10B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380009	19325-MW-24A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380010	19325-MW-24B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380011	19325-MW-25A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1915380 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1915380012	19325-MW-25B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380013	19325-MW-31A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380014	19325-MW-31B	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380015	19325-CW-2A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380016	19325-CW-3A	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380017	19325-Dup-2	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380018	19325-EQ-2	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380019	19325-Trip Blank-6	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380020	19325-Trip Blank-7	SW-846 5030B	MSVj/4700	SW-846 8260B (SIM)	MSVj/4701
J1915380001	19325-MW-6A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380002	19325-MW-6B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380003	19325-MW-7A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380004	19325-MW-7B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380005	19325-MW-8A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380006	19325-MW-8B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380007	19325-MW-10A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380008	19325-MW-10B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380009	19325-MW-24A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380010	19325-MW-24B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380011	19325-MW-25A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380012	19325-MW-25B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380013	19325-MW-31A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380014	19325-MW-31B	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380015	19325-CW-2A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380016	19325-CW-3A	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380017	19325-Dup-2	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380018	19325-EQ-2	SW-846 7470A	DGMj/4347	SW-846 7470A	CVAj/1737
J1915380013	19325-MW-31A	SW-846 7470A	DGMj/4348	SW-846 7470A	CVAj/1738

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • A
☐ Fort Myers: 13100 Westlinks Terrace, Suite 10 • Fort Myers
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 3
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 3
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.

407.937.1594 • Fax 407.937.1

J1915380

Client Name:	Waste Connections, Inc.	Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)	
Address:	5135 Madison Avenue	P.O. Number/Project Number:	
	Tampa, Florida 33619	Project Location:	
Phone:	813-468-6142	FDEP Facility No: 89544	
FAX:		Project Name and Address: JED SWPF 15011 Omni Way St. Cloud, FL	
Contact:	Kirk Wills		
Sampled By:	Neil Staples + Brad Montfort		
Turn Around Time:	☒ STANDARD ☐ RUSH	Special Instructions: Jax Profile: 31172	
Page 1 of 2		■ ADaPT ☐ EQuIS	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
							BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
							ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19325-MW-6A		G	11/21/19	1350	GW	6		3	1	1	1							001
19325-MW-6B				1354														002
19325-MW-7A				1348														003
19325-MW-7B				1420														004
19325-MW-8A				1230														005
19325-MW-8B				1304														006
19325-MW-10A				1054														007
19325-MW-10B				1126														008
19325-MW-24A				1112														009
19325-MW-24B		G	11/21/19	1050	GW	6		3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	11/21/19	1600	FedEx	11/21/19	1600
2	FedEx	11-22-19	9:00	[illegible]	11-22-19	9:00
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32714 • 407.767.1011
☐ Fort Myers: 13100 Westlinks Terrace, Suite 10 • Fort My
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 81

* J 1 9 1 5 3 8 0 *

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Neil Stapley + Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 2 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address:
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE								40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
ANALYSIS REQUIRED								App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
19325-MW-	25A	G	11/21/19	1232	GW	6		3	1	1	1							011
19325-MW-	25B	↓	↓	1200	↓	↓		↓	1	↓	↓							012
19325-MW-	31A	↓	↓	0926	↓	~~6~~ 7		↓	~~2~~ *	↓	↓		* one bottle filtered for dissolved one bottle unfiltered for total					013
19325-MW-	31B	G	↓	1006	↓	~~7~~ 6		↓	~~2~~ 1	↓	↓							014
19325-CW-2	A	↓	↓	0952	↓	6		↓	1	↓	↓							015
19325-CW-3	A	↓	↓	0900	↓	↓		↓	↓	↓	↓							016
19325-Dup-	2	↓	↓	0002	GW	↓		↓	↓	↓	↓							017
19325-EQ-	2	G	11/21/19	1502	~~GW~~ W	6		↓	1	1	1							018
19325-Trip Blank-	6 (Incl. on ch: 6A, 6B, 25A, 25B, CW-2A, 3A, Dup-2)	–	–	–	W	3		↓										019
19325-Trip Blank-	7 (Incl. on ch: 7A, 7B, 8A, 8B, 10A, 10B, 31A, 31B, EQ-2)	–	–	–	W	3		3										020

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received Y (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	11/21/19	1600	FedEx	11/21/19	1600
2	Fedex	11-22-19	9:00	[illegible]	11-22-19	9:00
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: WASTE CONNECTIONS, INC. Project name: J.E.D LANDFILL (F/K/A OAK...

Date/Time Rcvd: 11.22.19 /0900 Log-In request number: JT915380

Received by: BA Completed by: KE

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

-007 the HCL vial was not filled

-011 was labeled "24A" (times matched)

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of mercury for J1915380001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Copper in Continuing Calibration Verification (CCV) standards for analytical batch 2388, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Copper in Continuing Calibration Verification (CCV) standards for analytical batch 2391, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The control criteria for matrix spike recoveries of Iron for J1915380014 are not applicable. The analyte concentration in the sample was greater than 4 times the added spike concentrations, preventing accurate evaluation of the spike recovery. No further corrective action was required.

The matrix spike recovery of Cadmium for J1915380014 was outside control criteria due to the presence of target analytes in the sample. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 350.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of NH3 for J1915380007 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 350.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of NH3 for J1915380017 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1915380

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recovery of Chloride for J1915380010 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The affected sample is qualified accordingly.

The matrix spike (MS) recovery of Nitrate for J1915380010 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The offending analytes were not detected in the client sample. No further corrective action is required.

E. Serial Diluion:

F. Samples:

G. Other:

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

December 13, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, November 22, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

SAMPLE SUMMARY

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1921060001	19326-UL	Water	11/21/2019 09:15	11/22/2019 12:00
T1921060002	19326-TL	Water	11/21/2019 08:30	11/22/2019 12:00
T1921060003	Trip Blank	Water	11/22/2019 00:00	11/22/2019 12:00

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Aluminum	**120000**		**ug/L**	**1**	1600	250	12/4/2019 17:35	T
Arsenic	**170**		**ug/L**	**1**	100	28	12/4/2019 17:35	T
Barium	**1700**	**U**	**ug/L**	**1**	2000	1700	12/4/2019 17:35	T
Beryllium	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2019 17:35	T
Cadmium	**2.4**	**U**	**ug/L**	**1**	9.0	2.4	12/4/2019 17:35	T
Calcium	**360**		**mg/L**	**1**	3.0	0.72	12/4/2019 17:35	T
Chromium	**810**		**ug/L**	**1**	25	20	12/4/2019 17:35	T
Cobalt	**44**		**ug/L**	**1**	20	2.8	12/4/2019 17:35	T
Copper	**46**	**I**	**ug/L**	**1**	80	14	12/4/2019 17:35	T
Iron	**31000**		**ug/L**	**1**	1500	1400	12/4/2019 17:35	T
Lead	**78**	**U**	**ug/L**	**1**	100	78	12/4/2019 17:35	T
Magnesium	**110**		**mg/L**	**1**	5.0	4.4	12/4/2019 17:35	T
Manganese	**1000**		**ug/L**	**1**	20	4.9	12/4/2019 17:35	T
Nickel	**210**		**ug/L**	**1**	90	44	12/4/2019 17:35	T
Potassium	**1200**		**mg/L**	**2**	10	2.9	12/6/2019 13:44	T
Selenium	**120**	**I**	**ug/L**	**1**	300	120	12/4/2019 17:35	T
Silver	**34**	**U**	**ug/L**	**1**	50	34	12/4/2019 17:35	T
Sodium	**3200**		**mg/L**	**2**	12	10	12/6/2019 13:44	T
Tin	**47**	**I**	**ug/L**	**1**	100	18	12/4/2019 17:35	T
Vanadium	**620**		**ug/L**	**1**	10	5.8	12/4/2019 17:35	T
Zinc	**190**		**ug/L**	**1**	100	74	12/4/2019 17:35	T
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**19**	**I**	**ug/L**	**5**	35	5.5	12/5/2019 14:50	J
Thallium	**2.8**	**U**	**ug/L**	**5**	10	2.8	12/5/2019 14:50	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.50**	**U**	**ug/L**	**1**	1.0	0.50	11/26/2019 14:57	T
SEMIVOLATILES								
Analysis Desc: 8081B Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8081							
4,4`-DDD	**0.0066**	**U**	**ug/L**	**1**	0.080	0.0066	11/27/2019 00:14	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4,4`-DDE	**0.015**	**U**	**ug/L**	**1**	0.080	0.015	11/27/2019 00:14	J
4,4`-DDT	**0.0086**	**U**	**ug/L**	**1**	0.080	0.0086	11/27/2019 00:14	J
Aldrin	**0.0076**	**U**	**ug/L**	**1**	0.080	0.0076	11/27/2019 00:14	J
Chlordane (technical)	**0.21**	**U**	**ug/L**	**1**	0.80	0.21	11/27/2019 00:14	J
Dieldrin	**0.0044**	**U**	**ug/L**	**1**	0.080	0.0044	11/27/2019 00:14	J
Endosulfan I	**0.012**	**U**	**ug/L**	**1**	0.080	0.012	11/27/2019 00:14	J
Endosulfan II	**0.011**	**U**	**ug/L**	**1**	0.080	0.011	11/27/2019 00:14	J
Endosulfan Sulfate	**0.013**	**U**	**ug/L**	**1**	0.080	0.013	11/27/2019 00:14	J
Endrin	**0.0067**	**U**	**ug/L**	**1**	0.080	0.0067	11/27/2019 00:14	J
Endrin Aldehyde	**0.010**	**U**	**ug/L**	**1**	0.080	0.010	11/27/2019 00:14	J
Heptachlor	**0.014**	**U**	**ug/L**	**1**	0.080	0.014	11/27/2019 00:14	J
Heptachlor Epoxide	**0.0066**	**U**	**ug/L**	**1**	0.080	0.0066	11/27/2019 00:14	J
Methoxychlor	**0.023**	**U**	**ug/L**	**1**	0.080	0.023	11/27/2019 00:14	J
Toxaphene	**0.48**	**U**	**ug/L**	**1**	0.80	0.48	11/27/2019 00:14	J
alpha-BHC	**0.012**	**U**	**ug/L**	**1**	0.080	0.012	11/27/2019 00:14	J
beta-BHC	**0.0075**	**U**	**ug/L**	**1**	0.080	0.0075	11/27/2019 00:14	J
delta-BHC	**0.0034**	**U**	**ug/L**	**1**	0.080	0.0034	11/27/2019 00:14	J
gamma-BHC (Lindane)	**0.0074**	**U**	**ug/L**	**1**	0.080	0.0074	11/27/2019 00:14	J
Tetrachloro-m-xylene (S)	**5**	**J4**	**%**	**1**	44-124		11/27/2019 00:14	
Decachlorobiphenyl (S)	**7**	**J4**	**%**	**1**	48-137		11/27/2019 00:14	
Analysis Desc: 8141A Org Phos Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8141							
Atrazine	**0.28**	**U**	**ug/L**	**1**	0.80	0.28	11/26/2019 20:49	J
Azinphos-methyl	**0.23**	**U**	**ug/L**	**1**	0.80	0.23	11/26/2019 20:49	J
Chlorpyrifos	**0.16**	**U**	**ug/L**	**1**	0.80	0.16	11/26/2019 20:49	J
Chlorpyrifos-methyl	**0.24**	**U**	**ug/L**	**1**	0.80	0.24	11/26/2019 20:49	J
Demeton	**0.24**	**U**	**ug/L**	**1**	0.80	0.24	11/26/2019 20:49	J
Diazinon	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 20:49	J
Dimethoate	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 20:49	J
Disulfoton	**0.16**	**U**	**ug/L**	**1**	0.80	0.16	11/26/2019 20:49	J
Ethion	**0.27**	**U**	**ug/L**	**1**	0.80	0.27	11/26/2019 20:49	J
Ethoprop	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 20:49	J
Famphur	**0.44**	**U**	**ug/L**	**1**	0.80	0.44	11/26/2019 20:49	J
Fensulfothion	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 20:49	J
Fonophos	**0.20**	**U**	**ug/L**	**1**	0.80	0.20	11/26/2019 20:49	J
Malathion	**0.29**	**U**	**ug/L**	**1**	0.80	0.29	11/26/2019 20:49	J
Merphos	**0.23**	**U**	**ug/L**	**1**	0.80	0.23	11/26/2019 20:49	J
Methyl Parathion	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 20:49	J
Mevinphos	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 20:49	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Parathion (Ethyl)	**0.26**	**U**	**ug/L**	**1**	0.80	0.26	11/26/2019 20:49	J
Phorate	**0.17**	**U**	**ug/L**	**1**	0.80	0.17	11/26/2019 20:49	J
Phosmet	**0.31**	**U**	**ug/L**	**1**	0.80	0.31	11/26/2019 20:49	J
Ronnel	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 20:49	J
Simazine	**0.29**	**U**	**ug/L**	**1**	0.80	0.29	11/26/2019 20:49	J
Tributylphosphate (S)	**37**	**J4**	**%**	**1**	48.5-121		11/26/2019 20:49	J
Analysis Desc: 8151A Herbicides Analysis, Water	Preparation Method: 8151							
	Analytical Method: EPA 8151							
2,4,5-T	**3.3**	**U**	**ug/L**	**10**	20	3.3	12/4/2019 21:22	J
2,4-D	**13**	**U**	**ug/L**	**10**	60	13	12/4/2019 21:22	J
2,4-DB	**17**	**U**	**ug/L**	**10**	60	17	12/4/2019 21:22	J
Dalapon	**76**	**U**	**ug/L**	**10**	200	76	12/4/2019 21:22	J
Dicamba	**7.5**	**U**	**ug/L**	**10**	20	7.5	12/4/2019 21:22	J
Dichloroprop	**8.7**	**U**	**ug/L**	**10**	60	8.7	12/4/2019 21:22	J
Dinoseb	**5.1**	**U**	**ug/L**	**10**	200	5.1	12/4/2019 21:22	J
Pentachlorophenol	**2.9**	**U**	**ug/L**	**10**	10	2.9	12/4/2019 21:22	J
Silvex (2,4,5-TP)	**3.0**	**U**	**ug/L**	**10**	20	3.0	12/4/2019 21:22	J
2,4-Dichlorophenylacetic acid (S)	**0**	**2**	**%**	**10**	41-122		12/4/2019 21:22	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011							
	Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	12/5/2019 17:49	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	12/5/2019 17:49	J
Tetrachloro-m-xylene (S)	**149**		**%**	**1**	64-150		12/5/2019 17:49	
Analysis Desc: 8082A PCB Analysis, Water	Preparation Method: SW-846 3510C							
	Analytical Method: SW-846 8082A							
Aroclor 1016 (PCB-1016)	**0.26**	**U**	**ug/L**	**1**	0.80	0.26	11/27/2019 00:14	J
Aroclor 1221 (PCB-1221)	**0.44**	**U**	**ug/L**	**1**	0.80	0.44	11/27/2019 00:14	J
Aroclor 1232 (PCB-1232)	**0.39**	**U**	**ug/L**	**1**	0.80	0.39	11/27/2019 00:14	J
Aroclor 1242 (PCB-1242)	**0.38**	**U**	**ug/L**	**1**	0.80	0.38	11/27/2019 00:14	J
Aroclor 1248 (PCB-1248)	**0.27**	**U**	**ug/L**	**1**	0.80	0.27	11/27/2019 00:14	J
Aroclor 1254 (PCB-1254)	**0.20**	**U**	**ug/L**	**1**	0.80	0.20	11/27/2019 00:14	J
Aroclor 1260 (PCB-1260)	**0.32**	**U**	**ug/L**	**1**	0.80	0.32	11/27/2019 00:14	J
Tetrachloro-m-xylene (S)	**5**	**J4**	**%**	**1**	61-119		11/27/2019 00:14	
Decachlorobiphenyl (S)	**7**	**J4**	**%**	**1**	44-136		11/27/2019 00:14	

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8270C Analysis, Water	Preparation Method: SW-846 3510C							
	Analytical Method: SW-846 8270C							
1,2,4,5-Tetrachlorobenzene	**32**	**U**	**ug/L**	**5**	120	32	12/2/2019 06:07	J
1,2,4-Trichlorobenzene	**17**	**U**	**ug/L**	**5**	120	17	12/2/2019 06:07	J
1,2-Dichlorobenzene	**34**	**U**	**ug/L**	**5**	120	34	12/2/2019 06:07	J
1,2-Diphenylhydrazine	**23**	**U**	**ug/L**	**5**	120	23	12/2/2019 06:07	J
1,3,5-Trinitrobenzene	**59**	**U**	**ug/L**	**5**	120	59	12/2/2019 06:07	J
1,3-Dichlorobenzene	**25**	**U**	**ug/L**	**5**	120	25	12/2/2019 06:07	J
1,3-Dinitrobenzene	**50**	**U**	**ug/L**	**5**	120	50	12/2/2019 06:07	J
1,4-Dichlorobenzene	**48**	**U**	**ug/L**	**5**	120	48	12/2/2019 06:07	J
1,4-Naphthoquinone	**110**	**U**	**ug/L**	**5**	120	110	12/2/2019 06:07	J
1,4-Phenylenediamine	**120**	**U**	**ug/L**	**5**	1900	120	12/2/2019 06:07	J
1-Methylnaphthalene	**1.2**	**U**	**ug/L**	**5**	4.8	1.2	12/2/2019 06:07	J
1-Naphthylamine	**23**	**U**	**ug/L**	**5**	120	23	12/2/2019 06:07	J
2,3,4,6-Tetrachlorophenol	**31**	**U**	**ug/L**	**5**	120	31	12/2/2019 06:07	J
2,4,5-Trichlorophenol	**32**	**U**	**ug/L**	**5**	120	32	12/2/2019 06:07	J
2,4,6-Trichlorophenol	**34**	**U**	**ug/L**	**5**	120	34	12/2/2019 06:07	J
2,4-Dichlorophenol	**22**	**U**	**ug/L**	**5**	120	22	12/2/2019 06:07	J
2,4-Dimethylphenol	**63**	**U**	**ug/L**	**5**	120	63	12/2/2019 06:07	J
2,4-Dinitrophenol	**26**	**U**	**ug/L**	**5**	240	26	12/2/2019 06:07	J
2,4-Dinitrotoluene (2,4-DNT)	**44**	**U**	**ug/L**	**5**	120	44	12/2/2019 06:07	J
2,6-Dichlorophenol	**32**	**U**	**ug/L**	**5**	120	32	12/2/2019 06:07	J
2,6-Dinitrotoluene (2,6-DNT)	**47**	**U**	**ug/L**	**5**	120	47	12/2/2019 06:07	J
2-Acetylaminofluorene	**85**	**U**	**ug/L**	**5**	120	85	12/2/2019 06:07	J
2-Chloronaphthalene	**40**	**U**	**ug/L**	**5**	120	40	12/2/2019 06:07	J
2-Chlorophenol	**36**	**U**	**ug/L**	**5**	120	36	12/2/2019 06:07	J
2-Methyl-4,6-dinitrophenol	**28**	**U**	**ug/L**	**5**	120	28	12/2/2019 06:07	J
2-Methylnaphthalene	**1.2**	**U**	**ug/L**	**5**	4.8	1.2	12/2/2019 06:07	J
2-Methylphenol (o-Cresol)	**35**	**U**	**ug/L**	**5**	120	35	12/2/2019 06:07	J
2-Naphthylamine	**21**	**U**	**ug/L**	**5**	120	21	12/2/2019 06:07	J
2-Nitroaniline	**37**	**U**	**ug/L**	**5**	120	37	12/2/2019 06:07	J
2-Nitrophenol	**15**	**U**	**ug/L**	**5**	120	15	12/2/2019 06:07	J
2-Picoline (2-Methylpyridine)	**29**	**U**	**ug/L**	**5**	120	29	12/2/2019 06:07	J
3+4-Methylphenol(mp-Cresol)	**870**		**ug/L**	**5**	120	24	12/2/2019 06:07	J
3,3'-Dimethylbenzidine	**57**	**U**	**ug/L**	**5**	120	57	12/2/2019 06:07	J
3,3`-Dichlorobenzidine	**30**	**U**	**ug/L**	**5**	120	30	12/2/2019 06:07	J
3-Methylcholanthrene	**45**	**U**	**ug/L**	**5**	120	45	12/2/2019 06:07	J
3-Nitroaniline	**26**	**U**	**ug/L**	**5**	120	26	12/2/2019 06:07	J
4-Aminobiphenyl	**15**	**U**	**ug/L**	**5**	120	15	12/2/2019 06:07	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Bromophenyl Phenyl Ether	**27**	**U**	**ug/L**	**5**	120	27	12/2/2019 06:07	J
4-Chloro-3-methylphenol	**15**	**U**	**ug/L**	**5**	120	15	12/2/2019 06:07	J
4-Chloroaniline	**22**	**U**	**ug/L**	**5**	120	22	12/2/2019 06:07	J
4-Chlorophenyl Phenyl Ether	**39**	**U**	**ug/L**	**5**	120	39	12/2/2019 06:07	J
4-Dimethyl aminoazobenzene	**18**	**U**	**ug/L**	**5**	120	18	12/2/2019 06:07	J
4-Nitroaniline	**31**	**U**	**ug/L**	**5**	120	31	12/2/2019 06:07	J
4-Nitrophenol	**69**	**U**	**ug/L**	**5**	120	69	12/2/2019 06:07	J
5-Nitro-o-toluidine	**69**	**U**	**ug/L**	**5**	120	69	12/2/2019 06:07	J
7,12-Dimethylbenz[a]anthracene	**26**	**U**	**ug/L**	**5**	120	26	12/2/2019 06:07	J
Acenaphthene	**0.96**	**U**	**ug/L**	**5**	4.8	0.96	12/2/2019 06:07	J
Acenaphthylene	**1.0**	**U**	**ug/L**	**5**	4.8	1.0	12/2/2019 06:07	J
Acetophenone	**41**	**I**	**ug/L**	**5**	120	38	12/2/2019 06:07	J
Aniline	**21**	**U**	**ug/L**	**5**	120	21	12/2/2019 06:07	J
Anthracene	**0.85**	**U**	**ug/L**	**5**	4.8	0.85	12/2/2019 06:07	J
Benzidine	**29**	**U**	**ug/L**	**5**	120	29	12/2/2019 06:07	J
Benzo[a]anthracene	**0.30**	**U**	**ug/L**	**5**	4.8	0.30	12/2/2019 06:07	J
Benzo[a]pyrene	**0.89**	**U**	**ug/L**	**5**	4.8	0.89	12/2/2019 06:07	J
Benzo[b]fluoranthene	**0.30**	**U**	**ug/L**	**5**	2.4	0.30	12/2/2019 06:07	J
Benzo[g,h,i]perylene	**1.1**	**U**	**ug/L**	**5**	4.8	1.1	12/2/2019 06:07	J
Benzo[k]fluoranthene	**1.2**	**U**	**ug/L**	**5**	4.8	1.2	12/2/2019 06:07	J
Benzoic Acid	**2800**		**ug/L**	**10**	480	37	12/3/2019 02:39	J
Benzyl Alcohol	**56**	**U**	**ug/L**	**5**	120	56	12/2/2019 06:07	J
Butyl benzyl phthalate	**26**	**U**	**ug/L**	**5**	120	26	12/2/2019 06:07	J
Chlorobenzilate	**48**	**U**	**ug/L**	**5**	120	48	12/2/2019 06:07	J
Chrysene	**0.79**	**U**	**ug/L**	**5**	4.8	0.79	12/2/2019 06:07	J
Di-n-Butyl Phthalate	**21**	**U**	**ug/L**	**5**	120	21	12/2/2019 06:07	J
Di-n-octyl Phthalate	**29**	**U**	**ug/L**	**5**	120	29	12/2/2019 06:07	J
Diallate	**27**	**U**	**ug/L**	**5**	120	27	12/2/2019 06:07	J
Dibenzo[a,h]anthracene	**0.57**	**U**	**ug/L**	**5**	4.8	0.57	12/2/2019 06:07	J
Dibenzofuran	**1.7**	**U**	**ug/L**	**5**	120	1.7	12/2/2019 06:07	J
Diethyl phthalate	**50**	**U**	**ug/L**	**5**	120	50	12/2/2019 06:07	J
Dimethoate	**29**	**U**	**ug/L**	**5**	120	29	12/2/2019 06:07	J
Dimethyl phthalate	**43**	**U**	**ug/L**	**5**	240	43	12/2/2019 06:07	J
Dinoseb	**55**	**U**	**ug/L**	**5**	120	55	12/2/2019 06:07	J
Diphenylamine	**50**	**U**	**ug/L**	**5**	120	50	12/2/2019 06:07	J
Disulfoton	**52**	**U**	**ug/L**	**5**	120	52	12/2/2019 06:07	J
Ethyl methanesulfonate	**22**	**U**	**ug/L**	**5**	120	22	12/2/2019 06:07	J
Famphur	**48**	**U**	**ug/L**	**5**	120	48	12/2/2019 06:07	J
Fluoranthene	**0.89**	**U**	**ug/L**	**5**	4.8	0.89	12/2/2019 06:07	J
Fluorene	**0.92**	**U**	**ug/L**	**5**	4.8	0.92	12/2/2019 06:07	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Hexachlorobenzene	**24**	**U**	**ug/L**	**5**	120	24	12/2/2019 06:07	J
Hexachlorobutadiene	**30**	**U**	**ug/L**	**5**	120	30	12/2/2019 06:07	J
Hexachlorocyclopentadiene	**25**	**U**	**ug/L**	**5**	120	25	12/2/2019 06:07	J
Hexachloroethane	**30**	**U**	**ug/L**	**5**	120	30	12/2/2019 06:07	J
Hexachloropropene	**64**	**U**	**ug/L**	**5**	120	64	12/2/2019 06:07	J
Indeno(1,2,3-cd)pyrene	**0.27**	**U**	**ug/L**	**5**	4.8	0.27	12/2/2019 06:07	J
Isodrin	**74**	**U**	**ug/L**	**5**	120	74	12/2/2019 06:07	J
Isophorone	**27**	**U**	**ug/L**	**5**	120	27	12/2/2019 06:07	J
Isosafrole	**76**	**U**	**ug/L**	**5**	120	76	12/2/2019 06:07	J
Kepone	**120**	**U**	**ug/L**	**5**	1900	120	12/2/2019 06:07	J
Methapyrilene	**44**	**U**	**ug/L**	**5**	120	44	12/2/2019 06:07	J
Methyl Methanesulfonate	**16**	**U**	**ug/L**	**5**	120	16	12/2/2019 06:07	J
Methyl Parathion	**31**	**U**	**ug/L**	**5**	120	31	12/2/2019 06:07	J
N-Nitrosodi-n-butylamine	**35**	**U**	**ug/L**	**5**	120	35	12/2/2019 06:07	J
N-Nitrosodi-n-propylamine	**54**	**U**	**ug/L**	**5**	120	54	12/2/2019 06:07	J
N-Nitrosodiethylamine	**51**	**U**	**ug/L**	**5**	120	51	12/2/2019 06:07	J
N-Nitrosodimethylamine	**22**	**U**	**ug/L**	**5**	120	22	12/2/2019 06:07	J
N-Nitrosodiphenylamine	**50**	**U**	**ug/L**	**5**	120	50	12/2/2019 06:07	J
N-Nitrosomethylethylamine	**65**	**U**	**ug/L**	**5**	120	65	12/2/2019 06:07	J
N-Nitrosopiperidine	**30**	**U**	**ug/L**	**5**	120	30	12/2/2019 06:07	J
N-Nitrosopyrrolidine	**51**	**U**	**ug/L**	**5**	120	51	12/2/2019 06:07	J
Naphthalene	**1.1**	**U**	**ug/L**	**5**	4.8	1.1	12/2/2019 06:07	J
Nitrobenzene	**27**	**U**	**ug/L**	**5**	120	27	12/2/2019 06:07	J
Nitroquinoline-1-oxide	**48**	**U**	**ug/L**	**5**	120	48	12/2/2019 06:07	J
Pentachlorobenzene	**32**	**U**	**ug/L**	**5**	120	32	12/2/2019 06:07	J
Pentachloronitrobenzene	**42**	**U**	**ug/L**	**5**	120	42	12/2/2019 06:07	J
Pentachlorophenol	**23**	**U**	**ug/L**	**5**	120	23	12/2/2019 06:07	J
Phenacetin	**76**	**U**	**ug/L**	**5**	120	76	12/2/2019 06:07	J
Phenanthrene	**0.95**	**U**	**ug/L**	**5**	4.8	0.95	12/2/2019 06:07	J
Phenol	**410**		**ug/L**	**5**	120	13	12/2/2019 06:07	J
Phorate	**28**	**U**	**ug/L**	**5**	120	28	12/2/2019 06:07	J
Pronamide (Kerb)	**87**	**U**	**ug/L**	**5**	120	87	12/2/2019 06:07	J
Pyrene	**0.86**	**U**	**ug/L**	**5**	4.8	0.86	12/2/2019 06:07	J
Safrole	**84**	**U**	**ug/L**	**5**	120	84	12/2/2019 06:07	J
Thionazin (Zinophos)	**28**	**U**	**ug/L**	**5**	120	28	12/2/2019 06:07	J
a,a-Dimethylphenethylamine	**45**	**U**	**ug/L**	**5**	120	45	12/2/2019 06:07	J
bis(2-Chloroethoxy)methane	**30**	**U**	**ug/L**	**5**	120	30	12/2/2019 06:07	J
bis(2-Chloroethyl)Ether	**35**	**U**	**ug/L**	**5**	120	35	12/2/2019 06:07	J
bis(2-Chloroisopropyl) Ether	**34**	**U**	**ug/L**	**5**	120	34	12/2/2019 06:07	J
bis(2-Ethylhexyl) phthalate	**48**	**U**	**ug/L**	**5**	120	48	12/2/2019 06:07	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
o,o,o-Triethylphosphorothioate	**71**	**U**	**ug/L**	**5**	120	71	12/2/2019 06:07	J
o-Toluidine	**59**	**U**	**ug/L**	**5**	120	59	12/2/2019 06:07	J
2-Fluorophenol (S)	**0**	**1**	**%**	**5**	31-134		12/2/2019 06:07	
Phenol-d6 (S)	**0**	**1**	**%**	**5**	24-120		12/2/2019 06:07	
Nitrobenzene-d5 (S)	**0**	**1**	**%**	**5**	38-139		12/2/2019 06:07	
2-Fluorobiphenyl (S)	**0**	**1**	**%**	**5**	42-138		12/2/2019 06:07	
2,4,6-Tribromophenol (S)	**0**	**1**	**%**	**5**	48-147		12/2/2019 06:07	
p-Terphenyl-d14 (S)	**0**	**1**	**%**	**5**	61-154		12/2/2019 06:07	

VOLATILES

Analysis Desc: 8260B VOCs Analysis, Water
Preparation Method: SW-846 5030B
Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	**54**	**U**	**ug/L**	**100**	100	54	12/4/2019 22:06	J
1,1,1-Trichloroethane	**22**	**U**	**ug/L**	**100**	100	22	12/4/2019 22:06	J
1,1,2,2-Tetrachloroethane	**20**	**U**	**ug/L**	**100**	100	20	12/4/2019 22:06	J
1,1,2-Trichloroethane	**30**	**U**	**ug/L**	**100**	100	30	12/4/2019 22:06	J
1,1-Dichloroethane	**14**	**U**	**ug/L**	**100**	100	14	12/4/2019 22:06	J
1,1-Dichloroethylene	**18**	**U**	**ug/L**	**100**	100	18	12/4/2019 22:06	J
1,1-Dichloropropene	**24**	**U**	**ug/L**	**100**	100	24	12/4/2019 22:06	J
1,2,3-Trichloropropane	**91**	**U**	**ug/L**	**100**	100	91	12/4/2019 22:06	J
1,2-Dibromo-3-Chloropropane	**310**	**U**	**ug/L**	**100**	500	310	12/4/2019 22:06	J
1,2-Dichlorobenzene	**18**	**U**	**ug/L**	**100**	100	18	12/4/2019 22:06	J
1,2-Dichloroethane	**23**	**U**	**ug/L**	**100**	100	23	12/4/2019 22:06	J
1,2-Dichloropropane	**66**	**U**	**ug/L**	**100**	100	66	12/4/2019 22:06	J
1,3-Dichlorobenzene	**19**	**U**	**ug/L**	**100**	100	19	12/4/2019 22:06	J
1,3-Dichloropropane	**24**	**U**	**ug/L**	**100**	100	24	12/4/2019 22:06	J
1,4-Dichlorobenzene	**22**	**U**	**ug/L**	**100**	100	22	12/4/2019 22:06	J
2,2-Dichloropropane	**22**	**U**	**ug/L**	**100**	100	22	12/4/2019 22:06	J
2-Butanone (MEK)	**5900**		**ug/L**	**100**	500	43	12/4/2019 22:06	J
2-Hexanone	**71**	**U**	**ug/L**	**100**	500	71	12/4/2019 22:06	J
4-Methyl-2-pentanone (MIBK)	**150**		**ug/L**	**100**	100	47	12/4/2019 22:06	J
Acetone	**6800**		**ug/L**	**100**	500	210	12/4/2019 22:06	J
Acetonitrile	**2100**	**U**	**ug/L**	**100**	5000	2100	12/4/2019 22:06	J
Acrolein (Propenal)	**160**	**U**	**ug/L**	**100**	1000	160	12/4/2019 22:06	J
Acrylonitrile	**110**	**U**	**ug/L**	**100**	1000	110	12/4/2019 22:06	J
Allyl Chloride(3-Chloropropene	**210**	**U**	**ug/L**	**100**	1000	210	12/4/2019 22:06	J
Benzene	**16**	**U**	**ug/L**	**100**	100	16	12/4/2019 22:06	J
Bromochloromethane	**17**	**U**	**ug/L**	**100**	100	17	12/4/2019 22:06	J
Bromodichloromethane	**46**	**U**	**ug/L**	**100**	100	46	12/4/2019 22:06	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromoform	**44**	**U**	**ug/L**	**100**	100	44	12/4/2019 22:06	J
Bromomethane	**29**	**U**	**ug/L**	**100**	100	29	12/4/2019 22:06	J
Carbon Disulfide	**67**	**U**	**ug/L**	**100**	100	67	12/4/2019 22:06	J
Carbon Tetrachloride	**36**	**U**	**ug/L**	**100**	100	36	12/4/2019 22:06	J
Chlorobenzene	**21**	**U**	**ug/L**	**100**	100	21	12/4/2019 22:06	J
Chloroethane	**33**	**U**	**ug/L**	**100**	100	33	12/4/2019 22:06	J
Chloroform	**37**	**I**	**ug/L**	**100**	100	18	12/4/2019 22:06	J
Chloromethane	**21**	**U**	**ug/L**	**100**	100	21	12/4/2019 22:06	J
Chloroprene	**200**	**U**	**ug/L**	**100**	500	200	12/4/2019 22:06	J
Dibromochloromethane	**33**	**U**	**ug/L**	**100**	100	33	12/4/2019 22:06	J
Dibromomethane	**26**	**U**	**ug/L**	**100**	100	26	12/4/2019 22:06	J
Dichlorodifluoromethane	**19**	**U**	**ug/L**	**100**	100	19	12/4/2019 22:06	J
Ethyl Methacrylate	**210**	**U**	**ug/L**	**100**	1000	210	12/4/2019 22:06	J
Ethylbenzene	**24**	**U**	**ug/L**	**100**	100	24	12/4/2019 22:06	J
Ethylene Dibromide (EDB)	**20**	**U**	**ug/L**	**100**	100	20	12/4/2019 22:06	J
Iodomethane (Methyl Iodide)	**16**	**U**	**ug/L**	**100**	100	16	12/4/2019 22:06	J
Isobutyl Alcohol	**4400**	**U**	**ug/L**	**100**	20000	4400	12/4/2019 22:06	J
Methacrylonitrile	**1800**	**U**	**ug/L**	**100**	10000	1800	12/4/2019 22:06	J
Methyl Methacrylate	**180**	**U**	**ug/L**	**100**	500	180	12/4/2019 22:06	J
Methylene Chloride	**250**	**U**	**ug/L**	**100**	500	250	12/4/2019 22:06	J
Propionitrile (Ethyl cyanide)	**2100**	**U**	**ug/L**	**100**	10000	2100	12/4/2019 22:06	J
Styrene	**23**	**U**	**ug/L**	**100**	100	23	12/4/2019 22:06	J
Tetrachloroethylene (PCE)	**36**	**U**	**ug/L**	**100**	100	36	12/4/2019 22:06	J
Toluene	**27**	**I**	**ug/L**	**100**	100	23	12/4/2019 22:06	J
Trichloroethene	**29**	**U**	**ug/L**	**100**	100	29	12/4/2019 22:06	J
Trichlorofluoromethane	**32**	**U**	**ug/L**	**100**	100	32	12/4/2019 22:06	J
Vinyl Acetate	**19**	**U**	**ug/L**	**100**	100	19	12/4/2019 22:06	J
Vinyl Chloride	**20**	**U**	**ug/L**	**100**	100	20	12/4/2019 22:06	J
Xylene (Total)	**53**	**U**	**ug/L**	**100**	200	53	12/4/2019 22:06	J
cis-1,2-Dichloroethylene	**24**	**U**	**ug/L**	**100**	100	24	12/4/2019 22:06	J
cis-1,3-Dichloropropene	**16**	**U**	**ug/L**	**100**	100	16	12/4/2019 22:06	J
trans-1,2-Dichloroethylene	**20**	**U**	**ug/L**	**100**	100	20	12/4/2019 22:06	J
trans-1,3-Dichloropropylene	**21**	**U**	**ug/L**	**100**	100	21	12/4/2019 22:06	J
trans-1,4-Dichloro-2-butene	**180**	**U**	**ug/L**	**100**	1000	180	12/4/2019 22:06	J
1,2-Dichloroethane-d4 (S)	**83**		**%**	**100**	70-128		12/4/2019 22:06	
Toluene-d8 (S)	**80**		**%**	**100**	77-119		12/4/2019 22:06	
Bromofluorobenzene (S)	**102**		**%**	**100**	86-123		12/4/2019 22:06	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water Analytical Method: EPA 300.0

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060001** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-UL** Date Collected: 11/21/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromide	**29**		**mg/L**	**25**	2.5	2.2	12/4/2019 10:58	T
Chloride	**4300**		**mg/L**	**25**	120	25	12/4/2019 10:58	T
Fluoride	**2.5**	**U**	**mg/L**	**25**	12	2.5	12/4/2019 10:58	T
Sulfate	**25**	**U**	**mg/L**	**25**	120	25	12/4/2019 10:58	T
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**6700**		**mg/L**	**2000**	200	40	11/25/2019 12:05	T
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**13000**		**mg/L**	**10**	500	240	11/25/2019 12:00	T
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**170**		**mg/L**	**1**	20	5.0	12/3/2019 13:02	T
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	20	5.0	12/3/2019 13:02	T
Alkalinity, Total	**170**		**mg/L**	**1**	20	5.0	12/3/2019 13:02	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**18000**		**mg/L**	**5**	50	50	11/25/2019 15:00	T
Analysis Desc: Cyanide, SM4500-E, Water	Analytical Method: SM 4500-CN-E							
Cyanide	**0.024**	**U**	**mg/L**	**5**	0.050	0.024	11/25/2019 14:05	T
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Sulfide	**25**		**mg/L**	**50**	2.5	0.41	11/26/2019 09:35	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Analytical Method: SM 4500NO3-F							
Nitrate (as N)	**12**		**mg/L**	**100**	10	7.9	11/22/2019 15:54	T
Nitrite (as N)	**7.7**	**U**	**mg/L**	**100**	10	7.7	11/22/2019 15:54	T
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**570**		**mg/L**	**10**	20	20	11/22/2019 17:40	T

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Aluminum	**100000**		**ug/L**	**1**	1600	250	12/4/2019 17:39	T
Arsenic	**200**		**ug/L**	**1**	100	28	12/4/2019 17:39	T
Barium	**1700**	**U**	**ug/L**	**1**	2000	1700	12/4/2019 17:39	T
Beryllium	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2019 17:39	T
Cadmium	**3.1**	**I**	**ug/L**	**1**	9.0	2.4	12/4/2019 17:39	T
Calcium	**590**		**mg/L**	**1**	3.0	0.72	12/4/2019 17:39	T
Chromium	**750**		**ug/L**	**1**	25	20	12/4/2019 17:39	T
Cobalt	**40**		**ug/L**	**1**	20	2.8	12/4/2019 17:39	T
Copper	**66**	**I**	**ug/L**	**1**	80	14	12/4/2019 17:39	T
Iron	**120000**		**ug/L**	**1**	1500	1400	12/4/2019 17:39	T
Lead	**78**	**U**	**ug/L**	**1**	100	78	12/4/2019 17:39	T
Magnesium	**140**		**mg/L**	**1**	5.0	4.4	12/4/2019 17:39	T
Manganese	**2200**		**ug/L**	**1**	20	4.9	12/4/2019 17:39	T
Nickel	**150**		**ug/L**	**1**	90	44	12/4/2019 17:39	T
Potassium	**1300**		**mg/L**	**2**	10	2.9	12/6/2019 13:47	T
Selenium	**120**	**I**	**ug/L**	**1**	300	120	12/4/2019 17:39	T
Silver	**34**	**U**	**ug/L**	**1**	50	34	12/4/2019 17:39	T
Sodium	**3300**		**mg/L**	**2**	12	10	12/6/2019 13:47	T
Tin	**45**	**I**	**ug/L**	**1**	100	18	12/4/2019 17:39	T
Vanadium	**550**		**ug/L**	**1**	10	5.8	12/4/2019 17:39	T
Zinc	**310**		**ug/L**	**1**	100	74	12/4/2019 17:39	T
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**24**	**I**	**ug/L**	**5**	35	5.5	12/5/2019 14:53	J
Thallium	**2.8**	**U**	**ug/L**	**5**	10	2.8	12/5/2019 14:53	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.50**	**U**	**ug/L**	**1**	1.0	0.50	11/26/2019 15:00	T
SEMIVOLATILES								
Analysis Desc: 8081B Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8081							
4,4`-DDD	**0.0066**	**U**	**ug/L**	**1**	0.080	0.0066	11/27/2019 00:37	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4,4`-DDE	**0.015**	**U**	**ug/L**	**1**	0.080	0.015	11/27/2019 00:37	J
4,4`-DDT	**0.0086**	**U**	**ug/L**	**1**	0.080	0.0086	11/27/2019 00:37	J
Aldrin	**0.0076**	**U**	**ug/L**	**1**	0.080	0.0076	11/27/2019 00:37	J
Chlordane (technical)	**0.21**	**U**	**ug/L**	**1**	0.80	0.21	11/27/2019 00:37	J
Dieldrin	**0.0044**	**U**	**ug/L**	**1**	0.080	0.0044	11/27/2019 00:37	J
Endosulfan I	**0.012**	**U**	**ug/L**	**1**	0.080	0.012	11/27/2019 00:37	J
Endosulfan II	**0.011**	**U**	**ug/L**	**1**	0.080	0.011	11/27/2019 00:37	J
Endosulfan Sulfate	**0.013**	**U**	**ug/L**	**1**	0.080	0.013	11/27/2019 00:37	J
Endrin	**0.0067**	**U**	**ug/L**	**1**	0.080	0.0067	11/27/2019 00:37	J
Endrin Aldehyde	**0.010**	**U**	**ug/L**	**1**	0.080	0.010	11/27/2019 00:37	J
Heptachlor	**0.014**	**U**	**ug/L**	**1**	0.080	0.014	11/27/2019 00:37	J
Heptachlor Epoxide	**0.0066**	**U**	**ug/L**	**1**	0.080	0.0066	11/27/2019 00:37	J
Methoxychlor	**0.023**	**U**	**ug/L**	**1**	0.080	0.023	11/27/2019 00:37	J
Toxaphene	**0.48**	**U**	**ug/L**	**1**	0.80	0.48	11/27/2019 00:37	J
alpha-BHC	**0.012**	**U**	**ug/L**	**1**	0.080	0.012	11/27/2019 00:37	J
beta-BHC	**0.0075**	**U**	**ug/L**	**1**	0.080	0.0075	11/27/2019 00:37	J
delta-BHC	**0.0034**	**U**	**ug/L**	**1**	0.080	0.0034	11/27/2019 00:37	J
gamma-BHC (Lindane)	**0.0074**	**U**	**ug/L**	**1**	0.080	0.0074	11/27/2019 00:37	J
Tetrachloro-m-xylene (S)	**8**	**J4**	**%**	**1**	44-124		11/27/2019 00:37	
Decachlorobiphenyl (S)	**9**	**J4**	**%**	**1**	48-137		11/27/2019 00:37	
Analysis Desc: 8141A Org Phos Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8141							
Atrazine	**0.28**	**U**	**ug/L**	**1**	0.80	0.28	11/26/2019 21:22	J
Azinphos-methyl	**0.23**	**U**	**ug/L**	**1**	0.80	0.23	11/26/2019 21:22	J
Chlorpyrifos	**0.16**	**U**	**ug/L**	**1**	0.80	0.16	11/26/2019 21:22	J
Chlorpyrifos-methyl	**0.24**	**U**	**ug/L**	**1**	0.80	0.24	11/26/2019 21:22	J
Demeton	**0.24**	**U**	**ug/L**	**1**	0.80	0.24	11/26/2019 21:22	J
Diazinon	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 21:22	J
Dimethoate	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 21:22	J
Disulfoton	**0.16**	**U**	**ug/L**	**1**	0.80	0.16	11/26/2019 21:22	J
Ethion	**0.27**	**U**	**ug/L**	**1**	0.80	0.27	11/26/2019 21:22	J
Ethoprop	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 21:22	J
Famphur	**0.44**	**U**	**ug/L**	**1**	0.80	0.44	11/26/2019 21:22	J
Fensulfothion	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 21:22	J
Fonophos	**0.20**	**U**	**ug/L**	**1**	0.80	0.20	11/26/2019 21:22	J
Malathion	**0.29**	**U**	**ug/L**	**1**	0.80	0.29	11/26/2019 21:22	J
Merphos	**0.23**	**U**	**ug/L**	**1**	0.80	0.23	11/26/2019 21:22	J
Methyl Parathion	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 21:22	J
Mevinphos	**0.22**	**U**	**ug/L**	**1**	0.80	0.22	11/26/2019 21:22	J

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Parathion (Ethyl)	**0.26**	**U**	**ug/L**	**1**	0.80	0.26	11/26/2019 21:22	J
Phorate	**0.17**	**U**	**ug/L**	**1**	0.80	0.17	11/26/2019 21:22	J
Phosmet	**0.31**	**U**	**ug/L**	**1**	0.80	0.31	11/26/2019 21:22	J
Ronnel	**0.19**	**U**	**ug/L**	**1**	0.80	0.19	11/26/2019 21:22	J
Simazine	**0.29**	**U**	**ug/L**	**1**	0.80	0.29	11/26/2019 21:22	J
Tributylphosphate (S)	**17**	**J4**	**%**	**1**	48.5-121		11/26/2019 21:22	J
Analysis Desc: 8151A Herbicides Analysis, Water	Preparation Method: 8151 Analytical Method: EPA 8151							
2,4,5-T	**3.3**	**U**	**ug/L**	**10**	20	3.3	12/4/2019 21:56	J
2,4-D	**13**	**U**	**ug/L**	**10**	60	13	12/4/2019 21:56	J
2,4-DB	**17**	**U**	**ug/L**	**10**	60	17	12/4/2019 21:56	J
Dalapon	**76**	**U**	**ug/L**	**10**	200	76	12/4/2019 21:56	J
Dicamba	**7.5**	**U**	**ug/L**	**10**	20	7.5	12/4/2019 21:56	J
Dichloroprop	**8.7**	**U**	**ug/L**	**10**	60	8.7	12/4/2019 21:56	J
Dinoseb	**5.1**	**U**	**ug/L**	**10**	200	5.1	12/4/2019 21:56	J
Pentachlorophenol	**2.9**	**U**	**ug/L**	**10**	10	2.9	12/4/2019 21:56	J
Silvex (2,4,5-TP)	**3.0**	**U**	**ug/L**	**10**	20	3.0	12/4/2019 21:56	J
2,4-Dichlorophenylacetic acid (S)	**0**	**2**	**%**	**10**	41-122		12/4/2019 21:56	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0061**	**U**	**ug/L**	**1**	0.020	0.0061	12/5/2019 18:20	J
Ethylene Dibromide (EDB)	**0.0063**	**U**	**ug/L**	**1**	0.020	0.0063	12/5/2019 18:20	J
Tetrachloro-m-xylene (S)	**77**		**%**	**1**	64-150		12/5/2019 18:20	
Analysis Desc: 8082A PCB Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8082A							
Aroclor 1016 (PCB-1016)	**0.26**	**U**	**ug/L**	**1**	0.80	0.26	11/27/2019 00:37	J
Aroclor 1221 (PCB-1221)	**0.44**	**U**	**ug/L**	**1**	0.80	0.44	11/27/2019 00:37	J
Aroclor 1232 (PCB-1232)	**0.39**	**U**	**ug/L**	**1**	0.80	0.39	11/27/2019 00:37	J
Aroclor 1242 (PCB-1242)	**0.38**	**U**	**ug/L**	**1**	0.80	0.38	11/27/2019 00:37	J
Aroclor 1248 (PCB-1248)	**0.27**	**U**	**ug/L**	**1**	0.80	0.27	11/27/2019 00:37	J
Aroclor 1254 (PCB-1254)	**0.20**	**U**	**ug/L**	**1**	0.80	0.20	11/27/2019 00:37	J
Aroclor 1260 (PCB-1260)	**0.32**	**U**	**ug/L**	**1**	0.80	0.32	11/27/2019 00:37	J
Tetrachloro-m-xylene (S)	**8**	**J4**	**%**	**1**	61-119		11/27/2019 00:37	
Decachlorobiphenyl (S)	**9**	**J4**	**%**	**1**	44-136		11/27/2019 00:37	

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8270C Analysis, Water	Preparation Method: SW-846 3510C							
	Analytical Method: SW-846 8270C							
1,2,4,5-Tetrachlorobenzene	**30**	**U**	**ug/L**	**5**	110	30	12/2/2019 06:48	J
1,2,4-Trichlorobenzene	**15**	**U**	**ug/L**	**5**	110	15	12/2/2019 06:48	J
1,2-Dichlorobenzene	**31**	**U**	**ug/L**	**5**	110	31	12/2/2019 06:48	J
1,2-Diphenylhydrazine	**21**	**U**	**ug/L**	**5**	110	21	12/2/2019 06:48	J
1,3,5-Trinitrobenzene	**54**	**U**	**ug/L**	**5**	110	54	12/2/2019 06:48	J
1,3-Dichlorobenzene	**23**	**U**	**ug/L**	**5**	110	23	12/2/2019 06:48	J
1,3-Dinitrobenzene	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
1,4-Dichlorobenzene	**44**	**U**	**ug/L**	**5**	110	44	12/2/2019 06:48	J
1,4-Naphthoquinone	**110**	**U**	**ug/L**	**5**	110	110	12/2/2019 06:48	J
1,4-Phenylenediamine	**110**	**U**	**ug/L**	**5**	1800	110	12/2/2019 06:48	J
1-Methylnaphthalene	**1.1**	**U**	**ug/L**	**5**	4.4	1.1	12/2/2019 06:48	J
1-Naphthylamine	**21**	**U**	**ug/L**	**5**	110	21	12/2/2019 06:48	J
2,3,4,6-Tetrachlorophenol	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
2,4,5-Trichlorophenol	**29**	**U**	**ug/L**	**5**	110	29	12/2/2019 06:48	J
2,4,6-Trichlorophenol	**31**	**U**	**ug/L**	**5**	110	31	12/2/2019 06:48	J
2,4-Dichlorophenol	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
2,4-Dimethylphenol	**57**	**U**	**ug/L**	**5**	110	57	12/2/2019 06:48	J
2,4-Dinitrophenol	**24**	**U**	**ug/L**	**5**	220	24	12/2/2019 06:48	J
2,4-Dinitrotoluene (2,4-DNT)	**40**	**U**	**ug/L**	**5**	110	40	12/2/2019 06:48	J
2,6-Dichlorophenol	**29**	**U**	**ug/L**	**5**	110	29	12/2/2019 06:48	J
2,6-Dinitrotoluene (2,6-DNT)	**43**	**U**	**ug/L**	**5**	110	43	12/2/2019 06:48	J
2-Acetylaminofluorene	**78**	**U**	**ug/L**	**5**	110	78	12/2/2019 06:48	J
2-Chloronaphthalene	**37**	**U**	**ug/L**	**5**	110	37	12/2/2019 06:48	J
2-Chlorophenol	**33**	**U**	**ug/L**	**5**	110	33	12/2/2019 06:48	J
2-Methyl-4,6-dinitrophenol	**25**	**U**	**ug/L**	**5**	110	25	12/2/2019 06:48	J
2-Methylnaphthalene	**1.1**	**U**	**ug/L**	**5**	4.4	1.1	12/2/2019 06:48	J
2-Methylphenol (o-Cresol)	**32**	**U**	**ug/L**	**5**	110	32	12/2/2019 06:48	J
2-Naphthylamine	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
2-Nitroaniline	**34**	**U**	**ug/L**	**5**	110	34	12/2/2019 06:48	J
2-Nitrophenol	**14**	**U**	**ug/L**	**5**	110	14	12/2/2019 06:48	J
2-Picoline (2-Methylpyridine)	**26**	**U**	**ug/L**	**5**	110	26	12/2/2019 06:48	J
3+4-Methylphenol(mp-Cresol)	**3500**		**ug/L**	**50**	1100	220	12/3/2019 03:19	J
3,3'-Dimethylbenzidine	**52**	**U**	**ug/L**	**5**	110	52	12/2/2019 06:48	J
3,3`-Dichlorobenzidine	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
3-Methylcholanthrene	**41**	**U**	**ug/L**	**5**	110	41	12/2/2019 06:48	J
3-Nitroaniline	**24**	**U**	**ug/L**	**5**	110	24	12/2/2019 06:48	J
4-Aminobiphenyl	**13**	**U**	**ug/L**	**5**	110	13	12/2/2019 06:48	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Bromophenyl Phenyl Ether	**25**	**U**	**ug/L**	**5**	110	25	12/2/2019 06:48	J
4-Chloro-3-methylphenol	**14**	**U**	**ug/L**	**5**	110	14	12/2/2019 06:48	J
4-Chloroaniline	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
4-Chlorophenyl Phenyl Ether	**36**	**U**	**ug/L**	**5**	110	36	12/2/2019 06:48	J
4-Dimethyl aminoazobenzene	**16**	**U**	**ug/L**	**5**	110	16	12/2/2019 06:48	J
4-Nitroaniline	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
4-Nitrophenol	**63**	**U**	**ug/L**	**5**	110	63	12/2/2019 06:48	J
5-Nitro-o-toluidine	**63**	**U**	**ug/L**	**5**	110	63	12/2/2019 06:48	J
7,12-Dimethylbenz[a]anthracene	**23**	**U**	**ug/L**	**5**	110	23	12/2/2019 06:48	J
Acenaphthene	**0.88**	**U**	**ug/L**	**5**	4.4	0.88	12/2/2019 06:48	J
Acenaphthylene	**0.92**	**U**	**ug/L**	**5**	4.4	0.92	12/2/2019 06:48	J
Acetophenone	**64**	**I**	**ug/L**	**5**	110	35	12/2/2019 06:48	J
Aniline	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
Anthracene	**0.78**	**U**	**ug/L**	**5**	4.4	0.78	12/2/2019 06:48	J
Benzidine	**26**	**U**	**ug/L**	**5**	110	26	12/2/2019 06:48	J
Benzo[a]anthracene	**0.27**	**U**	**ug/L**	**5**	4.4	0.27	12/2/2019 06:48	J
Benzo[a]pyrene	**0.81**	**U**	**ug/L**	**5**	4.4	0.81	12/2/2019 06:48	J
Benzo[b]fluoranthene	**0.27**	**U**	**ug/L**	**5**	2.2	0.27	12/2/2019 06:48	J
Benzo[g,h,i]perylene	**1.0**	**U**	**ug/L**	**5**	4.4	1.0	12/2/2019 06:48	J
Benzo[k]fluoranthene	**1.1**	**U**	**ug/L**	**5**	4.4	1.1	12/2/2019 06:48	J
Benzoic Acid	**7800**		**ug/L**	**50**	2200	170	12/3/2019 03:19	J
Benzyl Alcohol	**52**	**U**	**ug/L**	**5**	110	52	12/2/2019 06:48	J
Butyl benzyl phthalate	**24**	**U**	**ug/L**	**5**	110	24	12/2/2019 06:48	J
Chlorobenzilate	**44**	**U**	**ug/L**	**5**	110	44	12/2/2019 06:48	J
Chrysene	**0.73**	**U**	**ug/L**	**5**	4.4	0.73	12/2/2019 06:48	J
Di-n-Butyl Phthalate	**19**	**U**	**ug/L**	**5**	110	19	12/2/2019 06:48	J
Di-n-octyl Phthalate	**27**	**U**	**ug/L**	**5**	110	27	12/2/2019 06:48	J
Diallate	**25**	**U**	**ug/L**	**5**	110	25	12/2/2019 06:48	J
Dibenzo[a,h]anthracene	**0.52**	**U**	**ug/L**	**5**	4.4	0.52	12/2/2019 06:48	J
Dibenzofuran	**1.5**	**U**	**ug/L**	**5**	110	1.5	12/2/2019 06:48	J
Diethyl phthalate	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
Dimethoate	**26**	**U**	**ug/L**	**5**	110	26	12/2/2019 06:48	J
Dimethyl phthalate	**39**	**U**	**ug/L**	**5**	220	39	12/2/2019 06:48	J
Dinoseb	**51**	**U**	**ug/L**	**5**	110	51	12/2/2019 06:48	J
Diphenylamine	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
Disulfoton	**48**	**U**	**ug/L**	**5**	110	48	12/2/2019 06:48	J
Ethyl methanesulfonate	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
Famphur	**44**	**U**	**ug/L**	**5**	110	44	12/2/2019 06:48	J
Fluoranthene	**0.81**	**U**	**ug/L**	**5**	4.4	0.81	12/2/2019 06:48	J
Fluorene	**0.85**	**U**	**ug/L**	**5**	4.4	0.85	12/2/2019 06:48	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Hexachlorobenzene	**22**	**U**	**ug/L**	**5**	110	22	12/2/2019 06:48	J
Hexachlorobutadiene	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
Hexachlorocyclopentadiene	**23**	**U**	**ug/L**	**5**	110	23	12/2/2019 06:48	J
Hexachloroethane	**27**	**U**	**ug/L**	**5**	110	27	12/2/2019 06:48	J
Hexachloropropene	**59**	**U**	**ug/L**	**5**	110	59	12/2/2019 06:48	J
Indeno(1,2,3-cd)pyrene	**0.25**	**U**	**ug/L**	**5**	4.4	0.25	12/2/2019 06:48	J
Isodrin	**68**	**U**	**ug/L**	**5**	110	68	12/2/2019 06:48	J
Isophorone	**25**	**U**	**ug/L**	**5**	110	25	12/2/2019 06:48	J
Isosafrole	**69**	**U**	**ug/L**	**5**	110	69	12/2/2019 06:48	J
Kepone	**110**	**U**	**ug/L**	**5**	1800	110	12/2/2019 06:48	J
Methapyrilene	**41**	**U**	**ug/L**	**5**	110	41	12/2/2019 06:48	J
Methyl Methanesulfonate	**15**	**U**	**ug/L**	**5**	110	15	12/2/2019 06:48	J
Methyl Parathion	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
N-Nitrosodi-n-butylamine	**32**	**U**	**ug/L**	**5**	110	32	12/2/2019 06:48	J
N-Nitrosodi-n-propylamine	**50**	**U**	**ug/L**	**5**	110	50	12/2/2019 06:48	J
N-Nitrosodiethylamine	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
N-Nitrosodimethylamine	**20**	**U**	**ug/L**	**5**	110	20	12/2/2019 06:48	J
N-Nitrosodiphenylamine	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
N-Nitrosomethylethylamine	**60**	**U**	**ug/L**	**5**	110	60	12/2/2019 06:48	J
N-Nitrosopiperidine	**28**	**U**	**ug/L**	**5**	110	28	12/2/2019 06:48	J
N-Nitrosopyrrolidine	**46**	**U**	**ug/L**	**5**	110	46	12/2/2019 06:48	J
Naphthalene	**1.0**	**U**	**ug/L**	**5**	4.4	1.0	12/2/2019 06:48	J
Nitrobenzene	**25**	**U**	**ug/L**	**5**	110	25	12/2/2019 06:48	J
Nitroquinoline-1-oxide	**44**	**U**	**ug/L**	**5**	110	44	12/2/2019 06:48	J
Pentachlorobenzene	**30**	**U**	**ug/L**	**5**	110	30	12/2/2019 06:48	J
Pentachloronitrobenzene	**38**	**U**	**ug/L**	**5**	110	38	12/2/2019 06:48	J
Pentachlorophenol	**21**	**U**	**ug/L**	**5**	110	21	12/2/2019 06:48	J
Phenacetin	**69**	**U**	**ug/L**	**5**	110	69	12/2/2019 06:48	J
Phenanthrene	**4.3**	**I**	**ug/L**	**5**	4.4	0.87	12/2/2019 06:48	J
Phenol	**1500**		**ug/L**	**5**	110	12	12/2/2019 06:48	J
Phorate	**26**	**U**	**ug/L**	**5**	110	26	12/2/2019 06:48	J
Pronamide (Kerb)	**80**	**U**	**ug/L**	**5**	110	80	12/2/2019 06:48	J
Pyrene	**0.79**	**U**	**ug/L**	**5**	4.4	0.79	12/2/2019 06:48	J
Safrole	**77**	**U**	**ug/L**	**5**	110	77	12/2/2019 06:48	J
Thionazin (Zinophos)	**26**	**U**	**ug/L**	**5**	110	26	12/2/2019 06:48	J
a,a-Dimethylphenethylamine	**41**	**U**	**ug/L**	**5**	110	41	12/2/2019 06:48	J
bis(2-Chloroethoxy)methane	**27**	**U**	**ug/L**	**5**	110	27	12/2/2019 06:48	J
bis(2-Chloroethyl)Ether	**32**	**U**	**ug/L**	**5**	110	32	12/2/2019 06:48	J
bis(2-Chloroisopropyl) Ether	**31**	**U**	**ug/L**	**5**	110	31	12/2/2019 06:48	J
bis(2-Ethylhexyl) phthalate	**44**	**U**	**ug/L**	**5**	110	44	12/2/2019 06:48	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
o,o,o-Triethylphosphorothioate	**65**	**U**	**ug/L**	**5**	110	65	12/2/2019 06:48	J
o-Toluidine	**54**	**U**	**ug/L**	**5**	110	54	12/2/2019 06:48	J
2-Fluorophenol (S)	**0**	**1**	**%**	**5**	31-134		12/2/2019 06:48	
Phenol-d6 (S)	**0**	**1**	**%**	**5**	24-120		12/2/2019 06:48	
Nitrobenzene-d5 (S)	**0**	**1**	**%**	**5**	38-139		12/2/2019 06:48	
2-Fluorobiphenyl (S)	**0**	**1**	**%**	**5**	42-138		12/2/2019 06:48	
2,4,6-Tribromophenol (S)	**0**	**1**	**%**	**5**	48-147		12/2/2019 06:48	
p-Terphenyl-d14 (S)	**0**	**1**	**%**	**5**	61-154		12/2/2019 06:48	

VOLATILES

Analysis Desc: 8260B VOCs Analysis, Water
Preparation Method: SW-846 5030B
Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane	**54**	**U**	**ug/L**	**100**	100	54	12/5/2019 00:05	J
1,1,1-Trichloroethane	**22**	**U**	**ug/L**	**100**	100	22	12/5/2019 00:05	J
1,1,2,2-Tetrachloroethane	**20**	**U**	**ug/L**	**100**	100	20	12/5/2019 00:05	J
1,1,2-Trichloroethane	**30**	**U**	**ug/L**	**100**	100	30	12/5/2019 00:05	J
1,1-Dichloroethane	**14**	**U**	**ug/L**	**100**	100	14	12/5/2019 00:05	J
1,1-Dichloroethylene	**18**	**U**	**ug/L**	**100**	100	18	12/5/2019 00:05	J
1,1-Dichloropropene	**24**	**U**	**ug/L**	**100**	100	24	12/5/2019 00:05	J
1,2,3-Trichloropropane	**91**	**U**	**ug/L**	**100**	100	91	12/5/2019 00:05	J
1,2-Dibromo-3-Chloropropane	**310**	**U**	**ug/L**	**100**	500	310	12/5/2019 00:05	J
1,2-Dichlorobenzene	**18**	**U**	**ug/L**	**100**	100	18	12/5/2019 00:05	J
1,2-Dichloroethane	**23**	**U**	**ug/L**	**100**	100	23	12/5/2019 00:05	J
1,2-Dichloropropane	**66**	**U**	**ug/L**	**100**	100	66	12/5/2019 00:05	J
1,3-Dichlorobenzene	**19**	**U**	**ug/L**	**100**	100	19	12/5/2019 00:05	J
1,3-Dichloropropane	**24**	**U**	**ug/L**	**100**	100	24	12/5/2019 00:05	J
1,4-Dichlorobenzene	**22**	**U**	**ug/L**	**100**	100	22	12/5/2019 00:05	J
2,2-Dichloropropane	**22**	**U**	**ug/L**	**100**	100	22	12/5/2019 00:05	J
2-Butanone (MEK)	**9200**		**ug/L**	**100**	500	43	12/5/2019 00:05	J
2-Hexanone	**71**	**U**	**ug/L**	**100**	500	71	12/5/2019 00:05	J
4-Methyl-2-pentanone (MIBK)	**180**		**ug/L**	**100**	100	47	12/5/2019 00:05	J
Acetone	**13000**		**ug/L**	**100**	500	210	12/5/2019 00:05	J
Acetonitrile	**2100**	**U**	**ug/L**	**100**	5000	2100	12/5/2019 00:05	J
Acrolein (Propenal)	**160**	**U**	**ug/L**	**100**	1000	160	12/5/2019 00:05	J
Acrylonitrile	**110**	**U**	**ug/L**	**100**	1000	110	12/5/2019 00:05	J
Allyl Chloride(3-Chloropropene	**210**	**U**	**ug/L**	**100**	1000	210	12/5/2019 00:05	J
Benzene	**16**	**U**	**ug/L**	**100**	100	16	12/5/2019 00:05	J
Bromochloromethane	**17**	**U**	**ug/L**	**100**	100	17	12/5/2019 00:05	J
Bromodichloromethane	**46**	**U**	**ug/L**	**100**	100	46	12/5/2019 00:05	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromoform	**44**	**U**	**ug/L**	**100**	100	44	12/5/2019 00:05	J
Bromomethane	**29**	**U**	**ug/L**	**100**	100	29	12/5/2019 00:05	J
Carbon Disulfide	**67**	**U**	**ug/L**	**100**	100	67	12/5/2019 00:05	J
Carbon Tetrachloride	**36**	**U**	**ug/L**	**100**	100	36	12/5/2019 00:05	J
Chlorobenzene	**21**	**U**	**ug/L**	**100**	100	21	12/5/2019 00:05	J
Chloroethane	**33**	**U**	**ug/L**	**100**	100	33	12/5/2019 00:05	J
Chloroform	**18**	**U**	**ug/L**	**100**	100	18	12/5/2019 00:05	J
Chloromethane	**21**	**U**	**ug/L**	**100**	100	21	12/5/2019 00:05	J
Chloroprene	**200**	**U**	**ug/L**	**100**	500	200	12/5/2019 00:05	J
Dibromochloromethane	**33**	**U**	**ug/L**	**100**	100	33	12/5/2019 00:05	J
Dibromomethane	**26**	**U**	**ug/L**	**100**	100	26	12/5/2019 00:05	J
Dichlorodifluoromethane	**19**	**U**	**ug/L**	**100**	100	19	12/5/2019 00:05	J
Ethyl Methacrylate	**210**	**U**	**ug/L**	**100**	1000	210	12/5/2019 00:05	J
Ethylbenzene	**24**	**U**	**ug/L**	**100**	100	24	12/5/2019 00:05	J
Ethylene Dibromide (EDB)	**20**	**U**	**ug/L**	**100**	100	20	12/5/2019 00:05	J
Iodomethane (Methyl Iodide)	**16**	**U**	**ug/L**	**100**	100	16	12/5/2019 00:05	J
Isobutyl Alcohol	**4400**	**U**	**ug/L**	**100**	20000	4400	12/5/2019 00:05	J
Methacrylonitrile	**1800**	**U**	**ug/L**	**100**	10000	1800	12/5/2019 00:05	J
Methyl Methacrylate	**180**	**U**	**ug/L**	**100**	500	180	12/5/2019 00:05	J
Methylene Chloride	**250**	**U**	**ug/L**	**100**	500	250	12/5/2019 00:05	J
Propionitrile (Ethyl cyanide)	**2100**	**U**	**ug/L**	**100**	10000	2100	12/5/2019 00:05	J
Styrene	**23**	**U**	**ug/L**	**100**	100	23	12/5/2019 00:05	J
Tetrachloroethylene (PCE)	**36**	**U**	**ug/L**	**100**	100	36	12/5/2019 00:05	J
Toluene	**23**	**U**	**ug/L**	**100**	100	23	12/5/2019 00:05	J
Trichloroethene	**29**	**U**	**ug/L**	**100**	100	29	12/5/2019 00:05	J
Trichlorofluoromethane	**32**	**U**	**ug/L**	**100**	100	32	12/5/2019 00:05	J
Vinyl Acetate	**19**	**U**	**ug/L**	**100**	100	19	12/5/2019 00:05	J
Vinyl Chloride	**20**	**U**	**ug/L**	**100**	100	20	12/5/2019 00:05	J
Xylene (Total)	**53**	**U**	**ug/L**	**100**	200	53	12/5/2019 00:05	J
cis-1,2-Dichloroethylene	**24**	**U**	**ug/L**	**100**	100	24	12/5/2019 00:05	J
cis-1,3-Dichloropropene	**16**	**U**	**ug/L**	**100**	100	16	12/5/2019 00:05	J
trans-1,2-Dichloroethylene	**20**	**U**	**ug/L**	**100**	100	20	12/5/2019 00:05	J
trans-1,3-Dichloropropylene	**21**	**U**	**ug/L**	**100**	100	21	12/5/2019 00:05	J
trans-1,4-Dichloro-2-butene	**180**	**U**	**ug/L**	**100**	1000	180	12/5/2019 00:05	J
1,2-Dichloroethane-d4 (S)	**81**		**%**	**100**	70-128		12/5/2019 00:05	
Toluene-d8 (S)	**81**		**%**	**100**	77-119		12/5/2019 00:05	
Bromofluorobenzene (S)	**104**		**%**	**100**	86-123		12/5/2019 00:05	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water Analytical Method: EPA 300.0

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060002** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **19326-TL** Date Collected: 11/21/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromide	**37**		**mg/L**	**25**	2.5	2.2	12/4/2019 11:14	T
Chloride	**4400**		**mg/L**	**25**	120	25	12/4/2019 11:14	T
Fluoride	**2.5**	**U**	**mg/L**	**25**	12	2.5	12/4/2019 11:14	T
Sulfate	**25**	**U**	**mg/L**	**25**	120	25	12/4/2019 11:14	T
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7400**		**mg/L**	**2000**	200	40	11/25/2019 12:05	T
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**23000**		**mg/L**	**20**	1000	470	11/25/2019 12:00	T
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**170**		**mg/L**	**1**	20	5.0	12/3/2019 13:07	T
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	20	5.0	12/3/2019 13:07	T
Alkalinity, Total	**170**		**mg/L**	**1**	20	5.0	12/3/2019 13:07	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**18000**		**mg/L**	**5**	50	50	11/25/2019 15:00	T
Analysis Desc: Cyanide, SM4500-E, Water	Analytical Method: SM 4500-CN-E							
Cyanide	**0.024**	**U**	**mg/L**	**5**	0.050	0.024	11/25/2019 14:07	T
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Sulfide	**36**		**mg/L**	**50**	2.5	0.41	11/26/2019 09:35	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Analytical Method: SM 4500NO3-F							
Nitrate (as N)	**7.9**	**U**	**mg/L**	**100**	10	7.9	11/22/2019 15:56	T
Nitrite (as N)	**7.7**	**U**	**mg/L**	**100**	10	7.7	11/22/2019 15:56	T
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**3700**		**mg/L**	**10**	20	20	11/22/2019 17:43	T

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060003** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **Trip Blank** Date Collected: 11/22/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	12/5/2019 01:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/5/2019 01:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/5/2019 01:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	12/5/2019 01:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	12/5/2019 01:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/5/2019 01:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	12/5/2019 01:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/5/2019 01:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/5/2019 01:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	12/5/2019 01:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	12/5/2019 01:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	12/5/2019 01:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	12/5/2019 01:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	12/5/2019 01:04	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	12/5/2019 01:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	12/5/2019 01:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/5/2019 01:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	12/5/2019 01:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	12/5/2019 01:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	12/5/2019 01:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/5/2019 01:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	12/5/2019 01:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/5/2019 01:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/5/2019 01:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/5/2019 01:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	12/5/2019 01:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/5/2019 01:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	12/5/2019 01:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	12/5/2019 01:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/5/2019 01:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/5/2019 01:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	12/5/2019 01:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/5/2019 01:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	12/5/2019 01:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	12/5/2019 01:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	12/5/2019 01:04	J

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ANALYTICAL RESULTS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **T1921060003** Date Received: 11/22/19 12:00 Matrix: Water

Sample ID: **Trip Blank** Date Collected: 11/22/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	12/5/2019 01:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	12/5/2019 01:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/5/2019 01:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	12/5/2019 01:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	12/5/2019 01:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	12/5/2019 01:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	12/5/2019 01:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	12/5/2019 01:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	12/5/2019 01:04	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	70-128		12/5/2019 01:04	
Toluene-d8 (S)	**80**		**%**	**1**	77-119		12/5/2019 01:04	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		12/5/2019 01:04	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	12/5/2019 01:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	12/5/2019 01:04	J
1,2-Dichloroethane-d4 (S)	**78**		**%**	**1**	77-125		12/5/2019 01:04	
Toluene-d8 (S)	**81**		**%**	**1**	80-121		12/5/2019 01:04	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		12/5/2019 01:04	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
[1]	Surrogate diluted out.
[2]	Surrogate diluted out.
J4	Estimated Result

LAB QUALIFIERS

J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAt/15015 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3299450

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate (as N)	mg/L	0.079	0.079	U
Nitrite (as N)	mg/L	0.077	0.077	U

LABORATORY CONTROL SAMPLE: 3299451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Nitrate (as N)	mg/L	1	1.0	103	90-110	
Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3299452 3299453 Original: T1921036002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Nitrate (as N)	mg/L	0.004	1	0.98	1.0	98	100	90-110	3	10	
Nitrite (as N)	mg/L	0.007	1	1.1	1.1	108	107	90-110	1	10	

QC Batch: WCAt/15024 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Prepared:
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3300510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Biochemical Oxygen Demand	mg/L	2.0	2.0	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3300511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Biochemical Oxygen Demand	mg/L	200	200	99	84.6-115.4	

SAMPLE DUPLICATE: 3300512 Original: T1921092001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Biochemical Oxygen Demand	mg/L	1900	2000	0	20	

QC Batch: WCAt/15027 Analysis Method: SM 4500-CN-E

QC Batch Method: SM 4500-CN-E Prepared:

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3300527

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Cyanide	mg/L	0.0048	0.0048	U

LABORATORY CONTROL SAMPLE: 3300528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Cyanide	mg/L	0.04	0.037	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301316 3301317 Original: J1915375004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Cyanide	mg/L	-0.0035	0.04	0.026	0.026	65	65	90-110	1	10	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAt/15032 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3300577

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.020	0.020	U

LABORATORY CONTROL SAMPLE: 3300578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.55	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300579 3300580 Original: T1920648002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.01	1	1.0	1.0	105	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300581 3300582 Original: T1920843004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	-0.04	1	1.1	1.1	108	106	90-110	3	10	

QC Batch: WCAt/15034 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: T1921060001, T1921060002

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3300625

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3300626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	660	99	85-115	

SAMPLE DUPLICATE: 3300627 Original: T1920963001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	190	190	0	10	

QC Batch: DGMj/4314 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/26/2019 03:30

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3301179

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3301180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	45	90	80-120	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3301180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Thallium	ug/L	50	46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3301181 3301182 Original: T1920891001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.15	50	45	45	90	89	75-125	0	20	
Thallium	ug/L	0.044	50	43	46	87	92	75-125	6	20	

QC Batch: EXTj/4440 Analysis Method: SW-846 8270C
QC Batch Method: SW-846 3510C Prepared: 11/25/2019 15:00
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Phenol	ug/L	0.54	0.54	U
2-Chlorophenol	ug/L	1.5	1.5	U
2-Methylphenol (o-Cresol)	ug/L	1.5	1.5	U
3+4-Methylphenol(mp-Cresol)	ug/L	1.0	1.0	U
2-Nitrophenol	ug/L	0.63	0.63	U
2,4-Dimethylphenol	ug/L	2.6	2.6	U
Benzoic Acid	ug/L	0.78	0.78	U
2,4-Dichlorophenol	ug/L	0.90	0.90	U
2,6-Dichlorophenol	ug/L	1.3	1.3	U
4-Chloro-3-methylphenol	ug/L	0.63	0.63	U
2,4,6-Trichlorophenol	ug/L	1.4	1.4	U
2,4,5-Trichlorophenol	ug/L	1.3	1.3	U
2,4-Dinitrophenol	ug/L	1.1	1.1	U
4-Nitrophenol	ug/L	2.9	2.9	U
2,3,4,6-Tetrachlorophenol	ug/L	1.3	1.3	U
2-Methyl-4,6-dinitrophenol	ug/L	1.2	1.2	U
Pentachlorophenol	ug/L	0.95	0.95	U
N-Nitrosodimethylamine	ug/L	0.93	0.93	U
2-Picoline (2-Methylpyridine)	ug/L	1.2	1.2	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Methanesulfonate	ug/L	0.67	0.67	U
Ethyl methanesulfonate	ug/L	0.91	0.91	U
Aniline	ug/L	0.90	0.90	U
bis(2-Chloroethyl)Ether	ug/L	1.5	1.5	U
1,3-Dichlorobenzene	ug/L	1.0	1.0	U
1,4-Dichlorobenzene	ug/L	2.0	2.0	U
1,2-Dichlorobenzene	ug/L	1.4	1.4	U
Benzyl Alcohol	ug/L	2.4	2.4	U
bis(2-Chloroisopropyl) Ether	ug/L	1.4	1.4	U
Acetophenone	ug/L	1.6	1.6	U
N-Nitrosodi-n-propylamine	ug/L	2.2	2.2	U
Hexachloroethane	ug/L	1.2	1.2	U
Nitrobenzene	ug/L	1.1	1.1	U
N-Nitrosopiperidine	ug/L	1.3	1.3	U
Isophorone	ug/L	1.1	1.1	U
bis(2-Chloroethoxy)methane	ug/L	1.2	1.2	U
1,2,4-Trichlorobenzene	ug/L	0.69	0.69	U
Naphthalene	ug/L	0.048	0.048	U
a,a-Dimethylphenethylamine	ug/L	1.9	1.9	U
4-Chloroaniline	ug/L	0.90	0.90	U
Hexachlorobutadiene	ug/L	1.3	1.3	U
N-Nitrosodi-n-butylamine	ug/L	1.5	1.5	U
2-Methylnaphthalene	ug/L	0.049	0.049	U
1-Methylnaphthalene	ug/L	0.050	0.050	U
Hexachlorocyclopentadiene	ug/L	1.0	1.0	U
1,2,4,5-Tetrachlorobenzene	ug/L	1.3	1.3	U
2-Chloronaphthalene	ug/L	1.7	1.7	U
2-Nitroaniline	ug/L	1.5	1.5	U
Dimethyl phthalate	ug/L	1.8	1.8	U
2,6-Dinitrotoluene (2,6-DNT)	ug/L	2.0	2.0	U
Acenaphthylene	ug/L	0.042	0.042	U
3-Nitroaniline	ug/L	1.1	1.1	U
Acenaphthene	ug/L	0.040	0.040	U
Pentachlorobenzene	ug/L	1.3	1.3	U
Dibenzofuran	ug/L	0.069	0.069	U
2,4-Dinitrotoluene (2,4-DNT)	ug/L	1.8	1.8	U
1-Naphthylamine	ug/L	0.95	0.95	U
2-Naphthylamine	ug/L	0.89	0.89	U
Diethyl phthalate	ug/L	2.1	2.1	U
Fluorene	ug/L	0.038	0.038	U
4-Chlorophenyl Phenyl Ether	ug/L	1.6	1.6	U
4-Nitroaniline	ug/L	1.3	1.3	U
Diphenylamine	ug/L	2.1	2.1	U
1,2-Diphenylhydrazine	ug/L	0.96	0.96	U
Phenacetin	ug/L	3.2	3.2	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
4-Bromophenyl Phenyl Ether	ug/L	1.1	1.1	U
Hexachlorobenzene	ug/L	0.99	0.99	U
Pentachloronitrobenzene	ug/L	1.7	1.7	U
4-Aminobiphenyl	ug/L	0.61	0.61	U
Pronamide (Kerb)	ug/L	3.6	3.6	U
Phenanthrene	ug/L	0.040	0.040	U
Anthracene	ug/L	0.035	0.035	U
Di-n-Butyl Phthalate	ug/L	0.88	0.88	U
Fluoranthene	ug/L	0.037	0.037	U
Benzidine	ug/L	1.2	1.2	U
Pyrene	ug/L	0.036	0.036	U
4-Dimethyl aminoazobenzene	ug/L	0.73	0.73	U
Butyl benzyl phthalate	ug/L	1.1	1.1	U
Benzo[a]anthracene	ug/L	0.012	0.012	U
3,3`-Dichlorobenzidine	ug/L	1.3	1.3	U
Chrysene	ug/L	0.033	0.033	U
bis(2-Ethylhexyl) phthalate	ug/L	2.0	2.0	U
Di-n-octyl Phthalate	ug/L	1.2	1.2	U
Benzo[b]fluoranthene	ug/L	0.012	0.012	U
7,12-Dimethylbenz[a]anthracene	ug/L	1.1	1.1	U
Benzo[k]fluoranthene	ug/L	0.048	0.048	U
Benzo[a]pyrene	ug/L	0.037	0.037	U
3-Methylcholanthrene	ug/L	1.9	1.9	U
Indeno(1,2,3-cd)pyrene	ug/L	0.011	0.011	U
Dibenzo[a,h]anthracene	ug/L	0.024	0.024	U
Benzo[g,h,i]perylene	ug/L	0.048	0.048	U
N-Nitrosodiphenylamine	ug/L	2.1	2.1	U
N-Nitrosomethylethylamine	ug/L	2.7	2.7	U
N-Nitrosodiethylamine	ug/L	2.1	2.1	U
N-Nitrosopyrrolidine	ug/L	2.1	2.1	U
o-Toluidine	ug/L	2.4	2.4	U
o,o,o-Triethylphosphorothioate	ug/L	2.9	2.9	U
Hexachloropropene	ug/L	2.7	2.7	U
1,4-Phenylenediamine	ug/L	5.0	5.0	U
Safrole	ug/L	3.5	3.5	U
Isosafrole	ug/L	3.2	3.2	U
1,4-Naphthoquinone	ug/L	4.8	4.8	U
1,3-Dinitrobenzene	ug/L	2.1	2.1	U
5-Nitro-o-toluidine	ug/L	2.9	2.9	U
1,3,5-Trinitrobenzene	ug/L	2.5	2.5	U
Nitroquinoline-1-oxide	ug/L	2.0	2.0	U
Methapyrilene	ug/L	1.8	1.8	U
Isodrin	ug/L	3.1	3.1	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
3,3'-Dimethylbenzidine	ug/L	2.4	2.4	U
2-Acetylaminofluorene	ug/L	3.5	3.5	U
Thionazin (Zinophos)	ug/L	1.2	1.2	U
Diallate	ug/L	1.1	1.1	U
Phorate	ug/L	1.2	1.2	U
Dimethoate	ug/L	1.2	1.2	U
Dinoseb	ug/L	2.3	2.3	U
Methyl Parathion	ug/L	1.3	1.3	U
Chlorobenzilate	ug/L	2.0	2.0	U
Kepone	ug/L	5.2	5.2	U
Famphur	ug/L	2.0	2.0	U
2-Fluorophenol (S)	%	91	31-134	
Phenol-d6 (S)	%	84	24-120	
Nitrobenzene-d5 (S)	%	97	38-139	
2-Fluorobiphenyl (S)	%	86	42-138	
2,4,6-Tribromophenol (S)	%	77	48-147	
p-Terphenyl-d14 (S)	%	104	61-154	

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
N-Nitrosodimethylamine	ug/L	50	41	39	81	78		5		
Methyl Methanesulfonate	ug/L	50	42	42	85	84		1		
Ethyl methanesulfonate	ug/L	50	43	43	85	85		0		
Aniline	ug/L	50	38	41	76	81		7		
Phenol	ug/L	50	38	38	75	77	19-106	2	20	
bis(2-Chloroethyl)Ether	ug/L	50	44	43	88	86		2		
2-Chlorophenol	ug/L	50	41	41	82	82		0		
1,3-Dichlorobenzene	ug/L	50	35	37	71	73		3		
1,4-Dichlorobenzene	ug/L	50	36	36	73	72	29-112	1	20	
1,2-Dichlorobenzene	ug/L	50	37	38	74	76		3		
Benzyl Alcohol	ug/L	50	47	47	95	94		0		
bis(2-Chloroisopropyl) Ether	ug/L	50	43	43	86	86		1		
2-Methylphenol (o-Cresol)	ug/L	50	45	43	89	87		3		
Acetophenone	ug/L	50	42	43	84	86		2		
N-Nitrosodi-n-propylamine	ug/L	50	45	45	90	91		1		
3+4-Methylphenol(mp-Cresol)	ug/L	50	47	45	94	90		5		
Hexachloroethane	ug/L	50	39	41	79	82	21-115	3	20	
Nitrobenzene	ug/L	50	52	50	103	100	45-121	4	20	
Isophorone	ug/L	50	48	47	96	93		3		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2-Nitrophenol	ug/L	50	48	47	97	94		2		
2,4-Dimethylphenol	ug/L	50	49	47	99	94		5		
bis(2-Chloroethoxy)methane	ug/L	50	45	44	90	88		2		
2,4-Dichlorophenol	ug/L	50	47	45	93	90	47-121	3	20	
Benzoic Acid	ug/L	50	49	49	98	98		0		
1,2,4-Trichlorobenzene	ug/L	50	46	43	91	86		5		
Naphthalene	ug/L	50	43	41	85	83		3		
4-Chloroaniline	ug/L	50	38	39	76	77		1		
2,6-Dichlorophenol	ug/L	50	53	52	105	104		1		
Hexachlorobutadiene	ug/L	50	41	39	82	78	22-124	4	20	
4-Chloro-3-methylphenol	ug/L	50	51	49	102	98	52-119	3	20	
2-Methylnaphthalene	ug/L	50	40	39	79	78		2		
1-Methylnaphthalene	ug/L	50	41	39	81	79		3		
Hexachlorocyclopentadiene	ug/L	50	37	38	74	75		2		
1,2,4,5-Tetrachlorobenzene	ug/L	50	41	40	82	81		2		
2,4,6-Trichlorophenol	ug/L	50	48	47	97	95	50-125	2	20	
2,4,5-Trichlorophenol	ug/L	50	49	49	99	98		1		
2-Chloronaphthalene	ug/L	50	42	42	83	84		1		
2-Nitroaniline	ug/L	50	50	49	100	99		1		
Dimethyl phthalate	ug/L	50	47	47	95	94		1		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	50	57	58	115	116		2		
Acenaphthylene	ug/L	50	44	43	88	86		3		
3-Nitroaniline	ug/L	50	47	48	94	96		2		
Acenaphthene	ug/L	50	41	40	81	80	47-122	1	20	
2,4-Dinitrophenol	ug/L	50	57	54	114	109		4		
Pentachlorobenzene	ug/L	50	41	41	83	82		0		
Dibenzofuran	ug/L	50	46	45	92	89		2		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	50	58	58	116	117	57-128	1	20	
4-Nitrophenol	ug/L	50	38	40	75	80		7		
2,3,4,6-Tetrachlorophenol	ug/L	50	42	42	84	84		1		
Diethyl phthalate	ug/L	50	46	46	91	93		2		
Fluorene	ug/L	50	46	47	93	94	52-124	1	20	
4-Chlorophenyl Phenyl Ether	ug/L	50	44	44	89	88		1		
4-Nitroaniline	ug/L	50	47	50	94	100		6		
2-Methyl-4,6-dinitrophenol	ug/L	50	58	57	117	114		2		
N-Nitrosodiphenylamine	ug/L	50	43	42	85	84		1		
Diphenylamine	ug/L		43	42				1		
1,2-Diphenylhydrazine	ug/L	50	50	51	99	101		2		
Phenacetin	ug/L	50	50	51	101	102		1		
4-Bromophenyl Phenyl Ether	ug/L	50	44	44	88	88		0		
Hexachlorobenzene	ug/L	50	43	44	86	87	53-125	1	20	
Pentachlorophenol	ug/L	50	45	44	91	88	35-138	3	20	
Pentachloronitrobenzene	ug/L	50	50	49	100	99		1		
Pronamide (Kerb)	ug/L	50	54	55	107	110		3		

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	50	47	48	94	96		2		
Anthracene	ug/L	50	47	48	95	95		1		
Di-n-Butyl Phthalate	ug/L	50	48	50	96	100		4		
Fluoranthene	ug/L	50	46	48	92	95	57-128	3	20	
Pyrene	ug/L	50	52	52	104	105		1		
Butyl benzyl phthalate	ug/L	50	53	56	105	111		5		
Benzo[a]anthracene	ug/L	50	54	54	108	108		0		
Chrysene	ug/L	50	53	54	107	108		2		
bis(2-Ethylhexyl) phthalate	ug/L	50	52	54	103	108	55-135	4	20	
Di-n-octyl Phthalate	ug/L	50	54	54	108	108		1		
Benzo[b]fluoranthene	ug/L	50	52	55	103	109		6		
Benzo[k]fluoranthene	ug/L	50	50	50	100	100		0		
Benzo[a]pyrene	ug/L	50	54	55	107	110	54-128	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	52	55	103	109		6		
3-Methylcholanthrene	ug/L	50	56	59	113	117		4		
Dibenzo[a,h]anthracene	ug/L	50	53	55	106	110		4		
Benzo[g,h,i]perylene	ug/L	50	51	54	102	108		5		
2-Picoline (2-Methylpyridine)	ug/L	50	40	40	81	80		1		
N-Nitrosopiperidine	ug/L	50	48	44	95	89		7		
a,a-Dimethylphenethylamine	ug/L	50	20	20	40	40		2		
N-Nitrosodi-n-butylamine	ug/L	50	60	58	120	116		3		
1-Naphthylamine	ug/L	50	32	34	63	69		9		
2-Naphthylamine	ug/L	50	27	30	53	60		11		
4-Aminobiphenyl	ug/L	50	24	27	48	55		14		
Benzidine	ug/L	50	9.4	15	19	30		45		
4-Dimethyl aminoazobenzene	ug/L	50	51	52	102	104		2		
3,3`-Dichlorobenzidine	ug/L	50	49	49	98	98		1		
7,12-Dimethylbenz[a]anthracene	ug/L	50	46	48	92	96		5		
2-Fluorophenol (S)	%				84	83	31-134	2		
Phenol-d6 (S)	%				75	77	24-120	3		
Nitrobenzene-d5 (S)	%				102	99	38-139	3		
2-Fluorobiphenyl (S)	%				94	89	42-138	5		
2,4,6-Tribromophenol (S)	%				91	97	48-147	6		
p-Terphenyl-d14 (S)	%				105	98	61-154	6		

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers

SEMIVOLATILES

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
N-Nitrosodimethylamine	ug/L	0	50	27	54		
Methyl Methanesulfonate	ug/L	0	50	35	70		
Ethyl methanesulfonate	ug/L	0	50	40	79		
Aniline	ug/L	0	50	32	65		
Phenol	ug/L	0	50	22	45	19-106	
bis(2-Chloroethyl)Ether	ug/L	0	50	38	77		
2-Chlorophenol	ug/L	0	50	36	72		
1,3-Dichlorobenzene	ug/L	0	50	31	61		
1,4-Dichlorobenzene	ug/L	0	50	32	63	29-112	
1,2-Dichlorobenzene	ug/L	0	50	33	66		
Benzyl Alcohol	ug/L	0	50	38	76		
bis(2-Chloroisopropyl) Ether	ug/L	0	50	38	75		
2-Methylphenol (o-Cresol)	ug/L	0	50	37	75		
Acetophenone	ug/L	0	50	37	74		
N-Nitrosodi-n-propylamine	ug/L	0	50	42	83		
3+4-Methylphenol(mp-Cresol)	ug/L	0	50	39	77		
Hexachloroethane	ug/L	0	50	34	68	21-115	
Nitrobenzene	ug/L	0	50	42	84	45-121	
Isophorone	ug/L	0	50	42	84		
2-Nitrophenol	ug/L	0	50	41	83		
2,4-Dimethylphenol	ug/L	0	50	43	85		
bis(2-Chloroethoxy)methane	ug/L	0	50	39	78		
2,4-Dichlorophenol	ug/L	0	50	41	81	47-121	
Benzoic Acid	ug/L	0	50	19	38		
1,2,4-Trichlorobenzene	ug/L	0	50	38	76		
Naphthalene	ug/L	0	50	36	72		
4-Chloroaniline	ug/L	0	50	33	66		
2,6-Dichlorophenol	ug/L	0	50	48	96		
Hexachlorobutadiene	ug/L	0	50	34	68	22-124	
4-Chloro-3-methylphenol	ug/L	0	50	43	87	52-119	
2-Methylnaphthalene	ug/L	0	50	33	67		
1-Methylnaphthalene	ug/L	0	50	35	71		
Hexachlorocyclopentadiene	ug/L	0	50	31	63		
1,2,4,5-Tetrachlorobenzene	ug/L	0	50	36	72		
2,4,6-Trichlorophenol	ug/L	0	50	43	85	50-125	
2,4,5-Trichlorophenol	ug/L	0	50	44	87		
2-Chloronaphthalene	ug/L	0	50	38	76		
2-Nitroaniline	ug/L	0	50	42	85		
Dimethyl phthalate	ug/L	0	50	42	84		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	0	50	51	102		
Acenaphthylene	ug/L	0	50	38	75		
3-Nitroaniline	ug/L	0	50	47	93		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	0	50	36	72	47-122	
2,4-Dinitrophenol	ug/L	0	50	46	92		
Pentachlorobenzene	ug/L	0	50	36	73		
Dibenzofuran	ug/L	0	50	39	77		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	0	50	53	106	57-128	
4-Nitrophenol	ug/L	0	50	23	46		
2,3,4,6-Tetrachlorophenol	ug/L	0	50	39	79		
Diethyl phthalate	ug/L	0	50	42	85		
Fluorene	ug/L	0	50	41	82	52-124	
4-Chlorophenyl Phenyl Ether	ug/L	0	50	39	78		
4-Nitroaniline	ug/L	0	50	46	91		
2-Methyl-4,6-dinitrophenol	ug/L	0	50	54	109		
N-Nitrosodiphenylamine	ug/L	0	50	37	74		
Diphenylamine	ug/L			37			
1,2-Diphenylhydrazine	ug/L	0	50	44	87		
Phenacetin	ug/L	0	50	44	88		
4-Bromophenyl Phenyl Ether	ug/L	0	50	38	76		
Hexachlorobenzene	ug/L	0	50	38	76	53-125	
Pentachlorophenol	ug/L	0	50	36	72	35-138	
Pentachloronitrobenzene	ug/L	0	50	42	85		
Pronamide (Kerb)	ug/L	0	50	47	94		
Phenanthrene	ug/L	0	50	41	82		
Anthracene	ug/L	0	50	41	83		
Di-n-Butyl Phthalate	ug/L	0	50	43	85		
Fluoranthene	ug/L	0	50	42	84	57-128	
Pyrene	ug/L	0	50	46	93		
Butyl benzyl phthalate	ug/L	0	50	48	96		
Benzo[a]anthracene	ug/L	0	50	49	97		
Chrysene	ug/L	0	50	47	93		
bis(2-Ethylhexyl) phthalate	ug/L	0	50	46	92	55-135	
Di-n-octyl Phthalate	ug/L	0	50	50	100		
Benzo[b]fluoranthene	ug/L	0	50	49	98		
Benzo[k]fluoranthene	ug/L	0	50	42	84		
Benzo[a]pyrene	ug/L	0	50	47	95	54-128	
Indeno(1,2,3-cd)pyrene	ug/L	0	50	48	97		
3-Methylcholanthrene	ug/L	0	50	50	99		
Dibenzo[a,h]anthracene	ug/L	0	50	49	97		
Benzo[g,h,i]perylene	ug/L	0	50	46	93		
2-Picoline (2-Methylpyridine)	ug/L	0	50	32	65		
N-Nitrosopiperidine	ug/L	0	50	41	82		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
a,a-Dimethylphenethylamine	ug/L	0	50	17	34		
N-Nitrosodi-n-butylamine	ug/L	0	50	46	92		
1-Naphthylamine	ug/L	0	50	30	60		
2-Naphthylamine	ug/L	0	50	26	52		
4-Aminobiphenyl	ug/L	0	50	25	51		
Benzidine	ug/L	0	50	8.0	16		
4-Dimethyl aminoazobenzene	ug/L	0	50	47	93		
3,3`-Dichlorobenzidine	ug/L	0	50	45	89		
7,12-Dimethylbenz[a]anthracene	ug/L	0	50	42	83		
2-Fluorophenol (S)	%				60	31-134	
Phenol-d6 (S)	%				44	24-120	
Nitrobenzene-d5 (S)	%				89	38-139	
2-Fluorobiphenyl (S)	%				80	42-138	
2,4,6-Tribromophenol (S)	%				86	48-147	
p-Terphenyl-d14 (S)	%				93	61-154	

QC Batch: EXTj/4440 Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C Prepared: 11/25/2019 17:30

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Phenol	ug/L	0.54	0.54	U
2-Chlorophenol	ug/L	1.5	1.5	U
2-Methylphenol (o-Cresol)	ug/L	1.5	1.5	U
3+4-Methylphenol(mp-Cresol)	ug/L	1.0	1.0	U
2-Nitrophenol	ug/L	0.63	0.63	U
2,4-Dimethylphenol	ug/L	2.6	2.6	U
Benzoic Acid	ug/L	0.78	0.78	U
2,4-Dichlorophenol	ug/L	0.90	0.90	U
2,6-Dichlorophenol	ug/L	1.3	1.3	U
4-Chloro-3-methylphenol	ug/L	0.63	0.63	U
2,4,6-Trichlorophenol	ug/L	1.4	1.4	U
2,4,5-Trichlorophenol	ug/L	1.3	1.3	U
2,4-Dinitrophenol	ug/L	1.1	1.1	U
4-Nitrophenol	ug/L	2.9	2.9	U
2,3,4,6-Tetrachlorophenol	ug/L	1.3	1.3	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Methyl-4,6-dinitrophenol	ug/L	1.2	1.2	U
Pentachlorophenol	ug/L	0.95	0.95	U
N-Nitrosodimethylamine	ug/L	0.93	0.93	U
2-Picoline (2-Methylpyridine)	ug/L	1.2	1.2	U
Methyl Methanesulfonate	ug/L	0.67	0.67	U
Ethyl methanesulfonate	ug/L	0.91	0.91	U
Aniline	ug/L	0.90	0.90	U
bis(2-Chloroethyl)Ether	ug/L	1.5	1.5	U
1,3-Dichlorobenzene	ug/L	1.0	1.0	U
1,4-Dichlorobenzene	ug/L	2.0	2.0	U
1,2-Dichlorobenzene	ug/L	1.4	1.4	U
Benzyl Alcohol	ug/L	2.4	2.4	U
bis(2-Chloroisopropyl) Ether	ug/L	1.4	1.4	U
Acetophenone	ug/L	1.6	1.6	U
N-Nitrosodi-n-propylamine	ug/L	2.2	2.2	U
Hexachloroethane	ug/L	1.2	1.2	U
Nitrobenzene	ug/L	1.1	1.1	U
N-Nitrosopiperidine	ug/L	1.3	1.3	U
Isophorone	ug/L	1.1	1.1	U
bis(2-Chloroethoxy)methane	ug/L	1.2	1.2	U
1,2,4-Trichlorobenzene	ug/L	0.69	0.69	U
Naphthalene	ug/L	0.048	0.048	U
a,a-Dimethylphenethylamine	ug/L	1.9	1.9	U
4-Chloroaniline	ug/L	0.90	0.90	U
Hexachlorobutadiene	ug/L	1.3	1.3	U
N-Nitrosodi-n-butylamine	ug/L	1.5	1.5	U
2-Methylnaphthalene	ug/L	0.049	0.049	U
1-Methylnaphthalene	ug/L	0.050	0.050	U
Hexachlorocyclopentadiene	ug/L	1.0	1.0	U
1,2,4,5-Tetrachlorobenzene	ug/L	1.3	1.3	U
2-Chloronaphthalene	ug/L	1.7	1.7	U
2-Nitroaniline	ug/L	1.5	1.5	U
Dimethyl phthalate	ug/L	1.8	1.8	U
2,6-Dinitrotoluene (2,6-DNT)	ug/L	2.0	2.0	U
Acenaphthylene	ug/L	0.042	0.042	U
3-Nitroaniline	ug/L	1.1	1.1	U
Acenaphthene	ug/L	0.040	0.040	U
Pentachlorobenzene	ug/L	1.3	1.3	U
Dibenzofuran	ug/L	0.069	0.069	U
2,4-Dinitrotoluene (2,4-DNT)	ug/L	1.8	1.8	U
1-Naphthylamine	ug/L	0.95	0.95	U
2-Naphthylamine	ug/L	0.89	0.89	U
Diethyl phthalate	ug/L	2.1	2.1	U
Fluorene	ug/L	0.038	0.038	U
4-Chlorophenyl Phenyl Ether	ug/L	1.6	1.6	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
4-Nitroaniline	ug/L	1.3	1.3	U
Diphenylamine	ug/L	2.1	2.1	U
1,2-Diphenylhydrazine	ug/L	0.96	0.96	U
Phenacetin	ug/L	3.2	3.2	U
4-Bromophenyl Phenyl Ether	ug/L	1.1	1.1	U
Hexachlorobenzene	ug/L	0.99	0.99	U
Pentachloronitrobenzene	ug/L	1.7	1.7	U
4-Aminobiphenyl	ug/L	0.61	0.61	U
Pronamide (Kerb)	ug/L	3.6	3.6	U
Phenanthrene	ug/L	0.040	0.040	U
Anthracene	ug/L	0.035	0.035	U
Di-n-Butyl Phthalate	ug/L	0.88	0.88	U
Fluoranthene	ug/L	0.037	0.037	U
Benzidine	ug/L	1.2	1.2	U
Pyrene	ug/L	0.036	0.036	U
4-Dimethyl aminoazobenzene	ug/L	0.73	0.73	U
Butyl benzyl phthalate	ug/L	1.1	1.1	U
Benzo[a]anthracene	ug/L	0.012	0.012	U
3,3`-Dichlorobenzidine	ug/L	1.3	1.3	U
Chrysene	ug/L	0.033	0.033	U
bis(2-Ethylhexyl) phthalate	ug/L	2.0	2.0	U
Di-n-octyl Phthalate	ug/L	1.2	1.2	U
Benzo[b]fluoranthene	ug/L	0.012	0.012	U
7,12-Dimethylbenz[a]anthracene	ug/L	1.1	1.1	U
Benzo[k]fluoranthene	ug/L	0.048	0.048	U
Benzo[a]pyrene	ug/L	0.037	0.037	U
3-Methylcholanthrene	ug/L	1.9	1.9	U
Indeno(1,2,3-cd)pyrene	ug/L	0.011	0.011	U
Dibenzo[a,h]anthracene	ug/L	0.024	0.024	U
Benzo[g,h,i]perylene	ug/L	0.048	0.048	U
N-Nitrosodiphenylamine	ug/L	2.1	2.1	U
N-Nitrosomethylethylamine	ug/L	2.7	2.7	U
N-Nitrosodiethylamine	ug/L	2.1	2.1	U
N-Nitrosopyrrolidine	ug/L	2.1	2.1	U
o-Toluidine	ug/L	2.4	2.4	U
o,o,o-Triethylphosphorothioate	ug/L	2.9	2.9	U
Hexachloropropene	ug/L	2.7	2.7	U
1,4-Phenylenediamine	ug/L	5.0	5.0	U
Safrole	ug/L	3.5	3.5	U
Isosafrole	ug/L	3.2	3.2	U
1,4-Naphthoquinone	ug/L	4.8	4.8	U
1,3-Dinitrobenzene	ug/L	2.1	2.1	U
5-Nitro-o-toluidine	ug/L	2.9	2.9	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3301848

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,3,5-Trinitrobenzene	ug/L	2.5	2.5	U
Nitroquinoline-1-oxide	ug/L	2.0	2.0	U
Methapyrilene	ug/L	1.8	1.8	U
Isodrin	ug/L	3.1	3.1	U
3,3'-Dimethylbenzidine	ug/L	2.4	2.4	U
2-Acetylaminofluorene	ug/L	3.5	3.5	U
Thionazin (Zinophos)	ug/L	1.2	1.2	U
Diallate	ug/L	1.1	1.1	U
Phorate	ug/L	1.2	1.2	U
Dimethoate	ug/L	1.2	1.2	U
Dinoseb	ug/L	2.3	2.3	U
Methyl Parathion	ug/L	1.3	1.3	U
Chlorobenzilate	ug/L	2.0	2.0	U
Kepone	ug/L	5.2	5.2	U
Famphur	ug/L	2.0	2.0	U
2-Fluorophenol (S)	%	91	31-134	
Phenol-d6 (S)	%	84	24-120	
Nitrobenzene-d5 (S)	%	97	38-139	
2-Fluorobiphenyl (S)	%	86	42-138	
2,4,6-Tribromophenol (S)	%	77	48-147	
p-Terphenyl-d14 (S)	%	104	61-154	

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
N-Nitrosodimethylamine	ug/L	50	41	39	81	78		5		
Methyl Methanesulfonate	ug/L	50	42	42	85	84		1		
Ethyl methanesulfonate	ug/L	50	43	43	85	85		0		
Aniline	ug/L	50	38	41	76	81		7		
Phenol	ug/L	50	38	38	75	77	19-106	2	20	
bis(2-Chloroethyl)Ether	ug/L	50	44	43	88	86		2		
2-Chlorophenol	ug/L	50	41	41	82	82		0		
1,3-Dichlorobenzene	ug/L	50	35	37	71	73		3		
1,4-Dichlorobenzene	ug/L	50	36	36	73	72	29-112	1	20	
1,2-Dichlorobenzene	ug/L	50	37	38	74	76		3		
Benzyl Alcohol	ug/L	50	47	47	95	94		0		
bis(2-Chloroisopropyl) Ether	ug/L	50	43	43	86	86		1		
2-Methylphenol (o-Cresol)	ug/L	50	45	43	89	87		3		
Acetophenone	ug/L	50	42	43	84	86		2		
N-Nitrosodi-n-propylamine	ug/L	50	45	45	90	91		1		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
3+4-Methylphenol(mp-Cresol)	ug/L	50	47	45	94	90		5		
Hexachloroethane	ug/L	50	39	41	79	82	21-115	3	20	
Nitrobenzene	ug/L	50	52	50	103	100	45-121	4	20	
Isophorone	ug/L	50	48	47	96	93		3		
2-Nitrophenol	ug/L	50	48	47	97	94		2		
2,4-Dimethylphenol	ug/L	50	49	47	99	94		5		
bis(2-Chloroethoxy)methane	ug/L	50	45	44	90	88		2		
2,4-Dichlorophenol	ug/L	50	47	45	93	90	47-121	3	20	
Benzoic Acid	ug/L	50	49	49	98	98		0		
1,2,4-Trichlorobenzene	ug/L	50	46	43	91	86		5		
Naphthalene	ug/L	50	43	41	85	83		3		
4-Chloroaniline	ug/L	50	38	39	76	77		1		
2,6-Dichlorophenol	ug/L	50	53	52	105	104		1		
Hexachlorobutadiene	ug/L	50	41	39	82	78	22-124	4	20	
4-Chloro-3-methylphenol	ug/L	50	51	49	102	98	52-119	3	20	
2-Methylnaphthalene	ug/L	50	40	39	79	78		2		
1-Methylnaphthalene	ug/L	50	41	39	81	79		3		
Hexachlorocyclopentadiene	ug/L	50	37	38	74	75		2		
1,2,4,5-Tetrachlorobenzene	ug/L	50	41	40	82	81		2		
2,4,6-Trichlorophenol	ug/L	50	48	47	97	95	50-125	2	20	
2,4,5-Trichlorophenol	ug/L	50	49	49	99	98		1		
2-Chloronaphthalene	ug/L	50	42	42	83	84		1		
2-Nitroaniline	ug/L	50	50	49	100	99		1		
Dimethyl phthalate	ug/L	50	47	47	95	94		1		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	50	57	58	115	116		2		
Acenaphthylene	ug/L	50	44	43	88	86		3		
3-Nitroaniline	ug/L	50	47	48	94	96		2		
Acenaphthene	ug/L	50	41	40	81	80	47-122	1	20	
2,4-Dinitrophenol	ug/L	50	57	54	114	109		4		
Pentachlorobenzene	ug/L	50	41	41	83	82		0		
Dibenzofuran	ug/L	50	46	45	92	89		2		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	50	58	58	116	117	57-128	1	20	
4-Nitrophenol	ug/L	50	38	40	75	80		7		
2,3,4,6-Tetrachlorophenol	ug/L	50	42	42	84	84		1		
Diethyl phthalate	ug/L	50	46	46	91	93		2		
Fluorene	ug/L	50	46	47	93	94	52-124	1	20	
4-Chlorophenyl Phenyl Ether	ug/L	50	44	44	89	88		1		
4-Nitroaniline	ug/L	50	47	50	94	100		6		
2-Methyl-4,6-dinitrophenol	ug/L	50	58	57	117	114		2		
N-Nitrosodiphenylamine	ug/L	50	43	42	85	84		1		
Diphenylamine	ug/L		43	42				1		
1,2-Diphenylhydrazine	ug/L	50	50	51	99	101		2		
Phenacetin	ug/L	50	50	51	101	102		1		
4-Bromophenyl Phenyl Ether	ug/L	50	44	44	88	88		0		

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3301849 3301850

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Hexachlorobenzene	ug/L	50	43	44	86	87	53-125	1	20	
Pentachlorophenol	ug/L	50	45	44	91	88	35-138	3	20	
Pentachloronitrobenzene	ug/L	50	50	49	100	99		1		
Pronamide (Kerb)	ug/L	50	54	55	107	110		3		
Phenanthrene	ug/L	50	47	48	94	96		2		
Anthracene	ug/L	50	47	48	95	95		1		
Di-n-Butyl Phthalate	ug/L	50	48	50	96	100		4		
Fluoranthene	ug/L	50	46	48	92	95	57-128	3	20	
Pyrene	ug/L	50	52	52	104	105		1		
Butyl benzyl phthalate	ug/L	50	53	56	105	111		5		
Benzo[a]anthracene	ug/L	50	54	54	108	108		0		
Chrysene	ug/L	50	53	54	107	108		2		
bis(2-Ethylhexyl) phthalate	ug/L	50	52	54	103	108	55-135	4	20	
Di-n-octyl Phthalate	ug/L	50	54	54	108	108		1		
Benzo[b]fluoranthene	ug/L	50	52	55	103	109		6		
Benzo[k]fluoranthene	ug/L	50	50	50	100	100		0		
Benzo[a]pyrene	ug/L	50	54	55	107	110	54-128	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	52	55	103	109		6		
3-Methylcholanthrene	ug/L	50	56	59	113	117		4		
Dibenzo[a,h]anthracene	ug/L	50	53	55	106	110		4		
Benzo[g,h,i]perylene	ug/L	50	51	54	102	108		5		
2-Picoline (2-Methylpyridine)	ug/L	50	40	40	81	80		1		
N-Nitrosopiperidine	ug/L	50	48	44	95	89		7		
a,a-Dimethylphenethylamine	ug/L	50	20	20	40	40		2		
N-Nitrosodi-n-butylamine	ug/L	50	60	58	120	116		3		
1-Naphthylamine	ug/L	50	32	34	63	69		9		
2-Naphthylamine	ug/L	50	27	30	53	60		11		
4-Aminobiphenyl	ug/L	50	24	27	48	55		14		
Benzidine	ug/L	50	9.4	15	19	30		45		
4-Dimethyl aminoazobenzene	ug/L	50	51	52	102	104		2		
3,3`-Dichlorobenzidine	ug/L	50	49	49	98	98		1		
7,12-Dimethylbenz[a]anthracene	ug/L	50	46	48	92	96		5		
2-Fluorophenol (S)	%				84	83	31-134	2		
Phenol-d6 (S)	%				75	77	24-120	3		
Nitrobenzene-d5 (S)	%				102	99	38-139	3		
2-Fluorobiphenyl (S)	%				94	89	42-138	5		
2,4,6-Tribromophenol (S)	%				91	97	48-147	6		
p-Terphenyl-d14 (S)	%				105	98	61-154	6		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
N-Nitrosodimethylamine	ug/L	0	50	27	54		
Methyl Methanesulfonate	ug/L	0	50	35	70		
Ethyl methanesulfonate	ug/L	0	50	40	79		
Aniline	ug/L	0	50	32	65		
Phenol	ug/L	0	50	22	45	19-106	
bis(2-Chloroethyl)Ether	ug/L	0	50	38	77		
2-Chlorophenol	ug/L	0	50	36	72		
1,3-Dichlorobenzene	ug/L	0	50	31	61		
1,4-Dichlorobenzene	ug/L	0	50	32	63	29-112	
1,2-Dichlorobenzene	ug/L	0	50	33	66		
Benzyl Alcohol	ug/L	0	50	38	76		
bis(2-Chloroisopropyl) Ether	ug/L	0	50	38	75		
2-Methylphenol (o-Cresol)	ug/L	0	50	37	75		
Acetophenone	ug/L	0	50	37	74		
N-Nitrosodi-n-propylamine	ug/L	0	50	42	83		
3+4-Methylphenol(mp-Cresol)	ug/L	0	50	39	77		
Hexachloroethane	ug/L	0	50	34	68	21-115	
Nitrobenzene	ug/L	0	50	42	84	45-121	
Isophorone	ug/L	0	50	42	84		
2-Nitrophenol	ug/L	0	50	41	83		
2,4-Dimethylphenol	ug/L	0	50	43	85		
bis(2-Chloroethoxy)methane	ug/L	0	50	39	78		
2,4-Dichlorophenol	ug/L	0	50	41	81	47-121	
Benzoic Acid	ug/L	0	50	19	38		
1,2,4-Trichlorobenzene	ug/L	0	50	38	76		
Naphthalene	ug/L	0	50	36	72		
4-Chloroaniline	ug/L	0	50	33	66		
2,6-Dichlorophenol	ug/L	0	50	48	96		
Hexachlorobutadiene	ug/L	0	50	34	68	22-124	
4-Chloro-3-methylphenol	ug/L	0	50	43	87	52-119	
2-Methylnaphthalene	ug/L	0	50	33	67		
1-Methylnaphthalene	ug/L	0	50	35	71		
Hexachlorocyclopentadiene	ug/L	0	50	31	63		
1,2,4,5-Tetrachlorobenzene	ug/L	0	50	36	72		
2,4,6-Trichlorophenol	ug/L	0	50	43	85	50-125	
2,4,5-Trichlorophenol	ug/L	0	50	44	87		
2-Chloronaphthalene	ug/L	0	50	38	76		
2-Nitroaniline	ug/L	0	50	42	85		
Dimethyl phthalate	ug/L	0	50	42	84		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	0	50	51	102		
Acenaphthylene	ug/L	0	50	38	75		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	0	50	47	93		
Acenaphthene	ug/L	0	50	36	72	47-122	
2,4-Dinitrophenol	ug/L	0	50	46	92		
Pentachlorobenzene	ug/L	0	50	36	73		
Dibenzofuran	ug/L	0	50	39	77		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	0	50	53	106	57-128	
4-Nitrophenol	ug/L	0	50	23	46		
2,3,4,6-Tetrachlorophenol	ug/L	0	50	39	79		
Diethyl phthalate	ug/L	0	50	42	85		
Fluorene	ug/L	0	50	41	82	52-124	
4-Chlorophenyl Phenyl Ether	ug/L	0	50	39	78		
4-Nitroaniline	ug/L	0	50	46	91		
2-Methyl-4,6-dinitrophenol	ug/L	0	50	54	109		
N-Nitrosodiphenylamine	ug/L	0	50	37	74		
Diphenylamine	ug/L			37			
1,2-Diphenylhydrazine	ug/L	0	50	44	87		
Phenacetin	ug/L	0	50	44	88		
4-Bromophenyl Phenyl Ether	ug/L	0	50	38	76		
Hexachlorobenzene	ug/L	0	50	38	76	53-125	
Pentachlorophenol	ug/L	0	50	36	72	35-138	
Pentachloronitrobenzene	ug/L	0	50	42	85		
Pronamide (Kerb)	ug/L	0	50	47	94		
Phenanthrene	ug/L	0	50	41	82		
Anthracene	ug/L	0	50	41	83		
Di-n-Butyl Phthalate	ug/L	0	50	43	85		
Fluoranthene	ug/L	0	50	42	84	57-128	
Pyrene	ug/L	0	50	46	93		
Butyl benzyl phthalate	ug/L	0	50	48	96		
Benzo[a]anthracene	ug/L	0	50	49	97		
Chrysene	ug/L	0	50	47	93		
bis(2-Ethylhexyl) phthalate	ug/L	0	50	46	92	55-135	
Di-n-octyl Phthalate	ug/L	0	50	50	100		
Benzo[b]fluoranthene	ug/L	0	50	49	98		
Benzo[k]fluoranthene	ug/L	0	50	42	84		
Benzo[a]pyrene	ug/L	0	50	47	95	54-128	
Indeno(1,2,3-cd)pyrene	ug/L	0	50	48	97		
3-Methylcholanthrene	ug/L	0	50	50	99		
Dibenzo[a,h]anthracene	ug/L	0	50	49	97		
Benzo[g,h,i]perylene	ug/L	0	50	46	93		
2-Picoline (2-Methylpyridine)	ug/L	0	50	32	65		
N-Nitrosopiperidine	ug/L	0	50	41	82		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3307893 Original: J1915637001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
a,a-Dimethylphenethylamine	ug/L	0	50	17	34		
N-Nitrosodi-n-butylamine	ug/L	0	50	46	92		
1-Naphthylamine	ug/L	0	50	30	60		
2-Naphthylamine	ug/L	0	50	26	52		
4-Aminobiphenyl	ug/L	0	50	25	51		
Benzidine	ug/L	0	50	8.0	16		
4-Dimethyl aminoazobenzene	ug/L	0	50	47	93		
3,3`-Dichlorobenzidine	ug/L	0	50	45	89		
7,12-Dimethylbenz[a]anthracene	ug/L	0	50	42	83		
2-Fluorophenol (S)	%				60	31-134	
Phenol-d6 (S)	%				44	24-120	
Nitrobenzene-d5 (S)	%				89	38-139	
2-Fluorobiphenyl (S)	%				80	42-138	
2,4,6-Tribromophenol (S)	%				86	48-147	
p-Terphenyl-d14 (S)	%				93	61-154	

QC Batch: WCAt/15062 Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4 Prepared:

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302000

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chemical Oxygen Demand	mg/L	24	24	U

LABORATORY CONTROL SAMPLE: 3302001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chemical Oxygen Demand	mg/L	500	490	97	90-110	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302003 3302004 Original: T1921014004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chemical Oxygen Demand	mg/L	140	2500	2600	2600	98	98	90-110	0	10	

QC Batch: WCAt/15064 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302075

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 3302076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.37	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302077 3302078 Original: J1915195001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	0.25	0.4	0.62	0.62	92	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302081 3302082 Original: M1905914001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	0.004	0.4	0.38	0.38	95	95	90-110	1	10	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: EXTj/4445 Analysis Method: EPA 8081
QC Batch Method: SW-846 3510C Prepared: 11/26/2019 13:30
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302326

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
alpha-BHC	ug/L	0.0030	0.0030	U
gamma-BHC (Lindane)	ug/L	0.0018	0.0018	U
beta-BHC	ug/L	0.0019	0.0019	U
delta-BHC	ug/L	0.00086	0.00086	U
Heptachlor	ug/L	0.0035	0.0035	U
Aldrin	ug/L	0.0019	0.0019	U
Heptachlor Epoxide	ug/L	0.0017	0.0017	U
Endosulfan I	ug/L	0.0031	0.0031	U
4,4`-DDE	ug/L	0.0037	0.0037	U
Dieldrin	ug/L	0.0011	0.0011	U
Endrin	ug/L	0.0017	0.0017	U
4,4`-DDD	ug/L	0.0016	0.0016	U
Endosulfan II	ug/L	0.0026	0.0026	U
Endrin Aldehyde	ug/L	0.0025	0.0025	U
4,4`-DDT	ug/L	0.0021	0.0021	U
Endosulfan Sulfate	ug/L	0.0032	0.0032	U
Methoxychlor	ug/L	0.0058	0.0058	U
Chlordane (technical)	ug/L	0.053	0.053	U
Toxaphene	ug/L	0.12	0.12	U
Tetrachloro-m-xylene (S)	%	86	44-124	
Decachlorobiphenyl (S)	%	97	48-137	

LABORATORY CONTROL SAMPLE & LCSD: 3302327 3302328

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
alpha-BHC	ug/L	0.1	0.061	0.061	61	61	54-138	0	30	
gamma-BHC (Lindane)	ug/L	0.1	0.063	0.064	63	64	59-134	1	30	
beta-BHC	ug/L	0.1	0.066	0.062	66	62	56-136	5	30	
delta-BHC	ug/L	0.1	0.065	0.065	65	65	52-142	0	30	
Heptachlor	ug/L	0.1	0.063	0.065	63	65	54-130	2	30	
Aldrin	ug/L	0.1	0.061	0.060	61	60	45-134	3	30	
Heptachlor Epoxide	ug/L	0.1	0.064	0.065	64	65	61-133	2	30	
4,4`-DDE	ug/L	0.1	0.066	0.065	66	65	57-135	1	30	
Dieldrin	ug/L	0.1	0.069	0.068	69	68	60-136	2	30	
Endrin	ug/L	0.1	0.067	0.066	67	67	60-138	0	30	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3302327 3302328

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
4,4`-DDD	ug/L	0.1	0.073	0.074	73	74	56-143	1	30	
Endosulfan II	ug/L	0.1	0.062	0.062	62	62	52-135	1	30	
Endrin Aldehyde	ug/L	0.1	0.065	0.070	65	70	51-132	7	30	
4,4`-DDT	ug/L	0.1	0.068	0.070	68	70	51-143	3	30	
Endosulfan Sulfate	ug/L	0.1	0.072	0.073	72	73	62-133	1	30	
Methoxychlor	ug/L	0.1	0.075	0.077	75	77	54-145	3	30	
Chlordane (technical)	ug/L		0.053	0.053U				0	30	
Toxaphene	ug/L		0.12	0.12U				0		
Tetrachloro-m-xylene (S)	%				71	73	44-124	2		
Decachlorobiphenyl (S)	%				86	87	48-137	2		

LABORATORY CONTROL SAMPLE & LCSD: 3302327 3302328

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Endosulfan I	ug/L	0.1	0.078	0.071	78	71	62-126	9	30	

QC Batch: EXTj/4446 Analysis Method: SW-846 8082A

QC Batch Method: SW-846 3510C Prepared: 11/26/2019 13:30

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302331

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Aroclor 1016 (PCB-1016)	ug/L	0.065	0.065	U
Aroclor 1221 (PCB-1221)	ug/L	0.11	0.11	U
Aroclor 1232 (PCB-1232)	ug/L	0.097	0.097	U
Aroclor 1242 (PCB-1242)	ug/L	0.096	0.096	U
Aroclor 1248 (PCB-1248)	ug/L	0.067	0.067	U
Aroclor 1254 (PCB-1254)	ug/L	0.051	0.051	U
Aroclor 1260 (PCB-1260)	ug/L	0.080	0.080	U
Tetrachloro-m-xylene (S)	%	86	61-119	
Decachlorobiphenyl (S)	%	97	44-136	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3302332 3302333

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Aroclor 1016 (PCB-1016)	ug/L	1	0.59	0.51	59	51	38-156	15	30	
Aroclor 1221 (PCB-1221)	ug/L		0.11	0.11U				0	30	
Aroclor 1232 (PCB-1232)	ug/L		0.097	0.097U				0	30	
Aroclor 1242 (PCB-1242)	ug/L		0.096	0.096U				0	30	
Aroclor 1248 (PCB-1248)	ug/L		0.067	0.067U				0	30	
Aroclor 1254 (PCB-1254)	ug/L		0.051	0.051U				0	30	
Aroclor 1260 (PCB-1260)	ug/L	1	0.59	0.60	59	60	45-134	3	30	
Tetrachloro-m-xylene (S)	%				87	87	61-119	0		
Decachlorobiphenyl (S)	%				102	104	44-136	2		

QC Batch: EXTj/4447 Analysis Method: EPA 8141

QC Batch Method: SW-846 3510C Prepared: 11/26/2019 13:30

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302335

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Mevinphos	ug/L	0.055	0.055	U
Demeton	ug/L	0.060	0.060	U
Ethoprop	ug/L	0.047	0.047	U
Phorate	ug/L	0.044	0.044	U
Diazinon	ug/L	0.055	0.055	U
Disulfoton	ug/L	0.041	0.041	U
Ronnel	ug/L	0.048	0.048	U
Methyl Parathion	ug/L	0.054	0.054	U
Chlorpyrifos	ug/L	0.041	0.041	U
Merphos	ug/L	0.057	0.057	U
Fensulfothion	ug/L	0.047	0.047	U
Azinphos-methyl	ug/L	0.057	0.057	U
Dimethoate	ug/L	0.054	0.054	U
Fonophos	ug/L	0.050	0.050	U
Chlorpyrifos-methyl	ug/L	0.060	0.060	U
Malathion	ug/L	0.073	0.073	U
Parathion (Ethyl)	ug/L	0.064	0.064	U
Ethion	ug/L	0.069	0.069	U
Famphur	ug/L	0.11	0.11	U
Phosmet	ug/L	0.076	0.076	U
Atrazine	ug/L	0.071	0.071	U
Simazine	ug/L	0.072	0.072	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3302335

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Tributylphosphate (S)	%	96	48.5-121	

LABORATORY CONTROL SAMPLE & LCSD: 3302336 3302337

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Mevinphos	ug/L	0.5	0.48	0.49	96	98	37-171	2	30	
Demeton	ug/L	0.5	0.43	0.42	86	84	25-128	3	30	
Ethoprop	ug/L	0.5	0.49	0.48	98	96	52-125	2	30	
Phorate	ug/L	0.5	0.47	0.46	93	92	23-139	2	30	
Diazinon	ug/L	0.5	0.48	0.47	96	94	43-129	2	30	
Disulfoton	ug/L	0.5	0.44	0.42	88	83	36-134	5	30	
Ronnel	ug/L	0.5	0.48	0.47	97	94	42-133	3	30	
Methyl Parathion	ug/L	0.5	0.48	0.47	95	93	49-134	2	30	
Chlorpyrifos	ug/L	0.5	0.43	0.43	86	85	47-133	1	30	
Merphos	ug/L	0.5	0.45	0.44	91	88	26-133	2	30	
Fensulfothion	ug/L	0.5	0.46	0.47	91	93	24-160	3	30	
Azinphos-methyl	ug/L	0.5	0.54	0.52	108	104	43-135	3		
Dimethoate	ug/L	0.5	0.39	0.37	77	74	26-125	5	30	
Fonophos	ug/L	0.5	0.46	0.45	92	91	54-122	1	30	
Chlorpyrifos-methyl	ug/L	0.5	0.54	0.53	108	105	51-133	3	30	
Malathion	ug/L	0.5	0.51	0.50	103	99	44-132	3	30	
Parathion (Ethyl)	ug/L	0.5	0.52	0.53	105	106	52-134	1	30	
Ethion	ug/L	0.5	0.51	0.50	103	101	42-145	2	30	
Famphur	ug/L	0.5	0.51	0.50	103	99	38-183	4	30	
Phosmet	ug/L	0.5	0.51	0.48	102	95	44-164	7	30	
Atrazine	ug/L	0.5	0.48	0.45	96	91	45-120	5	30	
Simazine	ug/L	0.5	0.52	0.47	104	93	51-136	11	30	
Tributylphosphate (S)	%				91	88	48.5-121	3	30	

QC Batch: EXTj/4448 Analysis Method: EPA 8151

QC Batch Method: 8151 Prepared: 11/25/2019 15:00

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302778

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3302778

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dalapon	ug/L	7.6	7.6	U
Dicamba	ug/L	0.75	0.75	U
Dichloroprop	ug/L	0.87	0.87	U
2,4-D	ug/L	1.3	1.3	U
Pentachlorophenol	ug/L	0.29	0.29	U
Silvex (2,4,5-TP)	ug/L	0.30	0.30	U
2,4,5-T	ug/L	0.33	0.33	U
2,4-DB	ug/L	1.7	1.7	U
Dinoseb	ug/L	0.51	0.51	U
2,4-Dichlorophenylacetic acid (S)	%	97	41-122	

LABORATORY CONTROL SAMPLE: 3302779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Dalapon	ug/L	40	24	59	19-139	
Dicamba	ug/L	8	4.5	56	50-141	
Dichloroprop	ug/L	24	18	73	46-159	
2,4-D	ug/L	24	16	66	45-152	
Pentachlorophenol	ug/L	4	3.1	77	56-139	
Silvex (2,4,5-TP)	ug/L	8	5.3	66	51-134	
2,4,5-T	ug/L	8	5.4	68	42-147	
2,4-DB	ug/L	24	18	74	45-152	
Dinoseb	ug/L	8	5.3	66	39-160	
2,4-Dichlorophenylacetic acid (S)	%			89	41-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302780 3302781 Original: M1905895033

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Dalapon	ug/L	0	40	36	28	90	69	19-139	26	30	
Dicamba	ug/L	0	8	6.2	4.9	77	61	50-141	22	30	
Dichloroprop	ug/L	0	24	15	13	62	52	46-159	18	30	
2,4-D	ug/L	0	24	15	11	62	48	45-152	26	30	
Pentachlorophenol	ug/L	0	4	3.4	2.7	85	67	56-139	23	30	
Silvex (2,4,5-TP)	ug/L	0	8	5.4	4.3	67	54	51-134	22	30	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302780 3302781 Original: M1905895033

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2,4,5-T	ug/L	0	8	4.8	4.0	60	50	42-147	20	30	
2,4-DB	ug/L	0	24	16	14	68	56	45-152	18	30	
Dinoseb	ug/L	0	8	6.4	5.0I	79	63	39-160	24	30	
2,4-Dichlorophenylacetic acid (S)	%	107				96	79	41-122	19	30	

QC Batch: DGMt/4418 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/26/2019 10:00
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3302806

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE: 3302807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	1	0.87	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3302808 3302809 Original: A1909925016

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	1	0.98	0.95	98	95	80-120	4	20	

QC Batch: WCAt/15156 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Prepared:
Associated Lab Samples: T1921060001, T1921060002

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3306287

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 3306289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	100	101	75-125	

SAMPLE DUPLICATE: 3306290 Original: M1905915001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	69	69	0	20	

SAMPLE DUPLICATE: 3306291 Original: S1902596002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	190	190	1	20	

QC Batch: WCAt/15184 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3307932

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Fluoride	mg/L	0.10	0.10	U
Chloride	mg/L	1.0	1.0	U
Bromide	mg/L	0.090	0.090	U
Sulfate	mg/L	1.0	1.0	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3307933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Fluoride	mg/L	2.5	2.5	98	90-110	
Chloride	mg/L	25	25	100	90-110	
Bromide	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	25	25	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3307934 3307935 Original: T1920963005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.084	2	1.9	1.9	94	94	90-110	0	10	
Chloride	mg/L	48	20	64	64	80	80	90-110	0	10	
Bromide	mg/L	0.15	2	1.8	1.9	92	93	90-110	2	10	
Sulfate	mg/L	7	20	25	25	89	89	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3307936 3307937 Original: T1921144001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.54	2	2.3	2.3	89	89	90-110	0	10	
Chloride	mg/L	4.8	20	23	23	90	90	90-110	0	10	
Bromide	mg/L	0	2	1.8	1.8	88	88	90-110	0	10	
Sulfate	mg/L	1.2	20	19	19	95	96	90-110	0	10	

QC Batch: DGMt/4444 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 12/04/2019 10:00
Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3308405

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	3.4	3.4	U
Aluminum	ug/L	25	25	U
Arsenic	ug/L	2.8	2.8	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3308405

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Barium	ug/L	170	170	U
Beryllium	ug/L	0.29	0.29	U
Calcium	mg/L	0.072	0.072	U
Cadmium	ug/L	0.24	0.24	U
Cobalt	ug/L	0.28	0.28	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	1.4	1.4	U
Iron	ug/L	140	140	U
Potassium	mg/L	0.14	0.14	U
Magnesium	mg/L	0.44	0.44	U
Manganese	ug/L	0.49	0.49	U
Sodium	mg/L	0.50	0.50	U
Nickel	ug/L	4.4	4.4	U
Lead	ug/L	7.8	7.8	U
Selenium	ug/L	12	12	U
Tin	ug/L	1.8	1.8	U
Vanadium	ug/L	0.58	0.58	U
Zinc	ug/L	7.4	7.4	U

LABORATORY CONTROL SAMPLE: 3308406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	400	350	86	80-120	
Aluminum	ug/L	25000	25000	97	80-120	
Arsenic	ug/L	400	360	91	80-120	
Barium	ug/L	400	370	93	80-120	
Beryllium	ug/L	400	380	94	80-120	
Calcium	mg/L	25	25	97	80-120	
Cadmium	ug/L	400	350	88	80-120	
Cobalt	ug/L	400	350	86	80-120	
Chromium	ug/L	400	370	93	80-120	
Copper	ug/L	400	380	96	80-120	
Iron	ug/L	25000	24000	95	80-120	
Potassium	mg/L	29	28	97	80-120	
Magnesium	mg/L	25	24	94	80-120	
Manganese	ug/L	400	350	88	80-120	
Sodium	mg/L	50	50	100	80-120	
Nickel	ug/L	400	340	85	80-120	
Lead	ug/L	400	340	84	80-120	
Selenium	ug/L	400	340	85	80-120	

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3308406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tin	ug/L	500	490	98	80-120	
Vanadium	ug/L	400	380	96	80-120	
Zinc	ug/L	400	350	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3308407 3308408 Original: T1920671001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	400	340	350	86	87	75-125	1	20	
Aluminum	ug/L	250	25000	24000	25000	95	96	75-125	1	20	
Arsenic	ug/L	0	400	360	360	90	91	75-125	1	20	
Barium	ug/L	8.8	400	370	380	93	94	75-125	1	20	
Beryllium	ug/L	0.045	400	370	380	93	94	75-125	1	20	
Calcium	mg/L	2	25	26	26	94	95	75-125	1	20	
Cadmium	ug/L	0.053	400	350	350	87	88	75-125	1	20	
Cobalt	ug/L	0.1	400	340	340	86	86	75-125	1	20	
Chromium	ug/L	1.3	400	370	370	92	93	75-125	1	20	
Copper	ug/L	0	400	390	390	96	97	75-125	1	20	
Iron	ug/L	360	25000	24000	24000	92	93	75-125	1	20	
Potassium	mg/L	2.4	29	30	31	96	97	75-125	1	20	
Magnesium	mg/L	1.5	25	25	25	91	93	75-125	1	20	
Manganese	ug/L	1.5	400	350	350	87	88	75-125	1	20	
Sodium	mg/L	20	50	68	68	95	95	75-125	0	20	
Nickel	ug/L	0	400	340	340	85	85	75-125	0	20	
Lead	ug/L	0.92	400	330	330	83	83	75-125	0	20	
Selenium	ug/L	0.064	400	340	350	86	86	75-125	1	20	
Tin	ug/L	0.048	400	440	450	111	112	75-125	1	20	
Vanadium	ug/L	0.84	400	380	380	95	96	75-125	1	20	
Zinc	ug/L	8.1	400	360	360	87	87	75-125	1	20	

QC Batch: MSVj/4711 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 12/04/2019 18:31

Associated Lab Samples: T1921060001, T1921060002, T1921060003

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3310406

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Dichlorodifluoromethane	ug/L	0.19	0.19	U
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acrolein (Propenal)	ug/L	1.6	1.6	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
2,2-Dichloropropane	ug/L	0.22	0.22	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
1,1-Dichloropropene	ug/L	0.24	0.24	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
1,3-Dichloropropane	ug/L	0.24	0.24	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Ethylene Dibromide (EDB)	ug/L	0.20	0.20	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3310406

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,3-Dichlorobenzene	ug/L	0.19	0.19	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
1,2-Dibromo-3-Chloropropane	ug/L	3.1	3.1	U
Acetonitrile	ug/L	21	21	U
Allyl Chloride(3-Chloropropene	ug/L	2.1	2.1	U
Propionitrile (Ethyl cyanide)	ug/L	21	21	U
Chloroprene	ug/L	2.0	2.0	U
Methacrylonitrile	ug/L	18	18	U
Isobutyl Alcohol	ug/L	44	44	U
Methyl Methacrylate	ug/L	1.8	1.8	U
Ethyl Methacrylate	ug/L	2.1	2.1	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	83	70-128	
Toluene-d8 (S)	%	81	77-119	
Bromofluorobenzene (S)	%	103	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3310407 3310408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Dichlorodifluoromethane	ug/L	20	17	18	86	91		6		
Chloromethane	ug/L	20	20	23	101	114		12		
Vinyl Chloride	ug/L	20	21	24	105	120	70-130	13	20	
Bromomethane	ug/L	20	25	27	123	134		8		
Chloroethane	ug/L	20	28	30	140	148		6		
Trichlorofluoromethane	ug/L	20	24	27	118	133		12		
Acrolein (Propenal)	ug/L	100	1.6	6.6I	0	7		192		
Acetone	ug/L	20	25	29	127	146		14		
1,1-Dichloroethylene	ug/L	20	24	28	120	139	70-130	15	20	
Iodomethane (Methyl Iodide)	ug/L	20	16	18	79	89		13		
Acrylonitrile	ug/L	20	21	25	103	125		19		
Methylene Chloride	ug/L	20	26	31	129	155		18		
Carbon Disulfide	ug/L	20	24	27	118	134		13		
trans-1,2-Dichloroethylene	ug/L	20	24	27	118	135		14		
1,1-Dichloroethane	ug/L	20	24	27	120	137		14		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3310407 3310408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Vinyl Acetate	ug/L	20	15	12	73	59		21		
2-Butanone (MEK)	ug/L	20	21	25	105	123		15		
cis-1,2-Dichloroethylene	ug/L	20	22	25	109	126	70-130	14	20	
Bromochloromethane	ug/L	20	24	28	123	142		14		
Chloroform	ug/L	20	23	26	116	129	70-130	10	20	
2,2-Dichloropropane	ug/L	20	20	21	100	105		5		
1,2-Dichloroethane	ug/L	20	23	26	117	131		11		
1,1,1-Trichloroethane	ug/L	20	23	25	114	126		10		
1,1-Dichloropropene	ug/L	20	24	27	122	136		11		
Carbon Tetrachloride	ug/L	20	22	25	109	127		15		
Benzene	ug/L	20	23	26	115	132	70-130	14	20	
Dibromomethane	ug/L	20	22	27	111	134		19		
1,2-Dichloropropane	ug/L	20	23	27	114	134		17		
Trichloroethene	ug/L	20	22	28	112	139	70-130	22	20	
Bromodichloromethane	ug/L	20	21	25	107	124		14		
cis-1,3-Dichloropropene	ug/L	20	22	25	108	127		16		
4-Methyl-2-pentanone (MIBK)	ug/L	20	25	29	124	143		14		
trans-1,3-Dichloropropylene	ug/L	20	20	23	98	115		16		
1,1,2-Trichloroethane	ug/L	20	23	27	116	133		13		
Toluene	ug/L	20	17	20	85	99	70-130	15	20	
1,3-Dichloropropane	ug/L	20	17	20	85	99		16		
2-Hexanone	ug/L	20	18	22	91	109		18		
Dibromochloromethane	ug/L	20	17	21	87	105		18		
Ethylene Dibromide (EDB)	ug/L	20	17	20	83	101		19		
Tetrachloroethylene (PCE)	ug/L	20	18	21	88	103	70-130	16	20	
1,1,1,2-Tetrachloroethane	ug/L	20	17	21	85	103		19		
Chlorobenzene	ug/L	20	18	20	89	100	70-130	12	20	
Ethylbenzene	ug/L	20	17	20	87	101	70-130	15	20	
Bromoform	ug/L	20	17	19	83	94		12		
Styrene	ug/L	20	16	20	83	98		17		
1,1,2,2-Tetrachloroethane	ug/L	20	18	19	91	95		5		
1,2,3-Trichloropropane	ug/L	20	16	20	79	98		21		
1,3-Dichlorobenzene	ug/L	20	15	16	75	81	70-130	8	20	
1,4-Dichlorobenzene	ug/L	20	15	16	74	80		7		
1,2-Dichlorobenzene	ug/L	20	15	16	74	82	70-130	10	20	
1,2-Dibromo-3-Chloropropane	ug/L	20	14	15	70	77		9		
Xylene (Total)	ug/L	60	52	61	87	101	70-130	15	20	
1,2-Dichloroethane-d4 (S)	%				81	80	70-128	2		
Toluene-d8 (S)	%				79	81	77-119	2		
Bromofluorobenzene (S)	%				96	97	86-123	1		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3310409 Original: T1921060001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Dichlorodifluoromethane	ug/L	0	2000	1200	59		
Chloromethane	ug/L	0	2000	1700	86		
Vinyl Chloride	ug/L	0	2000	1700	83	70-130	
Bromomethane	ug/L	0	2000	1800	92		
Chloroethane	ug/L	0	2000	1700	86		
Trichlorofluoromethane	ug/L	0	2000	1700	85		
Acrolein (Propenal)	ug/L	0	10000	4800	48		
Acetone	ug/L	6800	2000	23000	797		
1,1-Dichloroethylene	ug/L	0	2000	1700	86	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	2000	1900	94		
Acrylonitrile	ug/L	0	2000	3000	148		
Methylene Chloride	ug/L	0	2000	2000	99		
Carbon Disulfide	ug/L	0	2000	1600	82		
trans-1,2-Dichloroethylene	ug/L	0	2000	1800	89		
1,1-Dichloroethane	ug/L	0	2000	1800	88		
Vinyl Acetate	ug/L	0	2000	2400	122		
2-Butanone (MEK)	ug/L	5900	2000	15000	432		
cis-1,2-Dichloroethylene	ug/L	0	2000	1800	91	70-130	
Bromochloromethane	ug/L	0	2000	2000	98		
Chloroform	ug/L	37	2000	1800	87	70-130	
2,2-Dichloropropane	ug/L	0	2000	1200	61		
1,2-Dichloroethane	ug/L	0	2000	2000	102		
1,1,1-Trichloroethane	ug/L	0	2000	1700	87		
1,1-Dichloropropene	ug/L	0	2000	1800	88		
Carbon Tetrachloride	ug/L	0	2000	1700	87		
Benzene	ug/L	0	2000	1800	92	70-130	
Dibromomethane	ug/L	0	2000	2100	103		
1,2-Dichloropropane	ug/L	0	2000	1800	92		
Trichloroethene	ug/L	0	2000	1700	86	70-130	
Bromodichloromethane	ug/L	0	2000	1800	91		
cis-1,3-Dichloropropene	ug/L	0	2000	1800	89		
4-Methyl-2-pentanone (MIBK)	ug/L	150	2000	3400	165		
trans-1,3-Dichloropropylene	ug/L	0	2000	1900	96		
1,1,2-Trichloroethane	ug/L	0	2000	2200	109		
Toluene	ug/L	27	2000	1800	89	70-130	
1,3-Dichloropropane	ug/L	0	2000	2100	105		
2-Hexanone	ug/L	0	2000	3800	189		
Dibromochloromethane	ug/L	0	2000	2000	99		
Ethylene Dibromide (EDB)	ug/L	0	2000	2200	112		
Tetrachloroethylene (PCE)	ug/L	0	2000	1700	84	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	2000	1800	89		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3310409 Original: T1921060001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	0	2000	1800	88	70-130	
Ethylbenzene	ug/L	0	2000	1800	89	70-130	
Bromoform	ug/L	0	2000	2300	116		
Styrene	ug/L	0	2000	1700	84		
1,1,2,2-Tetrachloroethane	ug/L	0	2000	2700	134		
1,2,3-Trichloropropane	ug/L	0	2000	3100	153		
1,3-Dichlorobenzene	ug/L	0	2000	1800	89	70-130	
1,4-Dichlorobenzene	ug/L	0	2000	1800	88		
1,2-Dichlorobenzene	ug/L	0	2000	1900	95	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	2000	2900	145		
Xylene (Total)	ug/L	0	6000	5400	90	70-130	
1,2-Dichloroethane-d4 (S)	%	83			119	70-128	
Toluene-d8 (S)	%	80			102	77-119	
Bromofluorobenzene (S)	%	102			100	86-123	

QC Batch: MSVj/4713 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 12/04/2019 18:31

Associated Lab Samples: T1921060003

METHOD BLANK: 3310412

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	77	77-125	
Toluene-d8 (S)	%	83	80-121	
Bromofluorobenzene (S)	%	98	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3310413 3310414

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.65	0.73	81	91	70-130	12	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.92	1.3	115	164	70-130	35	30	
1,2-Dichloroethane-d4 (S)	%				77	74	77-125	4		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3310413 3310414

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%				81	83	80-121	3		
Bromofluorobenzene (S)	%				96	98	80-129	2		

MATRIX SPIKE SAMPLE: 3311113 Original: J1915861001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.65	81	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.92	115	70-130	
1,2-Dichloroethane-d4 (S)	%	77			77	77-125	
Toluene-d8 (S)	%	83			81	80-121	
Bromofluorobenzene (S)	%	98			96	80-129	

QC Batch: EXTj/4491 Analysis Method: SW-846 8011

QC Batch Method: SW-846 8011 Prepared: 12/05/2019 07:55

Associated Lab Samples: T1921060001, T1921060002

METHOD BLANK: 3310591

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0062	0.0062	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0060	0.0060	U
Tetrachloro-m-xylene (S)	%	138	64-150	

LABORATORY CONTROL SAMPLE & LCSD: 3310592 3310593

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.29	0.22	117	90	70-130	26	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.32	0.28	126	114	70-130	11	30	
Tetrachloro-m-xylene (S)	%				126	118	64-150	7		

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QUALITY CONTROL DATA

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL DATA QUALIFIERS

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1921060001	19326-UL			SM 4500NO3-F	WCAt/15015
T1921060002	19326-TL			SM 4500NO3-F	WCAt/15015
T1921060001	19326-UL			SM 5210B	WCAt/15024
T1921060002	19326-TL			SM 5210B	WCAt/15024
T1921060001	19326-UL			SM 4500-CN-E	WCAt/15027
T1921060002	19326-TL			SM 4500-CN-E	WCAt/15027
T1921060001	19326-UL			EPA 350.1	WCAt/15032
T1921060002	19326-TL			EPA 350.1	WCAt/15032
T1921060001	19326-UL			SM 2540 C	WCAt/15034
T1921060002	19326-TL			SM 2540 C	WCAt/15034
T1921060001	19326-UL	SW-846 3010A	DGMj/4314	SW-846 6020	ICMj/2185
T1921060002	19326-TL	SW-846 3010A	DGMj/4314	SW-846 6020	ICMj/2185
T1921060001	19326-UL	SW-846 3510C	EXTj/4440	SW-846 8270C	MSSj/2412
T1921060002	19326-TL	SW-846 3510C	EXTj/4440	SW-846 8270C	MSSj/2412
T1921060001	19326-UL			EPA 410.4	WCAt/15062
T1921060002	19326-TL			EPA 410.4	WCAt/15062
T1921060001	19326-UL			SM 4500-S D	WCAt/15064
T1921060002	19326-TL			SM 4500-S D	WCAt/15064
T1921060001	19326-UL	SW-846 3510C	EXTj/4445	EPA 8081	GCSj/3446
T1921060002	19326-TL	SW-846 3510C	EXTj/4445	EPA 8081	GCSj/3446
T1921060001	19326-UL	SW-846 3510C	EXTj/4446	SW-846 8082A	GCSj/3447
T1921060002	19326-TL	SW-846 3510C	EXTj/4446	SW-846 8082A	GCSj/3447

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1921060 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1921060001	19326-UL	SW-846 3510C	EXTj/4447	EPA 8141	GCSj/3448
T1921060002	19326-TL	SW-846 3510C	EXTj/4447	EPA 8141	GCSj/3448
T1921060001	19326-UL	8151	EXTj/4448	EPA 8151	GCSj/3469
T1921060002	19326-TL	8151	EXTj/4448	EPA 8151	GCSj/3469
T1921060001	19326-UL	SW-846 7470A	DGMt/4418	SW-846 7470A	CVAt/1869
T1921060002	19326-TL	SW-846 7470A	DGMt/4418	SW-846 7470A	CVAt/1869
T1921060001	19326-UL			SM 2320B	WCAt/15156
T1921060002	19326-TL			SM 2320B	WCAt/15156
T1921060001	19326-UL			EPA 300.0	WCAt/15184
T1921060002	19326-TL			EPA 300.0	WCAt/15184
T1921060001	19326-UL	SW-846 3010A	DGMt/4444	SW-846 6010	ICPt/2969
T1921060002	19326-TL	SW-846 3010A	DGMt/4444	SW-846 6010	ICPt/2969
T1921060001	19326-UL	SW-846 5030B	MSVj/4711	SW-846 8260B	MSVj/4712
T1921060002	19326-TL	SW-846 5030B	MSVj/4711	SW-846 8260B	MSVj/4712
T1921060003	Trip Blank	SW-846 5030B	MSVj/4711	SW-846 8260B	MSVj/4712
T1921060003	Trip Blank	SW-846 5030B	MSVj/4713	SW-846 8260B (SIM)	MSVj/4714
T1921060001	19326-UL	SW-846 8011	EXTj/4491	SW-846 8011	GCSj/3488
T1921060002	19326-TL	SW-846 8011	EXTj/4491	SW-846 8011	GCSj/3488

Advanced Environmental Laboratories, Inc.

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☐ **Fort Myers:** 13100 Westlinks Terrace, Suite 10 • Fort Myers, FL 33
☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377
☐ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 9
☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.228
☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☒ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

T19210 60

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Nel Shapley
Turn Around Time:	☒ STANDARD ☐ RUSH
Page 1 of 1	

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SLUDF 1501 Omni Way St. Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	App II VOAs+EDB/DBCP	App II SVOAs	8081/8082	8141/8151	App II Metals+Fe,Hg,Na	Anions	Alk/BOD/TDS	NH3/COD	Cyanide	Sulfide	LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE								40 mL Vials	1L Amber	1L Amber	1L Amber	500 mL Plastic	125 mL Plastic	1L Plastic	250 mL Plastic	250 ml Amber	500 mL Plastic	
ANALYSIS REQUIRED																		
								~~HCL~~ Ice *	Ice	Ice	Ice	HNO3	Ice	Ice	H2SO4	NaOH	NaOH/ZnAc	
19326-UL		G	11/21/19	09:15	WW	14		X	X	X	X	X	X	X	X	X	X	001
19326 TL		G	11/21/19	08:30	WW	14		X	X	X	X	X	X	X	X	X	X	002

* HCl reacted with sorb's produced foam. Sample collected without preservative

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked Temperature when received 2.1 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by	Date	Time
1	[signature]	11/21/19	1500	[signature]	11/22/19	1200
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site-Address: _____

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

The samples T1921060001 and T1921060002 were diluted prior to instrumental analysis. The extracts were highly colored and viscous, which indicated the need to digest the samples at a dilution.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 8081

Preparation: SW-846 3510C

IV. Preparation

The extractionist noted that samples T1921060001 and T1921060002 exhibited very high emulsions, which is known to adversely affect the recoveries in a negative fashion. The affected surrogates have been qualified to indicate matrix interference.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Toxaphene in Continuing Calibration Verification (CCV) standards for analytical batch GCSj:3446, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for Tetrachloro-m-xylene and Decachlorobiphenyl in T1921060001 and T1921060002 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

D. Spikes: All acceptance criteria were met.

E. Internal Standard:

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: T1921060

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ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8082A

Preparation: SW-846 3510C

IV. Preparation

All samples in batch GCSj:3447 were Florisil cleaned as per EPA method 3620C.

The extractionist noted that samples T1921060001 and T1921060002 exhibited very high emulsions, which is known to adversely affect the recoveries in a negative fashion. The affected surrogates have been qualified to indicate matrix interference.

The Method Detection Limit (MDL) for all analytes for T1921060001 and T1921060002 were elevated due to difficult sample matrix. Due to matrix interferences, the sample was prepped using a 250mL initial volume, instead of the typical 1000mL initial volume. As a result, the reported MDL is elevated on the final report.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for Tetrachloro-m-xylene and Decachlorobiphenyl in T1921060001 and T1921060002 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

D. Spikes: All acceptance criteria were met.

E. Internal Standard:

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 8141

Preparation: SW-846 3510C

IV. Preparation

All samples in batch GCSj:3448 were Florisil cleaned as per EPA method 3620C.

The extractionist noted that samples T1921060001 and T1921060002 exhibited very high emulsions, which is known to adversely affect the recoveries in a negative fashion. The affected surrogates have been qualified to indicate matrix interference.

The Method Detection Limit (MDL) for all analytes for T1921060001 and T1921060002 were elevated due to difficult sample matrix. Due to matrix interferences, the sample was prepped using a 250mL initial volume, instead of the typical 1000mL initial volume. As a result, the reported MDL is elevated on the final report.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Simazine in Continuing Calibration Verification (CCV) standard for analytical batch GCSj:3448, indicating increased sensitivity. The client samples reported in this batch did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for surrogate Tributylphosphate in T1921060001 and T1921060002 are not applicable. The chromatogram indicated the presence of high background components that masked the surrogate, which prevented adequate resolution for quantitation. Also the samples exhibited very high emulsions during prep which affects the surrogate recoveries. The affected surrogates are qualified to indicate matrix

D. Spikes: All acceptance criteria were met.

E. Internal Standard: The data were reported as is.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 8151

Preparation: 8151

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogates in T1921060001 and T1921060002 are not applicable: 2,4-Dichlorophenylacetic acid. The analysis of the samples required a dilution, which results in an undetected surrogate concentration. The surrogates were qualified as being diluted out.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: The samples T1921060001 and T1921060002 were diluted prior to instrumental analysis. The extracts were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. In addition, the chromatography indicated high concentrations of non-target/background sample matrix interferences.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8270C

Preparation: SW-846 3510C

IV. Preparation

Samples T1921060001 and 002 were extracted at a lower volume due to extremely high non-target background components. The initial volumes of the samples were adjusted to the correct initial volumes and the dilution factor adjusted and accounted for in the final reported result.

Due to the matrix of T1921060001 and 002 the extracts would not concentrate to the required method volume of 1.0mL. The final volume of the extract was adjusted to the correct final volume and the dilution factor adjusted and accounted for in the final reported result.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for all the surrogates in T1921060001 and 002 are not applicable. The analysis of these samples required a dilution, which results in undetected surrogate concentrations. The surrogates were qualified as being diluted out.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: The samples T1921060001 and 002 were diluted prior to instrumental analysis. The extracts were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The spike recovery of Benzene, Trichloroethene, and 1,1-Dichloroethylene for the Laboratory Control Sample Duplicate (LCSD) were outside the upper control criterion. The analytes in question were not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The relative percent difference (RPD) for Trichloroethene between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3310408 in comparison with 3310407. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: T192106001 and T1921060002 were analyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The lower control criterion was exceeded for the following surrogate in 3310414 (LCSD) due to matrix interference: 1,2-Dichloroethane-d4. No target analytes were detected in the samples. The quality of the sample data is not significantly affected as internal standard area counts met criteria. No further corrective action is required.

D. Spikes: The spike recovery of 1,2-Dibromo-3-Chloropropane for the Laboratory Control Sample Duplicate (LCSD) was outside the upper control criterion. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The relative percent difference (RPD) for 1,2-Dibromo-3-Chloropropane between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3310414 in comparison with 3310413. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: T1921060

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ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 4500NO3-F

Preparation: None

IV. Preparation

T1921060001 and 002 were diluted prior to instrumental analysis. The samples were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 4500-CN-E

Preparation: None

IV. Preparation

T1921060001 and 002 were diluted prior to instrumental analysis. The samples were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 4500-S D

Preparation: None

IV. Preparation

T1921060001 and T1921060002 were diluted prior to instrumental analysis.
The samples were highly colored and viscous, which indicated the need to perform a dilution prior to reading on the spectrophotometer so that Sulfide color development could be analyzed. Results may be inaccurate.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: T1921060

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

T1921060001 and 002 were diluted prior to instrumental analysis. The samples were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: