Water Quality Monitoring Report
First 2020 Semi-Annual Event

Trail Ridge Landfill

Trail Ridge Landfill, Inc.

May 18, 2020

PREPARED FOR:

Trail Ridge Landfill, Inc.
5110 US Highway 301
Baldwin, FL 32234

PREPARED BY:

Carlson Environmental Consultants
305 South Main Street
Monroe, North Carolina 28112

STATEMENT OF GEOLOGIC REVIEW

In general accordance with Chapter 62-701, Florida Administrative Code (F.A.C.), Solid Waste Management Facilities, this Groundwater Monitoring Report – Semi-Annual Monitoring Event – February 2020 for the Trail Ridge Landfill, located in Baldwin, Florida, has been reviewed, signed and sealed by a registered Professional Geologist in the State of Florida, and is consistent with standard principles related to groundwater monitoring

5/18/2020

Ken E. Guilbeault, P.G.
Florida License # 2907

Date

CEC

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Appendix A: Laboratory Analytical Results and Field Forms
Appendix B: Compact Disk Containing Report in .PDF Format and ADaPT File

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 Trailridge Landfill, Inc.

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number ( )

(2) WACS Facility ID 33628

(3) DEP Permit Number 0013495-025-SO-01

(4) Authorized Representative's Name Eric Parker Title Environmental Manager

Address 5110 U.S. Highway 301

City Baldwin, FL Zip 32234 County Duval

Telephone Number (904) 748-6006

Email address (if available) eparker1@wm.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.

5/18/20
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Tech Support Service (Pro Tech)

Analytical Lab NELAC / HRS Certification # Florida E87052

Lab Name Advanced Environmental Laboratories, Inc. (AEL)

Address 6681 Southpoint Parkway, Jacksonville, FL 32216

Phone Number (904) 363-9350

Email address (if available) jallen@aellab.com

1 INTRODUCTION

The Trail Ridge Landfill (Site) is owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc. (a Waste Management Company) in accordance with Florida Department of Environmental Protection (FDEP) Operation Permit Number 0013493-025-SO-01 issued June 16, 2014 and minor mods 0013493-028-SO-MM and 0013493-029-SO-MM issued April 5, 2019 and September 16, 2019 respectively. The Permit expires on June 16, 2034. The Site is an active municipal solid waste landfill that serves the City of Jacksonville, Duval County, and Northeast Florida.

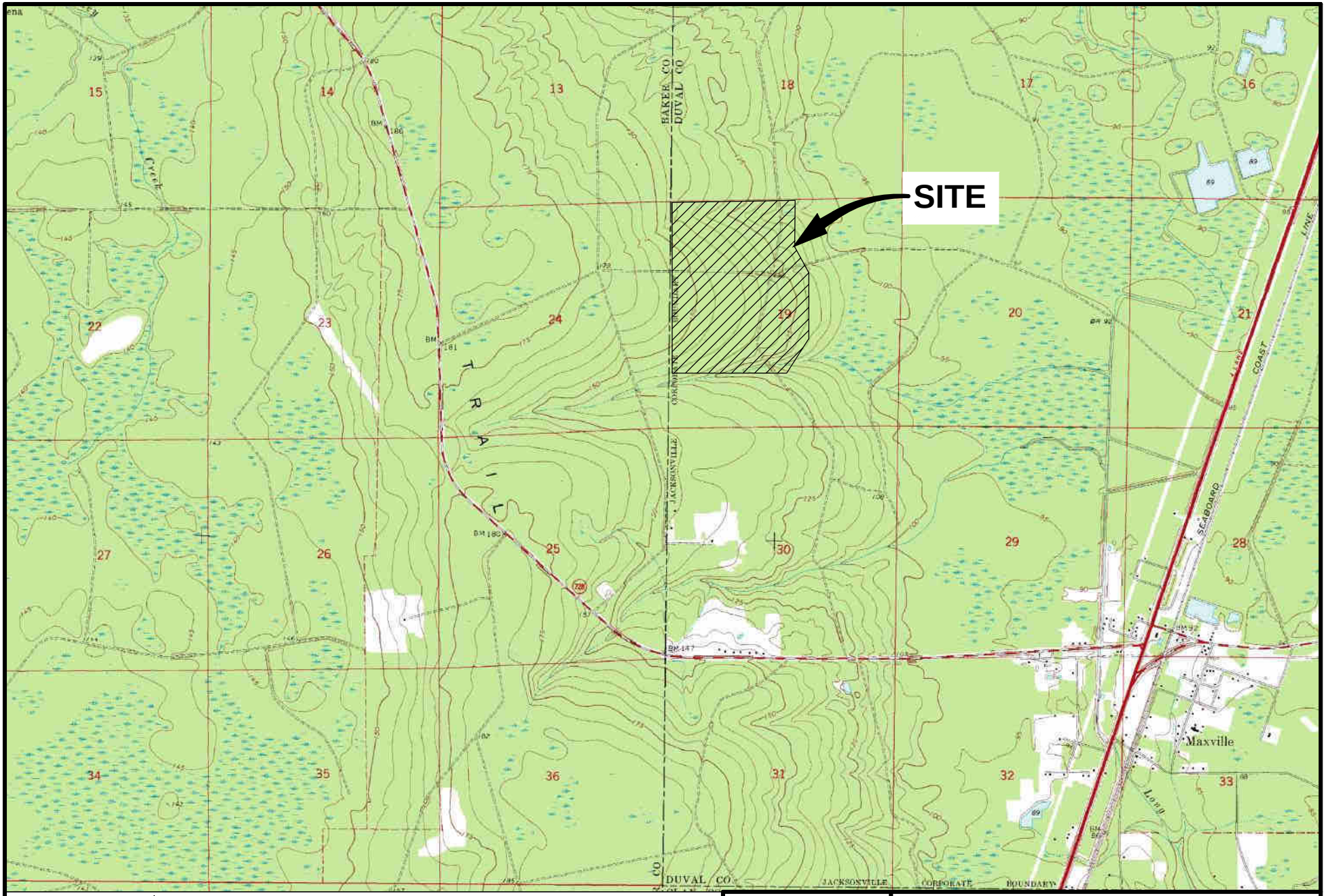
Carlson Environmental Consultants, PC (CEC) has been retained to report the results of semi-annual groundwater and surface water monitoring at the Site in accordance with the Water Quality Monitoring Plan (Appendix 3) of the referenced permit.

This report presents the methods and findings of the first 2020 semi-annual groundwater monitoring event conducted on February 26 27, 28, and March 2, 2020 with a limited resample event conducted March 31, 2020 (Appendix A). An electronic data deliverable (EDD) of the results in "ADaPT format" is attached as Appendix B. This EDD has been verified as uploadable into the latest version of ADaPT.

The following sections include general information concerning the Site history and setting, an evaluation of surficial aquifer groundwater flow, and groundwater and surface water quality conditions at the Site. Laboratory analytical data are summarized, evaluated, and compared to historical data where appropriate.

1.1 Site Location and Description

The Site is located near the town of Baldwin approximately five miles southwest of the intersection of US-301 and I-10 in southwestern Duval County along the border with Baker County, Florida (Figure 1). The Facility is an active municipal solid waste landfill with a total disposal area of approximately 427 acres that accepts waste from the City of Jacksonville and Duval County. The Facility operates a waste tire processing facility and active gas collection system, and the Facility design includes wetland mitigation, a stormwater management system, and environmental monitoring systems for groundwater, surface water, and methane gas (Figure 2). As of this report, waste has been placed in Phases 1-6 only. The stormwater management system for Phases 6-14 has been completed, although vegetation is still filling in for this area. A site location map is provided in Figure 1.



NOTES:

1. BACKGROUND IMAGE FROM USGS 7.5 MINUTE QUADRANGLE; MAXVILLE, FL 1970 (PHOTOINSPECTED 1984.)

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GRAPHIC SCALE (FEET)

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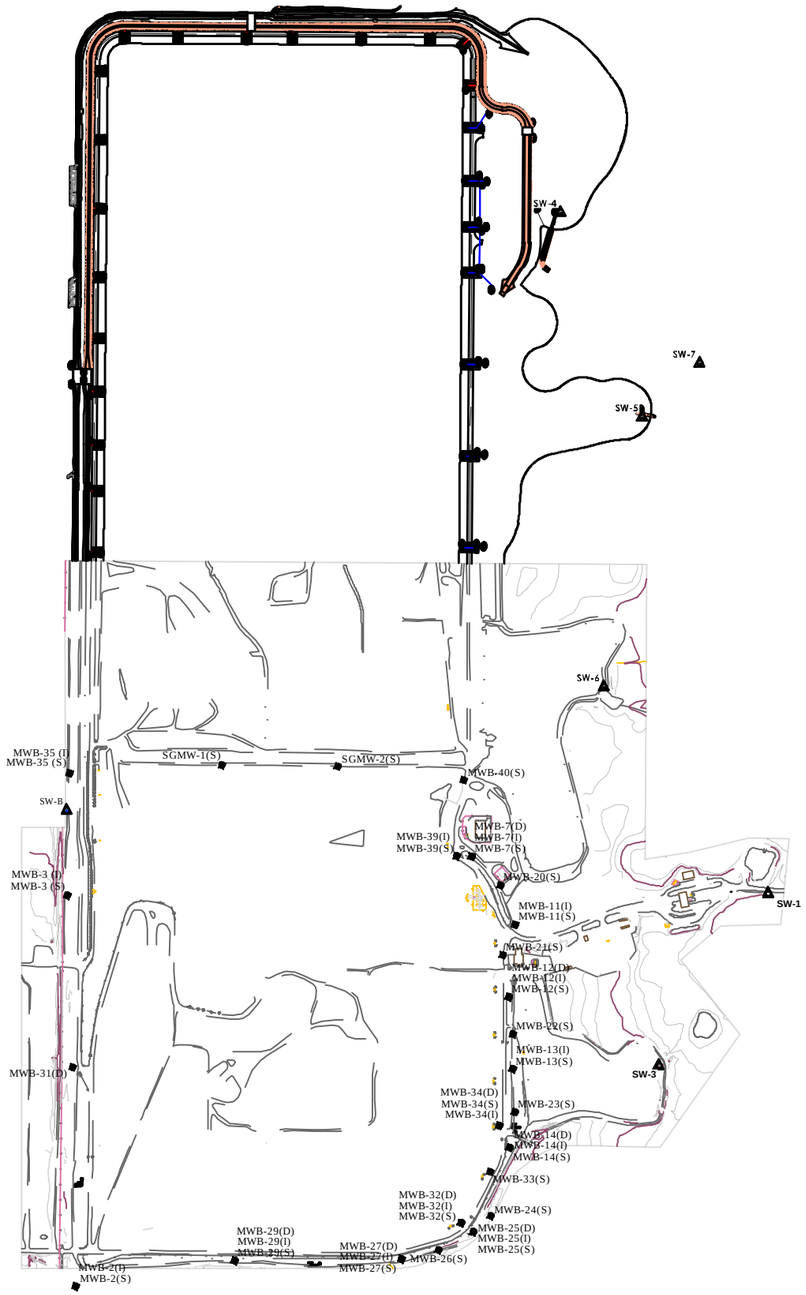
FIGURE 1:
SITE LOCATION
TRAIL RIDGE LANDFILL
JACKSONVILLE, FL



LEGEND

- 2' CONTOURS
- 10' CONTOURS
- MWB-3 — GROUNDWATER MONITORING WELL
  - (S) SHALLOW LEVEL WELL
  - (I) INTERMEDIATE LEVEL WELL
  - (D) DEEP LEVEL WELL
- SW-B — SURFACE WATER SAMPLING POINT

NOTES:

1. THE TOPOGRAPHIC MAP WAS PREPARED BY SOUTHERN RESOURCES MAPPING COORPORATION FROM A PHOTOGRAPHIC FLY OVER COMPLETED JANUARY 25, 2017 AND WAS COMPILED IN FEBRUARY 2017.

2. BASE MAP OF NORTHERN PORTION OF EXPANSION AREA PROVIDED BY CDM AND IS BASED ON CONFORMED CONSTRUCTION DRAWINGS FOR THE EXPANSION AREA RETENTION PONDS. THIS PORTION OF THE MAP IS NOT AN AS-BUILT AND LOCATIONS ARE APPROXIMATE.

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FIGURE 2:
SITE LAYOUT AND SAMPLING LOCATIONS
TRAIL RIDGE LANDFILL
JACKSONVILLE, FL

2 GROUNDWATER ELEVATION DATA

For this semi-annual report, CEC performed the groundwater flow assessment of the surficial aquifer using groundwater depth to water measurements obtained on February 26, 2020. ProTech field personnel measured water levels in Site monitoring wells prior to purging and sampling activities in accordance with procedures described in the facility permit. Water levels were measured at active groundwater monitoring wells at the Site within a 24-hour period to evaluate static groundwater conditions across the entire Site. Field personnel opened the monitoring wells to allow groundwater levels to equilibrate to atmospheric conditions, and then measured the depth to groundwater to within 0.01 feet relative to the top of the inner PVC well casing using an electronic water level indicator. CEC calculated water table elevations at each well to evaluate the general direction of groundwater flow in the uppermost aquifer underlying the Site. The calculations were performed by taking the difference between the measured depth to groundwater and the top of casing elevation surveyed for each well. Table 1 lists the monitoring locations, depths to water, and groundwater elevations.

2.1 Groundwater Elevations and Flow Directions

CEC calculated groundwater elevations based on water levels measured on February 26, 2020, and top of well casing elevations surveyed relative to the National Geodetic Vertical Datum (NGVD) (Table 2). Figures 3, 4, and 5 show shallow, intermediate, and deep potentiometric contours for the surficial aquifer, respectively. Horizontal groundwater flow beneath the Site in the uppermost aquifer is to the east at shallow, intermediate, and deep depths. The vertical groundwater flow is slightly downward on the western side (high ground) and slightly upward on the east side (low ground). The direction of groundwater flow is consistent with measurements from previous monitoring events.

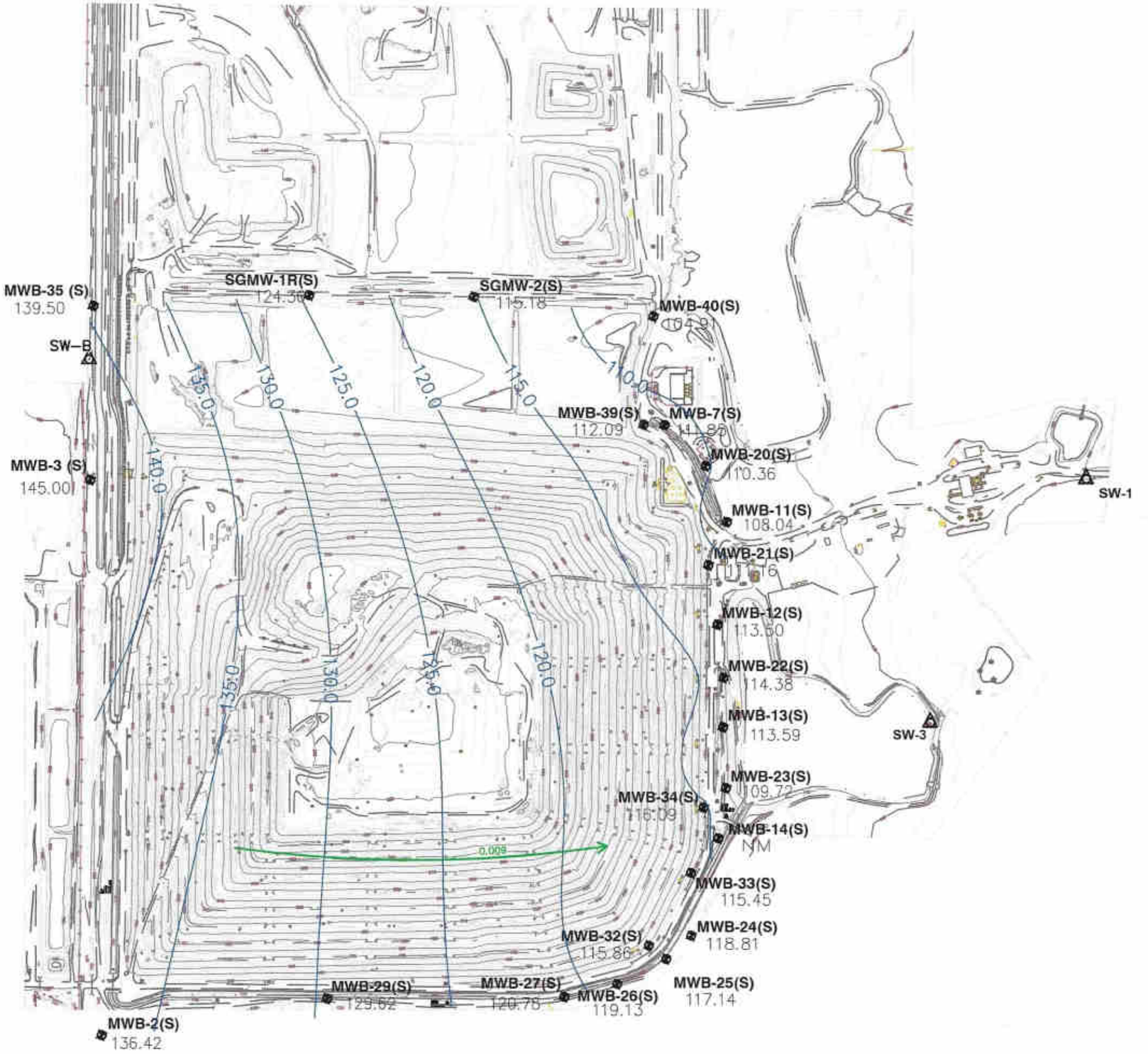
Table 1 - Water Level Measurements
Trail Ridge Landfill, Jacksonville, Florida
February 2020

Well ID	TOC Elevation	Depth to Water	Groundwater Elevation
	(ft MSL)	(ft BTOC)	(ft MSL)
Shallow Wells			
MWB-2(S)	146.64	10.22	136.42
MWB-3(S)	154.38	9.38	145.00
MWB-7(S)	123.29	11.44	111.85
MWB-11(S)	120.81	12.77	108.04
MWB-12(S)	124.63	11.13	113.50
MWB-13(S)	126.05	12.46	113.59
MWB-14(S)	126.05	NM	NM
MWB-20(S)	121.01	10.65	110.36
MWB-21(S)	122.84	11.68	111.16
MWB-22(S)	126.97	12.59	114.38
MWB-23(S)	125.34	15.62	109.72
MWB-24(S)	126.04	7.23	118.81
MWB-25(S)	125.22	8.08	117.14
MWB-26(S)	126.55	7.42	119.13
MWB-27(S)	128.42	7.64	120.78
MWB-29(S)	138.02	8.4	129.62
MWB-32(S)	124.64	8.78	115.86
MWB-33(S)	125.90	10.45	115.45
MWB-34(S)	125.78	9.69	116.09
MWB-35(S)	147.79	8.29	139.50
MWB-39(S)	126.85	14.76	112.09
MWB-40(S)	115.41	10.50	104.91
SGMW-1(S)R	140.30	15.94	124.36
SGMW-2(S)	130.55	15.37	115.18
Intermediate Wells			
MWB-2(I)	145.73	12.73	133.00
MWB-3(I)	151.86	15.4	136.46
MWB-7(I)	121.53	8.2	113.33
MWB-11(IR)	120.43	15.65	104.78
MWB-12(I)	124.62	10	114.62
MWB-13(I)	125.98	17.7	108.28
MWB-14(I)	125.92	11.40	114.52
MWB-25(I)	124.03	7.41	116.62
MWB-27(I)	128.63	8.83	119.80
MWB-29(I)	138.08	9.28	128.80
MWB-32(I)	124.79	9.02	115.77
MWB-34(I)	125.80	10.12	115.68
MWB-35(I)	147.93	10.26	137.67
MWB-39(I)	126.76	13.1	113.66
Deep Wells			
MWB-7(D)	121.65	4.61	117.04
MWB-12(D)	124.56	8.02	116.54
MWB-14(D)	125.87	11.43	114.44
MWB-25(D)	124.64	8	116.64
MWB-27(D)	128.88	9.21	119.67
MWB-29(D)	138.18	9.39	128.79
MWB-31(D)	156.15	20.01	136.14
MWB-32(D)	124.93	9.19	115.74
MWB-34(D)	125.92	10.31	115.61

Notes:

TOC - top of casing; ft BTOC - feet below top of casing; ft MSL - feet above mean sea level; NM - Not Measured

Depth to water measurements collected by ProTech on February 26, 2020. Top of casing elevations based on groundwater well survey data provided in August 2017 by Golder, CDM, and Pro-Tech and CEC 2018.



LEGEND

- 2' CONTOURS
- 10' CONTOURS
- POTENTIOMETRIC CONTOURS AT 5 FOOT ELEVATION INTERVALS
- 0.01 → GROUNDWATER FLOW DIRECTION WITH HORIZONTAL FLOW GRADIENT
- MWB-3(S) GROUNDWATER MONITORING WELL
- 148.17 WATERTABLE ELEVATION (IN FEET AMSL)
- SW-B SURFACE WATER SAMPLING POINT

NOTES:

1. THE TOPOGRAPHIC MAP WAS PREPARED BY SOUTHERN RESOURCES MAPPING COORPORATION FROM A PHOTOGRAPHIC FLY OVER COMPLETED JANUARY 25, 2017 AND WAS COMPILED IN FEBRUARY 2017.

2. MWB-14(S)* WAS UNABLE TO BE READ DUE TO A PUMP IN THE MONITORING WELL AT OR ABOVE THE WATER TABLE.

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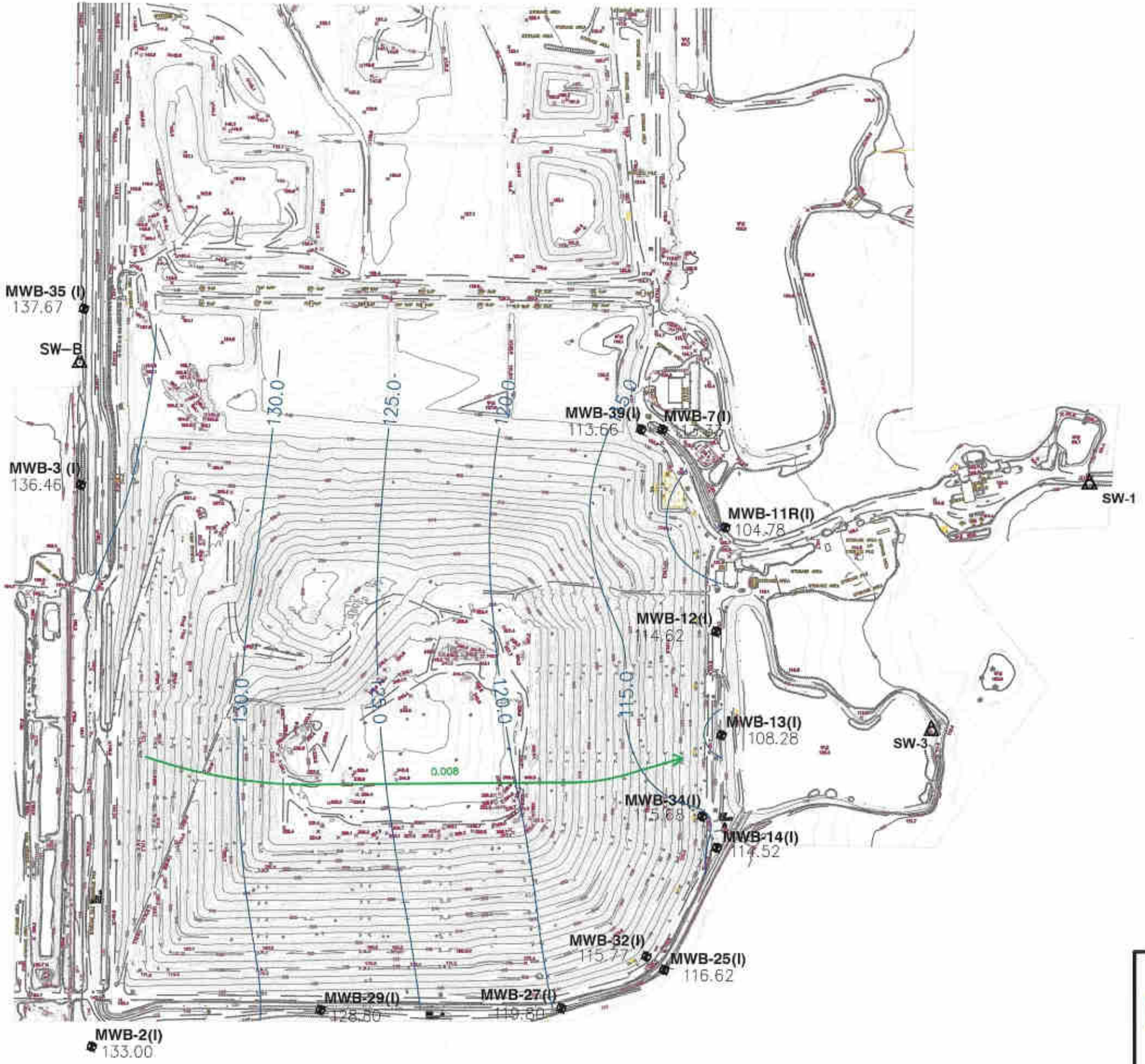
GRAPHIC SCALE (FEET)

KENNETH GUILBEAULT LICENSE No. 2907 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

5/18/2020

CEC

FIGURE 3:
SHALLOW WELLS
POTENTIOMETRIC MAP 02/26/2020
TRAIL RIDGE LANDFILL
JACKSONVILLE, FL



LEGEND

- 2' CONTOURS
- 10' CONTOURS
- POTENTIOMETRIC CONTOURS AT 5 FOOT ELEVATION INTERVALS
- 0.01 → GROUNDWATER FLOW DIRECTION WITH HORIZONTAL FLOW GRADIENT
- MWB-3(I) — GROUNDWATER MONITORING WELL
- 148.17 — WATERTABLE ELEVATION (IN FEET AMSL)
- SW-B — SURFACE WATER SAMPLING POINT

NOTES:

1. THE TOPOGRAPHIC MAP WAS PREPARED BY SOUTHERN RESOURCES MAPPING COORPORATION FROM A PHOTOGRAPHIC FLY OVER COMPLETED JANUARY 25, 2017 AND WAS COMPILED IN FEBRUARY 2017.

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5/18/2020

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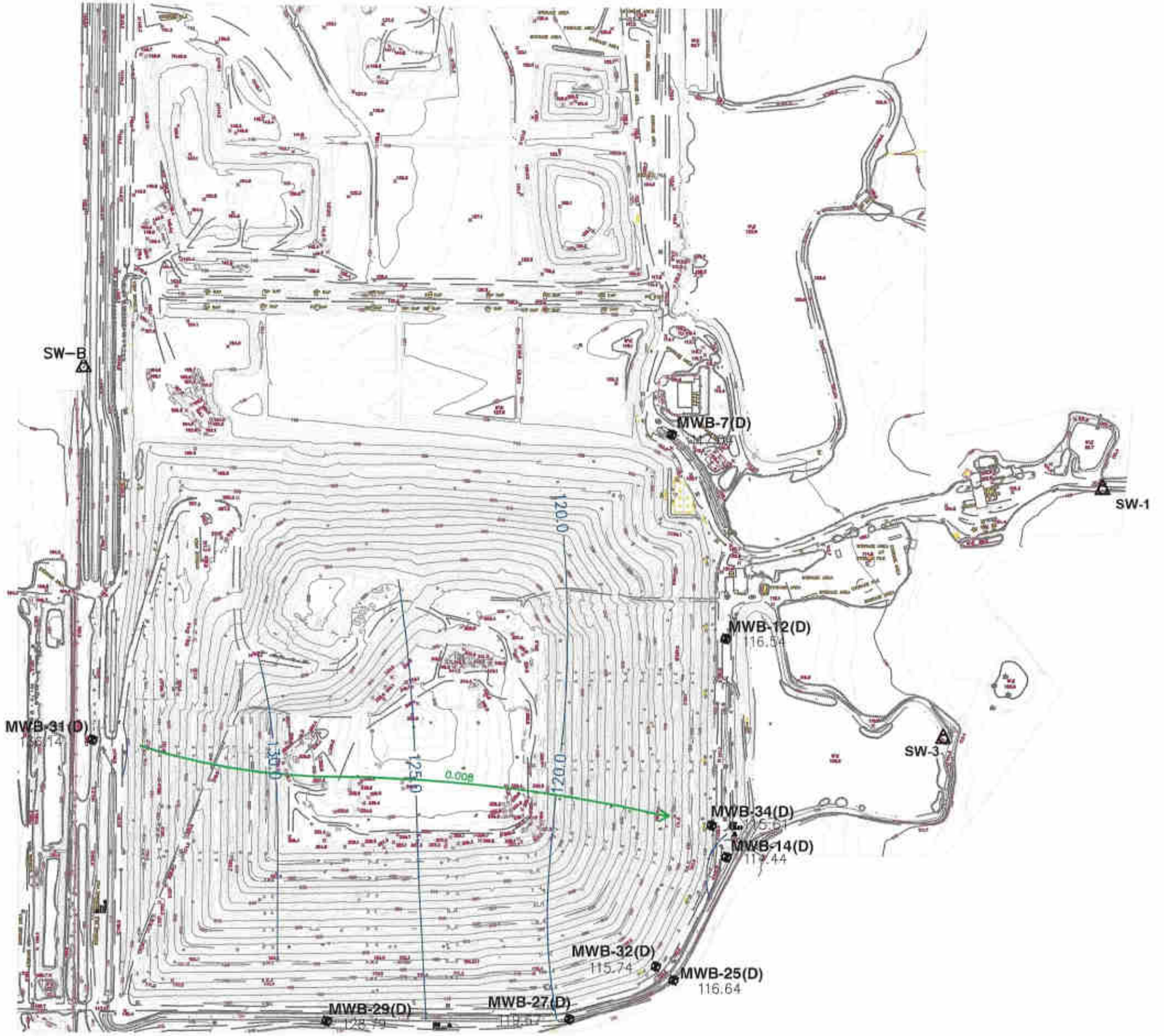
FIGURE 4:
INTERMEDIATE WELLS
POTENTIOMETRIC MAP 02/26/2020
TRAIL RIDGE LANDFILL
JACKSONVILLE, FL



LEGEND

	2' CONTOURS
	10' CONTOURS
	POTENTIOMETRIC CONTOURS AT 5 FOOT ELEVATION INTERVALS
0.01 →	GROUNDWATER FLOW DIRECTION WITH HORIZONTAL FLOW GRADIENT
MWB-7(D)	GROUNDWATER MONITORING WELL
148.17	WATERTABLE ELEVATION (IN FEET AMSL)
SW-B	SURFACE WATER SAMPLING POINT

NOTES:

1. THE TOPOGRAPHIC MAP WAS PREPARED BY SOUTHERN RESOURCES MAPPING COORPORATION FROM A PHOTOGRAPHIC FLY OVER COMPLETED JANUARY 25, 2017 AND WAS COMPILED IN FEBRUARY 2017.

N

0 500 1000

GRAPHIC SCALE (FEET)

KENNETH GUILBEAULT
LICENSE
No. 2907
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

5/18/2020

CEC

FIGURE 5:
DEEP WELLS
POTENTIOMETRIC MAP 02/26/2020
TRAIL RIDGE LANDFILL
JACKSONVILLE, FL

3 MONITORING PROGRAM

Groundwater and surface water monitoring events are conducted concurrently on a semi-annual basis prior to March 30th and September 30th of each year. Figure 2 shows the Site layout and groundwater monitoring well and surface water sampling locations. Semi-annual reporting of the results of groundwater and surface water sampling is performed in accordance with the Site's solid waste permit, water quality monitoring plan, and rule 62-701.510 (8)(a).

3.1 Groundwater Monitoring Program

The current Site groundwater monitoring system consists of twenty-nine (29) groundwater monitoring wells screened at shallow (S) and intermediate (I) depths within the uppermost, surficial aquifer. Additionally, there are eighteen (18) piezometers screened at the shallow (S), intermediate (I), and deep (D) depths within the uppermost surficial aquifer used for monitoring groundwater levels at the site. The background and compliance wells are listed in Table 2. Table 3 lists the construction detail summary for the monitoring wells and piezometers comprising the monitoring system.

Table 2 Active Surficial Aquifer Monitoring Wells
at the Trail Ridge Landfill

Upper Surficial Aquifer Zone	Intermediate Surficial Aquifer Zone	Deep Surficial Aquifer Zone
Background Monitoring Wells		
MWB-2S	MWB-2I	
MWB-3S	MWB-3I	
Compliance/Detection Monitoring Wells		
MWB-11S	MWB-11IR	
MWB-12S	MWB-12I	
MWB-13S	MWB-13I	
MWB-20S		
MWB-21S		
MWB-22S		
MWB-27S	MWB-27I	
MWB-29S	MWB-29I	
MWB-32S	MWB-32I	
MWB-33S		
MWB-34S	MWB-34I	
MWB-35S	MWB-35I	
MWB-39S	MWB-39I	
MWB-40S		
SGMW-1SR		
SGMW-2S		
Piezometers (Water Level Only)		
MWB-7S	MWB-7I	MWB-7D
		MWB-12D
MWB-14S	MWB-14I	MWB-14D
MWB-23S		
MWB-24S		
MWB-25S	MWB-25I	MWB-25I
MWB-26S		
		MWB-27D
		MWB-29D
		MWB-31D
		MWB-32D
		MWB-34D

Notes:

1. Wells listed on a single row of the table are located in a single cluster of wells.

Table 3 - Existing Monitoring Well Details
Trail Ridge Landfill, Jacksonville, FL

Well ID	Well Designation[1]	Monitored Phase[1]	Approximate State Plane Coordinates (ft)[1]		Well Diameter[1]	Total Well Depth[1]	Top of Casing Elevation (ft TOC)[2]	Well Screen Interval[2]
			Easting (X)	Northing (Y)	(in)	(ft bls)	(ft msl)	(ft below TOC)
MWB-2(S)	Background	Phases 3/4/5	324,826	2,141,385	2	17.5	146.64	5.04-20.4
MWB-3(S)	Background	Phases 1/2	324,772	2,143,945	2	18	154.38	5.54-20.54
MWB-7(S)	Water Levels Only		327,418	2,144,201	2	16.5	123.29	4.19-19.19
MWB-11(S)	Compliance	Phase I	327,704	2,143,755	2	18	120.81	5.31-20.31
MWB-12(S)	Compliance	Phase I	327,662	2,143,281	2	25	124.63	11.73-26.73
MWB-13(S)	Compliance	Phase 3/4	327,688	2,142,808	2	24.6	126.05	11.56-26.56
MWB-14(S)	Water Levels Only		327,667	2,142,295	2	16.5	126.05	4.15-19.15
MWB-20(S)	Compliance	Phase I	327,608	2,144,012	2	18	121.01	5.11-20.11
MWB-21(S)	Compliance	Phase I	327,621	2,143,556	2	18	122.84	4.84-19.84
MWB-22(S)	Compliance	Phase I	327,690	2,143,036	2	25	126.97	12.47-27.47
MWB-23(S)	Water Levels Only		327,701	2,142,527	2	25	125.34	12.84-27.84
MWB-24(S)	Water Levels Only		327,543	2,141,846	2	16.5	126.04	5.34-20.34
MWB-25(S)	Water Levels Only		327,428	2,141,740	2	17.2	125.22	5.32-20.32
MWB-26(S)	Water Levels Only		327,201	2,141,623	2	16.5	126.55	3.65-18.65
MWB-27(S)	Compliance	Phase 5	326,960	2,141,564	2	16.3	128.42	3.32-18.32
MWB-29(S)	Compliance	Phase 5	325,866	2,141,554	2	16.5	138.02	4.02-19.02
MWB-32(S)	Detection	Phase 5	327,348	2,141,801	2	22.0	124.64	14.90 to 19.90
MWB-33(S)	Detection	Phase 3/4	327,541	2,142,136	2	22.3	125.90	10.30 to 20.30
MWB-34(S)	Detection	Phase 3/4	327,599	2,142,438	2	20.0	125.78	13.36 to 18.36
MWB-35(S)	Background	Phases 6/7	324,786	2,144,747	2	15	147.79	10.00 to 15.00
MWB-39(S)	Detection	Phase 6	327,321	2,144,202	2	21	126.85	11.00 to 21.00
MWB-40(S)	Detection	Phase 6	327,367	2,144,702	2	21	115.41	11.00 to 21.00
SGMW-1(S)R	Temp. Detection	Phase 6	325,783	2,144,798	2	15	140.30	5.00 to 15.00
SGMW-2(S)	Temp. Detection	Phase 6	326,540	2,144,792	2	15	130.55	5.00 to 15.00
MWB-2(I)	Background	Phases 3/4/5	324,812	2,141,383	2	59.8	145.73	56.19-61.69
MWB-3(I)	Background	Phases 1/2	324,788	2,143,973	2	60	151.86	55.56-60.86
MWB-7(I)	Water Levels Only		327,425	2,144,196	2	63.3	121.53	59.82-65.12
MWB-11(I)	Compliance	Phase I	327,687	2,143,758	2	60	120.43	56.4-61.9
MWB-12(I)	Compliance	Phase I	327,664	2,143,273	2	69.6	124.62	65.92-71.42
MWB-13(I)	Compliance	Phase 3/4	327,687	2,142,802	2	58.6	125.98	55.48-60.48
MWB-14(I)	Water Levels Only		327,668	2,142,306	2	60	125.92	57.52-62.52
MWB-25(I)	Water Levels Only		327,442	2,141,746	2	58.3	124.03	55.23-60.23
MWB-27(I)	Compliance	Phase 5	326,945	2,141,567	2	60.1	128.63	57.23-62.23
MWB-29(I)	Compliance	Phase 5	325,871	2,141,554	2	60	138.08	57.68-62.68
MWB-32(I)	Detection	Phase 5	327,393	2,141,831	2	62.2	124.79	54.56 to 64.56
MWB-34(I)	Detection	Phase 3/4	327,598	2,142,433	2	60	125.80	43.95 to 53.95
MWB-35(I)	Background	Phases 6/7	324,786	2,144,747	2	60	147.93	50.00 to 60.00
MWB-39(I)	Detection	Phase 6	327,321	2,144,202	2	60	126.76	55.00 to 60.00
MWB-7(D)	Water Levels Only					130.32[3]	121.65	111.63-116.63
MWB-12(D)	Water Levels Only						124.56	109.28-114.68
MWB-14(D)	Water Levels Only					111.47[3]	125.87	103.47-108.47
MWB-25(D)	Water Levels Only						124.64	103.54-108.54
MWB-27(D)	Water Levels Only						128.88	104.78-109.78
MWB-29(D)	Water Levels Only						138.18	106.78-111.78
MWB-31(D)	Water Levels Only						156.15	126.65-131.65
MWB-32(D)	Water Levels Only						124.93	98.81 to 108.81
MWB-34(D)	Water Levels Only						125.92	90.78 to 100.78

1. From Appendix G, Water Quality Monitoring Program for the Trail Ridge Landfill, CDM 2014 unless otherwise noted.
2. From February 2017 Event - Semiannual Groundwater and Surface Water Monitoring Report, Golder, 2017.
3. From Pro-Tech, provided August 2017.

The current permit requires semi-annual sampling of the background and detection shallow zone monitoring wells for the field and laboratory parameters listed below.

Field Parameters

- Static Water Level (before purging)
- Specific Conductivity
- pH
- Dissolved Oxygen
- Turbidity
- Temperature
- Color and sheens by observation
- ORP

Laboratory Parameters

- Chlorides
- Nitrate
- Total Dissolved Solids (TDS)
- Iron
- Sodium
- Mercury
- Ammonia – N, Total
- Parameters listed in the 1991 version of 40 CFR 258, Appendix I

The current permit requires semi-annual sampling of the background and detection intermediate zone monitoring wells for the field and laboratory parameters listed below.

Field Parameters

- Static Water Level (before purging)
- Specific Conductivity
- pH
- Dissolved Oxygen
- Turbidity
- Temperature
- ORP

Laboratory Parameters

- Chlorides
- Nitrate
- Total Dissolved Solids (TDS)
- Iron
- Sodium
- Ammonia – N, Total

If the results of the analysis for the intermediate zone monitoring wells indicates that leachate is impacting groundwater (elevated concentrations of the sampled constituents), then the well(s) in question will be sampled in the next sampling event for the parameters listed in 62-701-510 (7)(a), FAC.

3.2 Surface Water Monitoring Program

The Site surface water monitoring system consists of seven surface water monitoring locations: SW-1, SW-3, SW-4, SW-5, SW-6, SW-7 and SW-B (Figure 2). SW-4 monitors the new retention pond associated with an interceptor ditch which is designed to capture shallow groundwater and surface water migrating on to the Trail Ridge property from the west. SW-5 and SW-6 monitor the new retention pond that captures runoff from the expansion areas (Phases 6-14). SW-7 is a point that is further downgradient of the ponds. SW-B is intended to be a background water quality sampling point and is located in the outer interceptor ditch on the southwestern side of the expansion area.

The current permit requires semi-annual sampling of the surface water locations for the field and laboratory parameters listed below.

Field Parameters

- Static Water Level (before purging)
- Specific Conductivity
- pH
- Dissolved Oxygen
- Turbidity
- Temperature
- Color and sheens by observation
- ORP

Laboratory Parameters

- Unionized Ammonia as N
- Total Hardness as CaCO3
- Biochemical Oxygen Demand (BOD_5)
- Copper
- Iron
- Mercury
- Nitrate/Nitrogen
- Zinc
- Total Dissolved Solids (TDS)
- Total Organic Carbon (TOC)
- Fecal Coliform
- Total Phosphorus
- Chlorophyll-a
- Total Nitrogen
- Chemical Oxygen Demand (COD)
- Total Suspended Solids (TSS)
- Parameters listed in the 1991 version of 40 CFR 258, Appendix I

3.3 Sample Collection Analysis

Groundwater and surface water sampling was conducted in accordance with F.A.C. Chapter 62-160 and FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01). ProTech field personnel collected groundwater and surface water samples for laboratory analysis from monitoring locations listed in Sections 3.1 and 3.2 on February 26, 27, 28, and March 2, 2020, with a limited resample event conducted March 31, 2020.

Groundwater monitoring wells that were sampled were purged with dedicated QED bladder pumps with Teflon-lined tubing extending to the top of the well casing. Wells were purged using low-flow sampling methods; a minimum of one well volume was purged prior to stabilization for wells where the water table is located within the well screen. Field parameters including static water level, pH, specific conductance, temperature, turbidity, dissolved oxygen, oxidation-reduction potential and color/sheen (by observation) were recorded during purging and prior to sampling. Once purging was complete, ProTech field personnel collected groundwater samples from the dedicated pumps and tubing in laboratory-provided containers, and placed the samples in coolers with ice. On March 2, 2020, surface water samples were collected from the surface water monitoring points using a laboratory-provided container. Instrument calibration records (FD 9000-8) and completed groundwater sampling logs (FD 9000-24) are provided along with the laboratory report in Appendix A.

Advanced Environmental Laboratories, Inc. (AEL), a Florida-certified laboratory (DOH Certification #E82001[AEL-G] and #E82574[AEL-JAX] [FL NELAC Certification]) analyzed groundwater and surface water samples collected in February 26, 27, 28, and March 2, 2020, with a limited resample event conducted on March 31, 2020 for the parameters identified in Section II and Section III, respectively, of the facility permit Water Quality Monitoring Plan.

4 WATER QUALITY MONITORING RESULTS

This section summarizes the results of the groundwater and surface water quality sampling for the first semi-annual sampling event performed February 26, 27, 28, and March 2, 2020 with a limited resample event conducted March 31, 2020.

4.1 Quality Assurance and Quality Control (QA/QC) Results

ProTech field personnel submitted the samples with trip blanks in coolers containing volatile organic compound (VOC) samples to AEL for analysis. The samples were received in good condition, properly preserved, and at proper temperatures. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), and matrix spike/matrix spike duplicates (MS/MSD). The QA/QC results for the laboratory reports associated with groundwater and surface water monitoring points from AEL Report J2002766 are summarized below:

- Several analytes were detected between method detection limits (MDLs) and practical quantitation limits (PQLs); these detections were qualified with an "I."
- Due to background analytes present in the matrtix, the proper quantitaion of the Scandium and Yttrium internal standards in J200266021 were obstructed. In order to separate out and return the internal standards to within acceptance limits, this sample was analyzed at a dilution.
- The matrix spike (MS) recoveries of Barium, Calcium, and Magnesium for J2002766022 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Matrix Spike Duplicate (MSD) were acceptable, which indicates the analytical batch was in control. . No further corrective action is required.
- The matrix spike recovery of NH3 for J2002766004 and J2002766029 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.
- The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of J2002766018 was outside control criteria: NH3. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the MSD and associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.
- The matrix spike recovery of NH3 for J2002766018 and J2002766040 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.
- The matrix spike recoveries of Chloride and Nitrate for J2002766006 were outside control criteria due. 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 accordingly.
- Other QA/QC issues were not identified; therefore, the remaining results from the February 2020 event are considered acceptable without qualification.

4.2 Surficial Aquifer Groundwater Quality

The groundwater quality detections and exceedances of the primary or secondary drinking water standards are summarized in Tables 4 and 5. In accordance with Chapter 62-701, FAC, groundwater results were compared to their respective PDWS or secondary drinking water standard (SDWS) established in Chapter 62-550, FAC and incorporated via reference in Chapter 62-520, FAC. For this routine groundwater monitoring report, groundwater cleanup target levels (GCTLs) in Rule 62-777, FAC, were used for constituents that do not have a PDWS or SDWS to evaluate if a parameter is significantly above background levels. GCTLs are used as a screening tool for potential anomalies in the concentration data that may require further consideration or review. Appendix A includes the laboratory analytical data and field forms.

4.2.1 Metals Exceedances

Iron at some wells exceeded the applicable standards. These parameters are discussed below.

4.2.1.1 Iron

The concentration of iron in the groundwater at the Site in the shallow and intermediate surficial aquifer ranged from non-detected to 4,200 micrograms per liter (µg/L) during the first 2020 semi-annual sampling event. Detectable iron concentrations exceeded the SDWS of 300 µg/L in

- Background monitoring wells MWB-2S, MWB-2I, MWB-3S, and MWB-3I
- Shallow Wells: MWB-11S, MWB-12S, MWB-13S, MW-21S, MWB-32S, MWB-33S, MWB-34S, MWB-39S, MWB-40S, SGMW-1SR, and SGMW-2S
- Intermediate Wells: MWB-13I, MWB-27I, MWB-29I, MWB-34I, and MWB-35I

The iron exceedances during the February 2020 sampling event were consistent with historical data. Based on this data, it appears that the presence of iron in the groundwater at most wells is not directly related to the landfill operations, but is related to the dissolution of naturally-occurring iron from the soil.

4.2.1.1 Vanadium

Vanadium was detected in detection well MWB-13S (57 µg/L). The detection at MWB-13S was consistent with historical concentrations.

4.2.2 Inorganic Parameters Exceedances

TDS and pH at some wells exceeded the applicable standards. These parameters are discussed below.

4.2.2.1 TDS

The FDEP SDWS of 500 mg/L for TDS was exceeded at detection well MWB-34S (540 mg/L). The SDWS exceedance for total dissolved solids (TDS) has been historically detected and reported to FDEP.

Table 4. Summary of Shallow Groundwater Quality Analytical Results (Detected Parameters Only)
Trail Ridge Landfill, February 2020

Parameter	MCL	Standard	Units	MWB2S	MWB-3S	MWB-11S	MWB12S	MWB13S	MWB20S	MWB21S	MWB22S	MWB27S	MWB29S	MWB-32S	MWB-33S	MWB-34S	MWB-35S	MWB-39S	MWB-39S	MWB-40S	SGMW-1SR	SGMW-2S
Volatile Organic Compounds																			Resample			
2-Hexanone	280	GCTL	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	---	9.5	0.71 U	0.71 U
4-Methyl-2-pentanone	560	GCTL	ug/L	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	---	1.4	0.47 U	0.47 U
Benzene	1	PDWS	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.76 I	---	0.16 U	0.16 U	0.16 U
Chloromethane	2.7	GCTL	ug/L	2.3	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	---	0.21 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	70	PDWS	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.6 I	---	0.24 U	0.24 U	0.24 U
Toluene	40	SDWS	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	---	7	0.23 U	0.23 U
Vinyl Chloride	1	PDWS	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.1	0.20 U	0.2 U	0.2 U	0.2 U
Metals																						
Antimony	6	PDWS	ug/L	0.17 I	0.11 U	0.12 I	0.46 I	0.35 I	0.25 I	0.14 I	0.24 I	0.46 I	0.35 I	0.27 I	0.24 I	0.59 I	0.11 U	0.11 U	---	0.42 I	0.11 U	0.11 U
Barium	2000	PDWS	ug/L	7.7 I	12	43	5.3 I	11 I	4.5 I	28	3 U	8 I	7.2 I	13	4.1	2.6 I	1 U	15	---	54	140	86
Chromium	100	PDWS	ug/L	5 U	2 U	2 U	5 U	40	5.9 I	5 U	5 U	5 U	5 U	2.6 I	2 U	2 U	2 U	2 U	---	2 U	9.4	7.4 I
Copper	1000	SDWS	ug/L	10 U	4 U	4 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 U	4.4 I	5.5 I	4 U	4 U	---	4 U	4.1 I	4 U
Iron	300	SDWS	ug/L	800	410	910	700 I	4200	200 U	430 I	200 U	200 U	270 I	460	350 I	440	100 U	580	---	790	2600	770
Lead	15	PDWS	ug/L	15	3 U	3 U	3 U	3.1 I	3.1 I	5.5 I	3 U	3 I	3 U	3 U	3 U	3 U	3 U	3 U	---	3 U	3 U	3 U
Mercury	2	PDWS	ug/L	0.077 I	0.011 U	0.011 U	0.021 I	0.037 I	0.033 I	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	---	0.011 U	0.011 U	0.017 I
Nickel	100	PDWS	ug/L	10 U	6 U	6 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6 U	6 U	6 U	6 U	6 U	---	6.5 I	14 I	6 U
Selenium	50	PDWS	ug/L	0.58 U	0.58 U	0.58 U	16	5.5	1.7 I	0.58 U	0.58 U	1.1 I	0.58 U	1.9 I	2.3 I	3.6 I	0.58 U	0.58 U	---	0.63 I	0.58 U	2.9 U
Sodium	160	PDWS	mg/L	1.9 I	3	18	17	68	45	8.6	59	31	16	5.4	8.6	68	2.1	32	---	42	14	3.7
Thallium	2	PDWS	ug/L	0.057 U	0.057 U	0.057 U	0.057 U	0.085 I	0.057 U	0.066 I	0.057 U	0.057 U	0.15 I	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	---	0.057 U	0.057 U	0.057 U
Vanadium	49	GCTL	ug/L	3.3 I	1 U	1.7 I	30	57	14	2 U	3.9 I	17	6.8 I	8.8	15	36	1 U	1.2 I	---	6.6	4.3	16
General Chemistry																						
Ammonia (N)	2.8	GCTL	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.82	1.7	0.04 U	0.12	0.04 U	0.38	0.4	2.6	0.04 U	1.7	---	2.6 J	0.04 U	0.04 U
Chloride	250	SDWS	mg/L	1.3 I	5.5	35	28	190	85	19	98	49	24	9.9	16	160	3.1 I	71	---	74	51	5 I
Methane	NS	NS	ug/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2330	---	---	---
Nitrate (N)	10	PDWS	mg/L	0.18 I	0.12 I	0.14 I	0.2 I	0.32 I	1	0.31 I	0.12 I	0.18 I	0.16 I	0.15 I	0.53	0.76	0.12 I	0.12 I	---	0.18 I	0.12 I	0.12 I
Residues- Filterable (TDS)	500	SDWS	mg/L	93	45	130	220	470	260	93	370	300	130	120	130	540	55	250	---	210	180	46
Field Parameters																						
Dissolved Oxygen			mg/L	2	0.7	0.3	1.3	1.3	0.3	0.6	0.2	0.4	0.8	0.1	0.1	0.1	0.1	0.3	0.5	0.1	1.3	0.3
pH			SU	4.67	4.3	4.2	5.72	5.82	4.66	4.82	6.09	5.54	4.55	5.33	5.57	6.36	4.61	5.33	5.47	4.65	5.87	4.95
Specific Conductance			umhos/cm	35	60	184	238	774	401	130	532	417	149	133	169	847	43	365	379	292	151	54
Temperature, Water			Deg C	19.1	19.3	19.9	21.7	20.8	22.4	22.7	22.6	19	18.7	18	18.8	19.3	20.1	20	20.8	20.3	19.2	19.4
Turbidity			NTU	74.83	4.41	4.82	30.44	15.83	17.87	3.09	3.74	4.46	3.94	13.46	4.6	3.42	5.01	4.08	6.12	4.17	36.73	9.71

Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. Groundwater Clean-Up Target Level (62-777 F.A.C.) are used for screening purposes only to evaluate if a parameter is significantly above background levels.
4. NS = No numeric standard has been set for this analyte.
5. mg/L = milligrams per liter
6. ug/L = micrograms per liter
7. NTU = nephelometric turbidity units
8. umhos/cm = micromhos per centimeter
9. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
10. deg C = degrees Celsius
11. U = Analyte concentration was below the laboratory detection limit (value shown).
12. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
13. V = Analyte was detected in the sample and associated method blank.

Table 5. Summary of Intermediate Groundwater Quality Analytical Results (Detected Parameters Only)
Trail Ridge Landfill, February 2020

Parameter	MCL	Standard	Units	MWB-2I	MWB-3I	MWB-11I (R)	MWB-12I	MWB-13I	MWB-27I	MWB-29I	MWB-32I	MWB-34I	MWB-35I	MWB-39I
Volatile Organic Compounds														
2-Hexanone	NS	NS	ug/L	---	---	---	---	---	---	---	---	---	---	---
4-Methyl-2-pentanone	NS	NS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Benzene	1	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Chloromethane	NS	NS	ug/L	---	---	---	---	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	70	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Toluene	40	SDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Vinyl Chloride	1	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Metals														
Antimony	6	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Barium	2000	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Chromium	100	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Copper	1000	SDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Iron	300	SDWS	ug/L	330 **I**	700	280 **I**	240 **I**	310 **I**	380 **I**	380 **I**	300 **I**	330 **I**	430	130 **I**
Lead	15	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Mercury	2	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Nickel	100	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Selenium	50	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Sodium	160	PDWS	mg/L	4.4	3.3	2.9 **I**	3.1 **I**	3.4	3.5	3.7	3.1	3.1	2.1	3
Thallium	2	PDWS	ug/L	---	---	---	---	---	---	---	---	---	---	---
Vanadium	NS	NS	ug/L	---	---	---	---	---	---	---	---	---	---	---
General Chemistry														
Ammonia (N)	NS	NS	mg/L	0.04 **U**	0.04 **U**	0.04 **U**	0.04 **U**	0.04 **U,J**	0.04 **U**	0.04 **U**	0.04 **U**	0.04 **U,J**	0.04 **U**	0.04 **U**
Chloride	250	SDWS	mg/L	7	6.1	4.9 **I**	4.8 **I**	4.8 **I**	5.2 **J**	6.3	4.5 **I**	4.7 **I**	3.1 **I**	5.8
Nitrate (N)	10	PDWS	mg/L	0.12 **I**	0.13 **I**	0.05 **U**	0.05 **U**	0.12 **I**	0.16 **I,J**	0.16 **I**	0.14 **I**	0.12 **I**	0.14 **I**	0.12 **I**
Residues- Filterable (TDS)	500	SDWS	mg/L	40	39	50	48	46	54	42	50	53	38	58
Field Parameters														
Dissolved Oxygen	NS	NS	mg/L	0.2	0.5	0.1	0.1	0.2	0.2	0.5	0.1	0.3	0.1	0.1
pH	6.5-8.5	SDWS	SU	4.55	4.36	4.69	4.92	4.9	5.19	4.79	5.14	5.01	4.51	5.1
Specific Conductance	NS	NS	umhos/cm	47	48	43	49	46	58	49	48	48	48	47
Temperature, Water	NS	NS	Deg C	20.8	21.4	23.7	25.7	26	20.8	23.7	18.1	21.4	21.6	21.7
Turbidity	NS	NS	NTU	2.26	3.53	3.01	3.01	4.21	4.1	9.86	6.14	3.99	3.73	2.93

Notes:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. Groundwater Clean-Up Target Level (62-777 F.A.C.) are used for screening purposes only to evaluate if a parameter is significantly above background levels.
4. NS = No numeric standard has been set for this analyte.
5. mg/L = milligrams per liter
6. ug/L = micrograms per liter
7. NTU = nephelometric turbidity units
8. umhos/cm = micromhos per centimeter
9. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
10. deg C = degrees Celsius
11. U = Analyte concentration was below the laboratory detection limit (value shown).
12. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
13. V = Analyte was detected in the sample and associated method blank.

The TDS concentration in MWB-34S continued an overall decreasing trend since 2017. This well continues to show minor impacts with elevated TDS that exceed the SDWS. The prior exceedances and detections were attributed to a leachate release that occurred in January 2017 which was quickly repaired. Additional information was provided in previous semiannual monitoring reports. There is no evidence this release has affected any other wells at this time, including the intermediate well MWB-34I in the same location, and thus the impacts remain contained to a small area. TRL proposes to monitor MWB-34S to ensure no other wells are impacted and concentrations continue to decline.

4.2.2.2 pH

The FDEP SDWS range of 6.5 units to 8.5 units for pH was not met at background monitoring wells or detection monitoring wells during the first semi-annual 2020 sampling event.

Low groundwater pH in this region is the result of low pH in precipitation, rapid recharge, and little buffering capacity of the surficial sands. The pH levels observed at the Site are characteristic of the groundwater in this region of Florida.

4.2.3 Organic Parameters Exceedances

4.2.3.1 Vinyl chloride

The vinyl chloride concentration in detection well MWB-39S (1.1 µg/L) exceeded the PDWS of 1 µg/L during the February 2020 monitoring event. This concentration was not consistent with historical concentrations and the well was scheduled to be re-sample to verify the detection. On March 31, 2020, detection well MWB-39S was resampled for Vinyl chloride. Vinyl chloride was not detected during the resample event at MWB-39S (0.2 **U** µg/L). The results of the initial monitoring event were not confirmed.

4.2.3.1 Other Detected Volatile Organic Compounds

During the first semi-annual 2020 monitoring event there were some low level volatile organic compound (VOC) detections below FDEP water quality standards for the following parameters: 2-hexanone, 4-methyl-2-pentanone, benzene, chloromethane, cis-1,2-dichloroethene, and toluene (see Table 4). These compounds will continue to be monitored to confirm that concentrations remain below their respective regulatory standards.

4.3 Surface Water Quality

Surface water analytical results were compared to Class III WQS. Standards are provided in Tables 6 and 7. In some cases, F.A.C. Chapter 62-302.530 requires calculations for Class III standards based on sample hardness.

4.3.1 Metals Exceedances

With regard to the exceedances of metal water quality standards in the expansion area sampling points SW-4 through SW-7, the initial detections occurred during the first sampling event at these new ponds in 1H 2018. The majority of these exceedances were confirmed during a confirmation resampling event conducted in April 2018. In May and June 2018, TRL conducted a source

Table 6. Summary of Surface Water Quality Analytical Results (Detected Parameters Only)
Trail Ridge Landfill, February 2020

Parameter	MCL	Units	SW-1	SW-3	SW-4	SW-5	SW-6	SW-7
Volatile Organic Compounds								
Carbon Disulfide	NS	ug/L	0.67 **U**	0.69 **I**	0.67 **U**	0.67 **U**	0.67 **U**	0.67 **U**
Chlorobenzene	NS	ug/L	0.41 **I**	0.21 **U**	0.21 **U**	0.21 **U**	0.21 **U**	0.21 **U**
Chloromethane	470.8	ug/L	0.21 **U**	0.94 **I**	0.21 **U**	0.21 **U**	0.21 **U**	0.21 **U**
Metals								
Antimony	4300	ug/L	0.24 **I**	2.3	0.23 **I**	0.27 **I**	0.38 **I**	0.2 **I**
Barium	NS	ug/L	28	41	37	26	30	25
Chromium	Calculated	ug/L	2.1 **I**	3.9 **I**	8.4	2 **U**	3 **I**	4.5 **I**
Calculated Chormium MCL	---	ug/L	45.6	120.1	68.8	68.1	70.3	48
Copper	Calculated	ug/L	4 **U**	9.7 **I**	4 **U**	4 **U**	4 **I**	4 **U**
Calculated Copper MCL	---	ug/L	4.8	13.2	7.4	7.3	7.5	5.1
Iron	1000	ug/L	670	1300	1500	320 **I**	360 **I**	1400
Lead	Calculated	ug/L	3 **U**	14	3 **U**	3 **U**	3 **U**	3 **U**
Calculated Lead MCL	---	ug/L	1.2	5.3	2.2	2.2	2.3	1.3
Magnesium	NS	mg/L	2.2	4.9	2.8	2.1	2.4	1.9
Nickel	Calculated	ug/L	6 **U**	7.7 **I**	6.9 **I**	6 **U**	6 **U**	6 **U**
Calculated Nickel MCL	---	ug/L	27	73.5	41.4	40.9	42.3	28.5
Selenium	5	ug/L	0.58 **U**	0.58 **U**	0.89 **I**	0.58 **U**	0.58 **U**	0.58 **U**
Vanadium	NS	ug/L	2.8 **I**	5.8	13	3.2 **I**	4.5	5.9
General Chemistry								
Ammonia (N)	Calculated	mg/L	0.04 **U,J**	0.31	0.04 **U**	0.04 **U**	0.15	0.04 **U**
Calculated TAN Criteria	---	mg/L	NC	4.74	NC	NC	6.55	NC
BOD	NS	mg/L	2 **U**	3.2	2 **U**	2 **U**	2 **U**	2 **U**
Calcium	NS	mg/L	15	54	26	26	27	17
Carbon- Total Organic	NS	mg/L	30	19	8	7.8	8.7	17
Corrected Chlorophyll A	NS	mg/m3	6.4	12	5.6	4.0 **I**	5	4.0 **I**
COD	NS	mg/L	120	77	50	26	43	82
Fecal Coliform	800	MPN/100 ml	1020	441	10 **U**	243	1180	98
Nitrate (N)	NS	mg/L	0.13 **I**	2.1	0.23 **I**	0.56	0.82	0.13 **I**
Nitrate-Nitrite (N)	NS	mg/L	0.13 **I**	2.2	0.23 **I**	0.56	0.82	0.13 **I**
Nitrogen- Total Kjeldahl	NS	mg/L	1.3	2.7	0.59	0.59	1.1	0.76
Phosphorus- Total	NS	mg/L	0.055 **U**	0.25	0.1	0.076 **I**	0.16	0.14
Residues- Filterable (TDS)	NS	mg/L	170	370	180	170	190	160
Total Hardness (as CaCO3)	NS	mg/L	46	150	76	75	78	49
Total Nitrogen	NS	mg/L	1.4	5	0.82	1.2	2	0.89
Total Susspended Solids	NS	mg/L	18	29	13	3.6	4	34
Field Parameters								
Dissolved Oxygen	>5.0	mg/L	6.2	4.2	6.8	6.9	6.9	4.8
pH	6.0-8.5	SU	6.99	7.48	7.61	7.61	7.02	6.83
Specific Conductance	1275	umhos/cm	158	459	167	202	229	130
Temperature, Water	NS	Deg C	12.9	15.5	15	15.1	14.8	11.6
Turbidity	29	NTU	8.35	29.27	57.41	17.69	25.96	42.08

Notes:

1. Parameter MCL is a Surface Water Criterion (Chapter 62-302 F.A.C.).
2. **I** = Analyte detected below quantitation limits.
3. U = Analyte concentration was below the laboratory detection limit (value shown).
4. Turbidity MCL is 29 NTUs over background levels
5. MCL = Maximum Contamination Level.
6. Yellow shaded values indicate parameter concentrations exceed MCL
7. mg/L = milligrams per liter.
8. ug/L = micrograms per liter.
9. umhos/cm = micromhos/centimeter
10. NTU = nephelometric turbidity units.
11. NS = No numeric standard has been set for this analyte.
12. Parameter MCL is calculated by the following formula: CR < e^(0.819*[ln Hardness]+0.6848).
13. Parameter MCL is calculated by the following formula: Cu < e^(0.8545*[ln Hardness]-1.702).
14. Parameter MCL is calculated by the following formula: Pb < e^(1.273*[ln Hardness]-4.705).
15. Parameter MCL is calculated by the following formula: Ni < e^(0.846*[ln Hardness]+0.0584).
16. Parameter MCL is calculated by the following formula: Zn < e^(0.8473*[ln Hardness]+0.884).
17. Parameter MCL is calculated by the following formula: TAN < 2.5*(0.8876*((0.0278/(1+10^(7.688-pH)))+(1.1994/(1+10^(pH-7.688))))*2.126*10^(0.028*(20-temp)))))))

Table 7 - Surface Water Quality Standard Calculations
Trail Ridge Landfill, Jacksonville, Florida
February 2020

Parameter	Units	WQS Class I & Class III	SW-1		SW-3		SW-4		SW-5		SW-6		SW-7		
			46		150		76		75		78		49		Total Hardness [1]
			3.83		5.01		4.33		4.32		4.36		3.89		lnH [2]
			Result (total)	Std	Result (total)	Std	Result (total)	Std	Result (total)	Std	Result (total)	Std	Result (total)	Std	
Cadmium	ug/L	Measured ≤ $e^{(0.7409[lnH]-4.719)}$	1 U	0.2	1 U	0.4	1 U	0.2	1 U	0.2	1 U	0.2	1 U	0.2	
Chromium	ug/L	Measured ≤ $e^{(0.819[lnH]+0.6848)}$	**2.1 I**	46	**3.9 I**	120	**8.4**	69	2 U	68	**3 I**	70	**4.5 I**	48	
Copper	ug/L	Measured ≤ $e^{(0.8545[lnH]-1.702)}$	4 U	4.8	**9.7 I**	13.2	4 U	7.4	4 U	7.3	**4 I**	7.5	4 U	5.1	
Lead	ug/L	Measured ≤ $e^{(1.273[lnH]- 4.705)}$	3 U	1.2	**14**	5.3	3 U	2.2	3 U	2.2	3 U	2.3	3 U	1.3	
Nickel	ug/L	Measured ≤ $e^{(0.846[lnH]+0.0584)}$	6 U	27	**7.7 I**	74	**6.9 I**	41	6 U	41	6 U	42	6 U	29	
Zinc	ug/L	Measured ≤ $e^{(0.8473[lnH]+0.884)}$	50 U	62	50 U	169	50 U	95	50 U	94	50 U	97	50 U	65	

Notes:

ug/L - micrograms per liter

WQS - Water Quality Standard, Class I (potable), Class III (freshwater) provided in FDEP Chapter 62-302

*- According to FDEP Rule 62-302.530, if H is less than 25 than 25 shall be used in the calculations

[1]- Total hardness (H) is reported in mg/L of $CaCO_3$ in the laboratory report

[2]- "ln H" means the natural logarithm of total hardness expressed as mg/L of $CaCO_3$

I - result is qualified because the detection was between method detection limits and practical quantitation limits.

U - Not Detected.

Bold values indicate detections above the laboratory detection limit; yellow cells indicate result exceeded WQS.

[NS]- Not Sampled (Dry)

investigation and submitted an Alternate Source Demonstration (ASD) to FDEP in July 2018. The ASD concluded elevated metal concentrations observed in the expansion area surface water ponds were likely associated with elevated turbidity and caused by contaminated run-on from the Chemours property and disturbance of native soils caused primarily by ongoing construction of the stormwater system. There was no evidence the exceedances were related to landfilling operations in Phase 6.

Additional sampling to evaluate run-on was conducted and TRL submitted an initial data summary to the Department on October 16, 2018. This data further supported the premise that run-on from Chemours is a significant source of sediment and contamination.

Iron and lead at some surface water locations exceeded the applicable standards. These parameters are discussed below.

4.3.1.1 Iron

Iron was detected above the Class III WQS of 1,000 µg/L at surface water location SW-3 (1,300 µg/L), SW-4 (1,500 µg/L), and SW-7 (1,400 µg/L). The iron exceedances have been previously reported to the FDEP.

4.3.1.2 Lead

Lead was detected above the calculated Class III WQS at SW-3 (14 µg/L). Lead exceedances have been previously reported to the FDEP. Lead is sporadically detected at SW-3 and has been attributed to elevated turbidity during past semi-annual monitoring events. The turbidity at SW-3 during the February 2020 monitoring event was 29.27 NTU. Turbidity at SW-3 and other locations was generally improved during this event, which could be attributed to dry conditions and/or general improvements in water quality in the expansion area. Lead was not detected in any other surface water sampling locations during this event.

4.3.2 General Chemistry Exceedances

Fecal Coliform, dissolved oxygen, and turbidity at some surface water locations exceeded the applicable standards. These parameters are discussed below.

4.3.2.1 Fecal Coliform

Fecal Coliform was detected above the Class III WQS of 800 MPN/100 mL at surface water locations SW-1 (1,020 MPN/100 mL) and SW-6 (1,180 MPN/100 mL). The fecal coliform at SW-6 is a first-time exceedance. Most of the surface water locations have had sporatic fecal coliform exceedances in the past. The fecal coliform concentrations do not appear to be related to the landfill and are most likely due to bird populations near the surface water locations.

4.3.2.2 Dissolved Oxygen

Dissolved oxygen was detected below the Class III WQS of greater than 5 mg/L at surface water locations SW-3 (4.2 mg/L) and SW-7 (4.8 mg/L). These concentrations are consistent with historical data. Surface water points have historically been below this threshold on a sporadic basis.

4.3.2.3 Turbidity

Turbidity was detected above the Class III WQS of not greater than 29 NTU above background at surface water locations SW-4 (57.41 NTU) and SW-7 (42.08 NTU). These concentrations are lower than or consistent with historical data.

5 DISCUSSION AND RECOMMENDATIONS

Except as noted, analyte detections and the exceedances observed during this event for both groundwater and surface water are consistent with historical conditions and/or background water quality.

The analytical results from analysis of the groundwater samples shows the following:

- The iron exceedances during the February 2020 sampling event were consistent with historical data. Based on this data, it appears that the presence of iron in the groundwater at most wells is not directly related to the landfill operations, but is related to the dissolution of naturally-occurring iron from the soil.
- Vanadium was detected in detection well MWB-13S. The detection at MWB-13S was consistent with historical concentrations.
- The FDEP SDWS for TDS was exceeded at detection well MWB-34S. The TDS concentration in MWB-34S continued an overall decreasing trend since 2017. The TDS exceedances and detections were attributed to a leachate release that occurred in January 2017 which was quickly repaired. There is no evidence this release has affected any other wells at this time, including the intermediate well MWB-34I in the same location, and thus the impacts remain contained to a small area.
- The FDEP SDWS range of 6.5 units to 8.5 units for pH was not met at background monitoring wells or detection monitoring wells during the first semi-annual 2020 sampling event. The low pH levels in select monitoring wells are attributed to Florida's ambient groundwater quality characteristics due to low pH rainfall, rapid recharge, and the limited buffering capability of Florida's sandy soils.
- The vinyl chloride concentration in detection well MWB-39S exceeded the PDWS during the February 2020 monitoring event. This concentration was not consistent with historical concentrations and the well was scheduled to be re-sample to verify the detection. On March 31, 2020, detection well MBW-39S was resampled for vinyl chloride. The results of the initial monitoring event were not confirmed.

The analytical results from analysis of the surface water samples shows the following:

- Iron was detected above the Class III WQS at surface water locations SW-3, SW-4, and SW-7.
- Lead was detected above the calculated Class III WQS at SW-3. Lead is sporadically detected above the Class III WQS at SW-3 and has been attributed to elevated turbidity Turbidity at SW-3 and other locations was generally improved during this event which could be attributed to dry conditions and/or general improvements in water quality in the expansion area. Lead was not detected in any other surface water sampling locations during this event.
- Fecal Coliform was detected above the Class III WQS at surface water locations SW-1 and SW-6. The fecal coliform concentrations do not appear to be related to the landfill and are most likely due to bird populations near the surface water locations.

- Dissolved oxygen was detected below the Class III WQS at surface water locations SW-3 and SW-7. These concentrations are consistent with historical data. Surface water points have historically been below this threshold on a sporadic basis.
- Turbidity was detected above the Class III WQS at surface water locations SW-4 and SW-7. These concentrations are lower than or consistent with historical data.

Several steps remain underway to address the surface water issues. First, the City of Jacksonville contractor responsible for the stormwater system construction has completed the system construction and soil stabilization and is working to repair sections of the perimeter ditches that were damaged by heavy rains. Second, the City has attempted to contact Chemours to address the run-on. To date, Chemours has not responded to the City's request for dialogue and to implement repairs and control measures upgradient (west) of TRL to disperse and slow run-on migrating onto the TRL property. However, some improvements have been made by the City on the east side of the property boundary to mitigate the issue. Lastly, TRL currently is installing BMPs in the expansion area to reduce turbidity. These BMPs include approximately 2,300 linear feet of turbidity curtains that were installed within the stormwater ponds and approximately 40 gabion baskets to be installed within the interior and outer conveyance systems (19 have been installed and 21 baskets are scheduled to be installed the week of May 11, 2020). These BMPs have proven successful in Ponds 1 and 2 and will be implemented as needed and appropriate after construction and repair are complete. The BMPs implemented on-site will be limited in effectiveness until the ultimate source of the detections (run-on from Chemours) is addressed by the property owner and FDEP.

Detection monitoring should continue as outlined in the WQMP. The next sampling event should be conducted prior to September 30, 2020, per the facility's permit and is currently scheduled for August 2020.

APPENDIX A

LABORATORY ANALYTICAL RESULTS AND FIELD FORMS

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March 17, 2020

Eric B. Fuller
City of Jacksonville
214 North Hogan Street
10th Floor
Jacksonville, FL 32202

RE: Workorder: J2002766 Trail Ridge Landfill

Dear Eric Fuller:

Enclosed are the analytical results for sample(s) received by the laboratory between Wednesday, February 26, 2020 and Monday, March 02, 2020. 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,

Jerry Allen - Project Manager
JAllen@aellab.com

Enclosures

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SAMPLE SUMMARY

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J2002766001	MWB11I (R)	Water	2/26/2020 12:27	2/26/2020 15:35
J2002766002	MWB2I	Water	2/26/2020 11:25	2/26/2020 15:35
J2002766003	MWB12I	Water	2/26/2020 10:24	2/26/2020 15:35
J2002766004	MWB13I	Water	2/26/2020 08:53	2/26/2020 15:35
J2002766005	MWB29I	Water	2/26/2020 07:54	2/26/2020 15:35
J2002766006	MWB27I	Water	2/26/2020 06:51	2/26/2020 15:35
J2002766007	MWB27S	Water	2/26/2020 07:21	2/26/2020 15:35
J2002766008	MWB29S	Water	2/26/2020 08:22	2/26/2020 15:35
J2002766009	MWB13S	Water	2/26/2020 09:21	2/26/2020 15:35
J2002766010	MWB22S	Water	2/26/2020 09:53	2/26/2020 15:35
J2002766011	MWB12S	Water	2/26/2020 10:53	2/26/2020 15:35
J2002766012	MWB2S	Water	2/26/2020 11:54	2/26/2020 15:35
J2002766013	MWB20S	Water	2/26/2020 13:01	2/26/2020 15:35
J2002766014	MWB21S	Water	2/26/2020 13:36	2/26/2020 15:35
J2002766015	Equipment Blank #1	Water	2/26/2020 13:51	2/26/2020 15:35
J2002766016	Trip Blank #1	Water	2/26/2020 07:21	2/26/2020 15:35
J2002766017	MWB-3S	Water	2/27/2020 13:00	2/28/2020 07:00
J2002766018	MWB-40S	Water	2/27/2020 12:23	2/28/2020 07:00
J2002766019	MWB-39S	Water	2/27/2020 11:50	2/28/2020 07:00
J2002766020	MWB-35S	Water	2/27/2020 14:37	2/28/2020 07:00
J2002766021	SGMW-2S	Water	2/27/2020 15:48	2/28/2020 07:00
J2002766022	SGMW-15R	Water	2/27/2020 15:11	2/28/2020 07:00
J2002766023	TRIP	Water	2/27/2020 00:00	2/28/2020 07:00
J2002766024	MWB-39I	Water	2/27/2020 11:21	2/28/2020 07:00
J2002766025	MWB-3I	Water	2/27/2020 12:31	2/28/2020 07:00
J2002766026	MWB-35I	Water	2/27/2020 14:06	2/28/2020 07:00
J2002766027	Equipment Blank #1	Water	2/27/2020 16:10	2/28/2020 07:00
J2002766028	MWB-32I	Water	2/28/2020 08:37	2/28/2020 11:00
J2002766029	MWB-34I	Water	2/28/2020 06:56	2/28/2020 11:00
J2002766030	MWB-11S	Water	2/28/2020 09:41	2/28/2020 11:00
J2002766031	MWB-32S	Water	2/28/2020 09:07	2/28/2020 11:00
J2002766032	MWB-33S	Water	2/28/2020 07:59	2/28/2020 11:00
J2002766033	MWB-34S	Water	2/28/2020 07:25	2/28/2020 11:00
J2002766034	TRIP	Water	2/28/2020 00:00	2/28/2020 11:00
J2002766035	SW-3	Water	3/2/2020 08:30	3/2/2020 10:10

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SAMPLE SUMMARY

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J2002766036	SW-6	Water	3/2/2020 06:45	3/2/2020 10:10
J2002766037	SW-7	Water	3/2/2020 07:21	3/2/2020 10:10
J2002766038	SW-5	Water	3/2/2020 07:01	3/2/2020 10:10
J2002766039	SW-4	Water	3/2/2020 07:42	3/2/2020 10:10
J2002766040	SW-1	Water	3/2/2020 09:01	3/2/2020 10:10
J2002766041	Trip	Water	3/2/2020 00:00	3/2/2020 10:10

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766001** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB11I (R)** Date Collected: 02/26/20 12:27

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							
Iron	**280**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:05	J
Sodium	**2.9**	**I**	**mg/L**	**1**	3.2	0.80	3/10/2020 20:05	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.9**	**I**	**mg/L**	**1**	5.0	0.50	2/27/2020 16:12	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	2/27/2020 16:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:05	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**50**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766002** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB2I** Date Collected: 02/26/20 11:25

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							
Iron	**330**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:08	J
Sodium	**4.4**		**mg/L**	**1**	3.2	0.80	3/10/2020 20:08	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**7.0**		**mg/L**	**1**	5.0	0.50	2/27/2020 14:44	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 14:44	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766002** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB2I** Date Collected: 02/26/20 11:25

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)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**40**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766003** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB12I** Date Collected: 02/26/20 10:24

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							
Iron	**240**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:19	J
Sodium	**3.1**	**I**	**mg/L**	**1**	3.2	0.80	3/10/2020 20:19	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.8**	**I**	**mg/L**	**1**	5.0	0.50	2/27/2020 12:53	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	2/27/2020 12:53	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**48**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766004** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB13I** Date Collected: 02/26/20 08:53

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							
Iron	**310**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:23	J
Sodium	**3.4**		**mg/L**	**1**	3.2	0.80	3/10/2020 20:23	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.8**	**I**	**mg/L**	**1**	5.0	0.50	2/27/2020 11:25	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 11:25	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U,J4**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**46**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766005** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB29I** Date Collected: 02/26/20 07:54

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							
Iron	**380**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:26	J
Sodium	**3.7**		**mg/L**	**1**	3.2	0.80	3/10/2020 20:26	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**6.3**		**mg/L**	**1**	5.0	0.50	2/27/2020 10:41	J
Nitrate (as N)	**0.16**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 10:41	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766005** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB29I** Date Collected: 02/26/20 07:54

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)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:21	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**42**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766006** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB27I** Date Collected: 02/26/20 06:51

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							
Iron	**380**	**I**	**ug/L**	**1**	800	200	3/10/2020 20:30	J
Sodium	**3.5**		**mg/L**	**1**	3.2	0.80	3/10/2020 20:30	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.2**	**J4**	**mg/L**	**1**	5.0	0.50	2/27/2020 09:35	J
Nitrate (as N)	**0.16**	**I,J4**	**mg/L**	**1**	0.50	0.050	2/27/2020 09:35	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:22	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**54**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766007** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB27S** Date Collected: 02/26/20 07:21

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 20:33	J
Barium	**8.0**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 20:33	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 20:33	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 20:33	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 20:33	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 20:33	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 20:33	J
Iron	**200**	**U**	**ug/L**	**1**	800	200	3/10/2020 20:33	J
Lead	**3.0**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 20:33	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 20:33	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 20:33	J
Sodium	**31**		**mg/L**	**1**	3.2	0.80	3/10/2020 20:33	J
Vanadium	**17**		**ug/L**	**1**	8.0	2.0	3/10/2020 20:33	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 20:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.46**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 21:15	J
Selenium	**1.1**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 21:15	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 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	3/11/2020 16:01	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	3/10/2020 13:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 13:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 13:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 13:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 13:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 13:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 13:41	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766007** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB27S** Date Collected: 02/26/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 13:41	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 13:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 13:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 13:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 13:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 13:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 13:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 13:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 13:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 13:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 13:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 13:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 13:41	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 13:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 13:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 13:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 13:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 13:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 13:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 13:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 13:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 13:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 13:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 13:41	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 13:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 13:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 13:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 13:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 13:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 13:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 13:41	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 13:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 13:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 13:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 13:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 13:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 13:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 13:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 13:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 13:41	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766007** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB27S** Date Collected: 02/26/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		3/10/2020 13:41	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 13:41	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		3/10/2020 13:41	
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	3/10/2020 13:41	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 13:41	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	77-125		3/10/2020 13:41	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 13:41	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 13:41	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**49**		**mg/L**	**1**	5.0	0.50	2/27/2020 10:19	J
Nitrate (as N)	**0.18**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 10:19	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.12**		**mg/L**	**5**	0.050	0.040	3/3/2020 14:23	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**300**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766008** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB29S** Date Collected: 02/26/20 08:22

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 13:35	J
Barium	**7.2**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 13:35	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 13:35	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766008** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB29S** Date Collected: 02/26/20 08:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 13:35	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 13:35	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 13:35	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 13:35	J
Iron	**270**	**I**	**ug/L**	**1**	800	200	3/10/2020 13:35	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 13:35	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 13:35	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 13:35	J
Sodium	**16**		**mg/L**	**1**	3.2	0.80	3/10/2020 13:35	J
Vanadium	**6.8**	**I**	**ug/L**	**1**	8.0	2.0	3/10/2020 13:35	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 13:35	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	3/15/2020 21:52	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 21:52	J
Thallium	**0.15**	**I**	**ug/L**	**1**	0.20	0.057	3/15/2020 21:52	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	3/16/2020 15:51	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	3/10/2020 14:08	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 14:08	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:08	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 14:08	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 14:08	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:08	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 14:08	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 14:08	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:08	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:08	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 14:08	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 14:08	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 14:08	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 14:08	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766008** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB29S** Date Collected: 02/26/20 08:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 14:08	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 14:08	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 14:08	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:08	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 14:08	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 14:08	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 14:08	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 14:08	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 14:08	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 14:08	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:08	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 14:08	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:08	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:08	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 14:08	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 14:08	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 14:08	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:08	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:08	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 14:08	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:08	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 14:08	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:08	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 14:08	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 14:08	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 14:08	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:08	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 14:08	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 14:08	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:08	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:08	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:08	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 14:08	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		3/10/2020 14:08	
Toluene-d8 (S)	**91**		**%**	**1**	77-119		3/10/2020 14:08	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/10/2020 14:08	
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	3/10/2020 14:08	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766008** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB29S** Date Collected: 02/26/20 08:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 14:08	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		3/10/2020 14:08	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 14:08	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 14:08	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**24**		**mg/L**	**1**	5.0	0.50	2/27/2020 11:03	J
Nitrate (as N)	**0.16**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 11:03	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:24	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766009** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB13S** Date Collected: 02/26/20 09:21

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:00	J
Barium	**11**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:00	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:00	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:00	J
Chromium	**40**		**ug/L**	**1**	20	5.0	3/10/2020 14:00	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:00	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:00	J
Iron	**4200**		**ug/L**	**1**	800	200	3/10/2020 14:00	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:00	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:00	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:00	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766009** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB13S** Date Collected: 02/26/20 09:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sodium	**68**		**mg/L**	**1**	3.2	0.80	3/10/2020 14:00	J
Vanadium	**57**		**ug/L**	**1**	8.0	2.0	3/10/2020 14:00	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:00	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	3/15/2020 21:56	J
Selenium	**5.5**		**ug/L**	**1**	5.0	0.58	3/15/2020 21:56	J
Thallium	**0.085**	**I**	**ug/L**	**1**	0.20	0.057	3/15/2020 21:56	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.037**	**I**	**ug/L**	**1**	0.10	0.011	3/16/2020 15:54	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	3/10/2020 14:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 14:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 14:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 14:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 14:34	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 14:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 14:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 14:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 14:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 14:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 14:34	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 14:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 14:34	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 14:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 14:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 14:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 14:34	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766009** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB13S** Date Collected: 02/26/20 09:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 14:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 14:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 14:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 14:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 14:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 14:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 14:34	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 14:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 14:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 14:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 14:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 14:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 14:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 14:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 14:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 14:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 14:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 14:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 14:34	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 14:34	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 14:34	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		3/10/2020 14:34	
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	3/10/2020 14:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 14:34	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 14:34	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 14:34	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		3/10/2020 14:34	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766009** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB13S** Date Collected: 02/26/20 09:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloride	**190**		**mg/L**	**1**	5.0	0.50	2/27/2020 11:47	J
Nitrate (as N)	**0.32**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 11:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:25	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**470**		**mg/L**	**1**	10	10	2/27/2020 14:33	J

Lab ID: **J2002766010** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB22S** Date Collected: 02/26/20 09:53

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:03	J
Barium	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 14:03	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:03	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:03	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 14:03	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:03	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:03	J
Iron	**200**	**U**	**ug/L**	**1**	800	200	3/10/2020 14:03	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 14:03	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:03	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:03	J
Sodium	**59**		**mg/L**	**1**	3.2	0.80	3/10/2020 14:03	J
Vanadium	**3.9**	**I**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:03	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:03	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	3/15/2020 22:04	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766010** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB22S** Date Collected: 02/26/20 09:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:04	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:04	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	3/16/2020 15:57	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	3/10/2020 15:01	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:01	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 15:01	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 15:01	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:01	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 15:01	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 15:01	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:01	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:01	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 15:01	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:01	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 15:01	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 15:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 15:01	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 15:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 15:01	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:01	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 15:01	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 15:01	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 15:01	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:01	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 15:01	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:01	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:01	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:01	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:01	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:01	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:01	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766010** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB22S** Date Collected: 02/26/20 09:53

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	3/10/2020 15:01	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:01	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:01	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 15:01	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:01	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:01	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:01	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:01	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 15:01	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 15:01	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:01	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 15:01	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:01	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:01	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:01	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 15:01	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 15:01	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 15:01	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		3/10/2020 15:01	
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	3/10/2020 15:01	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 15:01	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/10/2020 15:01	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 15:01	
Bromofluorobenzene (S)	**95**		**%**	**1**	80-129		3/10/2020 15:01	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**98**		**mg/L**	**1**	5.0	0.50	2/27/2020 12:09	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 12:09	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:26	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766010** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB22S** Date Collected: 02/26/20 09:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**370**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766011** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB12S** Date Collected: 02/26/20 10:53

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:07	J
Barium	**5.3**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:07	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:07	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:07	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 14:07	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:07	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:07	J
Iron	**700**	**I**	**ug/L**	**1**	800	200	3/10/2020 14:07	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 14:07	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:07	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:07	J
Sodium	**17**		**mg/L**	**1**	3.2	0.80	3/10/2020 14:07	J
Vanadium	**30**		**ug/L**	**1**	8.0	2.0	3/10/2020 14:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:07	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.46**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 22:23	J
Selenium	**16**		**ug/L**	**1**	5.0	0.58	3/15/2020 22:23	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:23	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**I**	**ug/L**	**1**	0.10	0.011	3/16/2020 16:01	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766011** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB12S** Date Collected: 02/26/20 10:53

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	3/10/2020 15:27	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:27	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:27	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 15:27	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 15:27	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:27	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 15:27	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 15:27	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:27	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:27	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 15:27	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:27	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 15:27	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 15:27	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 15:27	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 15:27	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 15:27	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:27	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 15:27	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 15:27	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 15:27	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:27	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 15:27	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:27	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:27	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:27	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:27	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:27	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:27	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 15:27	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:27	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:27	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:27	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 15:27	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:27	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:27	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766011** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB12S** Date Collected: 02/26/20 10:53

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	3/10/2020 15:27	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:27	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 15:27	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 15:27	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:27	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 15:27	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:27	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:27	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:27	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:27	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 15:27	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 15:27	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 15:27	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		3/10/2020 15:27	
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	3/10/2020 15:27	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 15:27	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 15:27	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 15:27	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/10/2020 15:27	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**28**		**mg/L**	**1**	5.0	0.50	2/27/2020 14:22	J
Nitrate (as N)	**0.20**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 14:22	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**220**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766012** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB2S** Date Collected: 02/26/20 11:54

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:10	J
Barium	**7.7**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:10	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:10	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:10	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 14:10	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:10	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:10	J
Iron	**800**		**ug/L**	**1**	800	200	3/10/2020 14:10	J
Lead	**15**		**ug/L**	**1**	12	3.0	3/10/2020 14:10	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:10	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:10	J
Sodium	**1.9**	**I**	**mg/L**	**1**	3.2	0.80	3/10/2020 14:10	J
Vanadium	**3.3**	**I**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:10	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:10	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	3/15/2020 22:29	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:29	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.077**	**I**	**ug/L**	**1**	0.10	0.011	3/16/2020 16:04	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	3/10/2020 15:54	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:54	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:54	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 15:54	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 15:54	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:54	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 15:54	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766012** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB2S** Date Collected: 02/26/20 11:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 15:54	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:54	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:54	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 15:54	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 15:54	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 15:54	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 15:54	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 15:54	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 15:54	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 15:54	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:54	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 15:54	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 15:54	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 15:54	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:54	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 15:54	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:54	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:54	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:54	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 15:54	J
Chloromethane	**2.3**		**ug/L**	**1**	1.0	0.21	3/10/2020 15:54	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 15:54	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 15:54	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:54	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:54	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:54	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 15:54	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:54	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 15:54	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 15:54	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 15:54	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 15:54	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 15:54	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:54	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 15:54	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 15:54	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 15:54	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 15:54	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 15:54	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 15:54	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766012** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB2S** Date Collected: 02/26/20 11:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		3/10/2020 15:54	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		3/10/2020 15:54	
Bromofluorobenzene (S)	**101**		**%**	**1**	86-123		3/10/2020 15:54	
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	3/10/2020 15:54	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 15:54	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/10/2020 15:54	
Toluene-d8 (S)	**88**		**%**	**1**	80-121		3/10/2020 15:54	
Bromofluorobenzene (S)	**95**		**%**	**1**	80-129		3/10/2020 15:54	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1.3**	**I**	**mg/L**	**1**	5.0	0.50	2/27/2020 15:28	J
Nitrate (as N)	**0.18**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 15:28	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/3/2020 14:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**93**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766013** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB20S** Date Collected: 02/26/20 13:01

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:14	J
Barium	**4.5**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:14	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:14	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766013** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB20S** Date Collected: 02/26/20 13:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:14	J
Chromium	**5.9**	**I**	**ug/L**	**1**	20	5.0	3/10/2020 14:14	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:14	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:14	J
Iron	**200**	**U**	**ug/L**	**1**	800	200	3/10/2020 14:14	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:14	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:14	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:14	J
Sodium	**45**		**mg/L**	**1**	3.2	0.80	3/10/2020 14:14	J
Vanadium	**14**		**ug/L**	**1**	8.0	2.0	3/10/2020 14:14	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:14	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.25**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 22:33	J
Selenium	**1.7**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.033**	**I**	**ug/L**	**1**	0.10	0.011	3/16/2020 16:07	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	3/10/2020 16:21	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 16:21	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:21	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 16:21	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 16:21	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:21	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 16:21	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 16:21	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:21	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:21	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 16:21	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 16:21	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 16:21	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 16:21	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766013** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB20S** Date Collected: 02/26/20 13:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 16:21	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 16:21	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 16:21	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:21	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 16:21	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 16:21	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 16:21	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 16:21	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 16:21	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 16:21	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:21	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 16:21	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:21	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:21	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 16:21	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 16:21	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 16:21	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:21	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:21	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 16:21	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:21	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 16:21	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:21	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 16:21	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 16:21	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 16:21	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:21	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 16:21	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 16:21	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:21	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:21	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:21	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 16:21	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		3/10/2020 16:21	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 16:21	
Bromofluorobenzene (S)	**102**		**%**	**1**	86-123		3/10/2020 16:21	
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	3/10/2020 16:21	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766013** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB20S** Date Collected: 02/26/20 13:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 16:21	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		3/10/2020 16:21	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 16:21	
Bromofluorobenzene (S)	**95**		**%**	**1**	80-129		3/10/2020 16:21	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**85**		**mg/L**	**1**	5.0	0.50	2/27/2020 17:18	J
Nitrate (as N)	**1.0**		**mg/L**	**1**	0.50	0.050	2/27/2020 17:18	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.82**		**mg/L**	**5**	0.050	0.040	3/3/2020 14:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**260**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766014** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB21S** Date Collected: 02/26/20 13:36

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:18	J
Barium	**28**		**ug/L**	**1**	12	3.0	3/10/2020 14:18	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:18	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:18	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 14:18	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:18	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:18	J
Iron	**430**	**I**	**ug/L**	**1**	800	200	3/10/2020 14:18	J
Lead	**5.5**	**I**	**ug/L**	**1**	12	3.0	3/10/2020 14:18	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:18	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:18	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766014** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB21S** Date Collected: 02/26/20 13:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sodium	**8.6**		**mg/L**	**1**	3.2	0.80	3/10/2020 14:18	J
Vanadium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:18	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:18	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	3/15/2020 22:37	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:37	J
Thallium	**0.066**	**I**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:37	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	3/16/2020 16:10	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	3/10/2020 16:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 16:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 16:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 16:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 16:47	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 16:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 16:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 16:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 16:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 16:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 16:47	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 16:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 16:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 16:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 16:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 16:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 16:47	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766014** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **MWB21S** Date Collected: 02/26/20 13:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 16:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 16:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 16:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 16:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 16:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 16:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 16:47	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 16:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 16:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 16:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 16:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 16:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 16:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 16:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 16:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 16:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 16:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 16:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 16:47	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 16:47	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 16:47	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/10/2020 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	3/10/2020 16:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 16:47	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 16:47	
Toluene-d8 (S)	**88**		**%**	**1**	80-121		3/10/2020 16:47	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		3/10/2020 16:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766014** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **MWB21S** Date Collected: 02/26/20 13:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloride	**19**		**mg/L**	**1**	5.0	0.50	2/27/2020 16:34	J
Nitrate (as N)	**0.31**	**I**	**mg/L**	**1**	0.50	0.050	2/27/2020 16:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**5**	0.050	0.040	3/5/2020 17:37	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**93**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766015** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **Equipment Blank #1** Date Collected: 02/26/20 13:51

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	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:21	J
Barium	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 14:21	J
Beryllium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:21	J
Cadmium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/10/2020 14:21	J
Chromium	**5.0**	**U**	**ug/L**	**1**	20	5.0	3/10/2020 14:21	J
Cobalt	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/10/2020 14:21	J
Copper	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:21	J
Iron	**200**	**U**	**ug/L**	**1**	800	200	3/10/2020 14:21	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/10/2020 14:21	J
Nickel	**10**	**U**	**ug/L**	**1**	40	10	3/10/2020 14:21	J
Silver	**8.0**	**U**	**ug/L**	**1**	32	8.0	3/10/2020 14:21	J
Sodium	**0.80**	**U**	**mg/L**	**1**	3.2	0.80	3/10/2020 14:21	J
Vanadium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/10/2020 14:21	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/10/2020 14:21	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	3/15/2020 22:41	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766015** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **Equipment Blank #1** Date Collected: 02/26/20 13:51

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:41	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:41	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	3/16/2020 16:33	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	3/10/2020 17:14	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 17:14	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:14	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 17:14	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 17:14	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 17:14	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 17:14	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 17:14	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 17:14	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:14	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 17:14	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 17:14	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 17:14	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 17:14	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 17:14	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 17:14	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 17:14	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:14	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 17:14	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 17:14	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 17:14	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 17:14	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 17:14	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 17:14	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:14	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 17:14	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 17:14	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:14	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 17:14	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766015** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **Equipment Blank #1** Date Collected: 02/26/20 13:51

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	3/10/2020 17:14	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 17:14	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:14	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:14	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 17:14	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:14	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 17:14	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:14	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 17:14	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 17:14	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 17:14	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:14	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 17:14	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 17:14	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:14	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:14	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:14	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 17:14	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 17:14	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 17:14	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		3/10/2020 17:14	
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	3/10/2020 17:14	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 17:14	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		3/10/2020 17:14	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 17:14	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		3/10/2020 17:14	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	2/27/2020 16:56	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	2/27/2020 16:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	3/5/2020 17:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766015** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **Equipment Blank #1** Date Collected: 02/26/20 13:51

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766016** Date Received: 02/26/20 15:35 Matrix: Water
Sample ID: **Trip Blank #1** Date Collected: 02/26/20 07:21

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	3/10/2020 17:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 17:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 17:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 17:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 17:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 17:40	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 17:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 17:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 17:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 17:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 17:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 17:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 17:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 17:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 17:40	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 17:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 17:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 17:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 17:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 17:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 17:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 17:40	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766016** Date Received: 02/26/20 15:35 Matrix: Water

Sample ID: **Trip Blank #1** Date Collected: 02/26/20 07:21

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	3/10/2020 17:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 17:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 17:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 17:40	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 17:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 17:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 17:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 17:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 17:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 17:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 17:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 17:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 17:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 17:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 17:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 17:40	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 17:40	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 17:40	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		3/10/2020 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	3/10/2020 17:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 17:40	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 17:40	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 17:40	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 17:40	

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766017** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-3S** Date Collected: 02/27/20 13:00

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	3/3/2020 15:22	J
Barium	**12**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 15:22	J
Iron	**410**		**ug/L**	**1**	400	100	3/3/2020 15:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 15:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:22	J
Sodium	**3.0**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:22	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 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	3/3/2020 17:58	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/3/2020 17:58	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 17:58	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	3/16/2020 16:49	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	3/10/2020 18:07	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 18:07	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 18:07	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 18:07	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 18:07	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 18:07	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 18:07	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766017** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-3S** Date Collected: 02/27/20 13:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 18:07	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 18:07	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 18:07	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 18:07	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 18:07	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 18:07	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 18:07	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 18:07	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 18:07	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 18:07	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 18:07	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 18:07	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 18:07	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 18:07	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 18:07	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 18:07	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 18:07	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 18:07	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 18:07	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 18:07	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 18:07	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 18:07	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 18:07	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 18:07	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 18:07	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 18:07	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 18:07	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 18:07	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 18:07	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 18:07	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 18:07	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 18:07	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 18:07	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 18:07	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 18:07	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 18:07	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 18:07	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 18:07	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 18:07	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 18:07	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766017** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-3S** Date Collected: 02/27/20 13:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 18:07	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 18:07	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		3/10/2020 18:07	
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**	**ug/L**	**1**	0.20	0.11	3/10/2020 18:07	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 18:07	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 18:07	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 18:07	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		3/10/2020 18:07	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.5**		**mg/L**	**1**	5.0	0.50	2/28/2020 18:16	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 18:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 17:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**45**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766018** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-40S** Date Collected: 02/27/20 12:23

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	3/3/2020 15:26	J
Barium	**54**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:26	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:26	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766018** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-40S** Date Collected: 02/27/20 12:23

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:26	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:26	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 15:26	J
Iron	**790**		**ug/L**	**1**	400	100	3/3/2020 15:26	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:26	J
Nickel	**6.5**	**I**	**ug/L**	**1**	24	6.0	3/3/2020 15:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:26	J
Sodium	**42**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:26	J
Vanadium	**6.6**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 15:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.42**	**I**	**ug/L**	**1**	0.70	0.11	3/3/2020 18:02	J
Selenium	**0.63**	**I**	**ug/L**	**1**	5.0	0.58	3/3/2020 18:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 18:02	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	3/16/2020 16:59	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	3/12/2020 11:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 11:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 11:29	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 11:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 11:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 11:29	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 11:29	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 11:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 11:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 11:29	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 11:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 11:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 11:29	J
2-Hexanone	**9.5**		**ug/L**	**1**	5.0	0.71	3/12/2020 11:29	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766018** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-40S** Date Collected: 02/27/20 12:23

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Methyl-2-pentanone (MIBK)	**1.4**		**ug/L**	**1**	1.0	0.47	3/12/2020 11:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 11:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 11:29	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 11:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 11:29	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 11:29	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 11:29	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 11:29	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 11:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 11:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 11:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 11:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 11:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 11:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 11:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 11:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 11:29	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 11:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 11:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 11:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 11:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 11:29	J
Toluene	**7.0**		**ug/L**	**1**	1.0	0.23	3/12/2020 11:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 11:29	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 11:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 11:29	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 11:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 11:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 11:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 11:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 11:29	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 11:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 11:29	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		3/12/2020 11:29	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		3/12/2020 11:29	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		3/12/2020 11:29	
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	3/12/2020 11:29	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766018** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-40S** Date Collected: 02/27/20 12:23

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 11:29	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		3/12/2020 11:29	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		3/12/2020 11:29	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/12/2020 11:29	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**74**		**mg/L**	**1**	5.0	0.50	2/28/2020 17:54	J
Nitrate (as N)	**0.18**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 17:54	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.6**	**J4**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:04	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**210**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766019** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-39S** Date Collected: 02/27/20 11:50

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	3/3/2020 15:29	J
Barium	**15**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:29	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 15:29	J
Iron	**580**		**ug/L**	**1**	400	100	3/3/2020 15:29	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 15:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:29	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766019** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-39S** Date Collected: 02/27/20 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sodium	**32**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:29	J
Vanadium	**1.2**	**I**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 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	3/3/2020 18:07	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/3/2020 18:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 18:07	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	3/16/2020 17:02	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	3/10/2020 19:00	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:00	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:00	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 19:00	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 19:00	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:00	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 19:00	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 19:00	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:00	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:00	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 19:00	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:00	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 19:00	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 19:00	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 19:00	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 19:00	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 19:00	J
Benzene	**0.76**	**I**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:00	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 19:00	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 19:00	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 19:00	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:00	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766019** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-39S** Date Collected: 02/27/20 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 19:00	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:00	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:00	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:00	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:00	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:00	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:00	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 19:00	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:00	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:00	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:00	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 19:00	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:00	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:00	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:00	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:00	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 19:00	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 19:00	J
Vinyl Chloride	**1.1**		**ug/L**	**1**	1.0	0.20	3/10/2020 19:00	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 19:00	J
cis-1,2-Dichloroethylene	**0.60**	**I**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:00	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:00	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:00	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:00	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 19:00	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 19:00	
Toluene-d8 (S)	**91**		**%**	**1**	77-119		3/10/2020 19:00	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/10/2020 19:00	
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	3/10/2020 19:00	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 19:00	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/10/2020 19:00	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 19:00	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		3/10/2020 19:00	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766019** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-39S** Date Collected: 02/27/20 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloride	**71**		**mg/L**	**1**	5.0	0.50	2/28/2020 17:31	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 17:31	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**250**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766020** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-35S** Date Collected: 02/27/20 14:37

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	3/3/2020 15:41	J
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:41	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:41	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:41	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 15:41	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	3/3/2020 15:41	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:41	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 15:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:41	J
Sodium	**2.1**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:41	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:41	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 15:41	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	3/3/2020 18:24	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766020** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-35S** Date Collected: 02/27/20 14:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/3/2020 18:24	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 18:24	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	3/16/2020 17:05	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	3/10/2020 19:27	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:27	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:27	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 19:27	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 19:27	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:27	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 19:27	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 19:27	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:27	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:27	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 19:27	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:27	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 19:27	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 19:27	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 19:27	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 19:27	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 19:27	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:27	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 19:27	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 19:27	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 19:27	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:27	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 19:27	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:27	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:27	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:27	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:27	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:27	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:27	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766020** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **MWB-35S** Date Collected: 02/27/20 14:37

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	3/10/2020 19:27	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:27	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:27	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:27	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 19:27	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:27	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:27	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:27	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:27	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 19:27	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 19:27	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:27	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 19:27	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:27	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:27	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:27	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:27	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 19:27	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 19:27	
Toluene-d8 (S)	**92**		**%**	**1**	77-119		3/10/2020 19:27	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/10/2020 19:27	
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	3/10/2020 19:27	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 19:27	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 19:27	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		3/10/2020 19:27	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 19:27	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**3.1**	**I**	**mg/L**	**1**	5.0	0.50	2/28/2020 21:12	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 21:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:09	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766020** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-35S** Date Collected: 02/27/20 14:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**55**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766021** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **SGMW-2S** Date Collected: 02/27/20 15:48

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							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	3/3/2020 15:44	J
Barium	**86**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:44	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:44	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:44	J
Chromium	**7.4**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:44	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:44	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 15:44	J
Iron	**770**		**ug/L**	**1**	400	100	3/3/2020 15:44	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:44	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 15:44	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:44	J
Sodium	**3.7**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:44	J
Vanadium	**16**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:44	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 15:44	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	3/3/2020 18:28	J
Selenium	**2.9**	**U**	**ug/L**	**5**	25	2.9	3/4/2020 15:10	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 18:28	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.017**	**I**	**ug/L**	**1**	0.10	0.011	3/16/2020 17:09	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766021** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **SGMW-2S** Date Collected: 02/27/20 15:48

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	3/10/2020 19:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 19:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 19:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 19:53	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 19:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 19:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 19:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 19:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 19:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 19:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 19:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 19:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 19:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 19:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 19:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:53	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 19:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 19:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 19:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 19:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:53	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 19:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 19:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 19:53	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766021** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **SGMW-2S** Date Collected: 02/27/20 15:48

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	3/10/2020 19:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 19:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 19:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 19:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 19:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 19:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 19:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 19:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 19:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 19:53	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 19:53	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 19:53	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/10/2020 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	3/10/2020 19:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 19:53	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/10/2020 19:53	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 19:53	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/10/2020 19:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.0**	**I**	**mg/L**	**1**	5.0	0.50	2/28/2020 21:56	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 21:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**46**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766022** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **SGMW-15R** Date Collected: 02/27/20 15:11

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	3/3/2020 15:55	J
Barium	**140**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:55	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 15:55	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 15:55	J
Chromium	**9.4**		**ug/L**	**1**	8.0	2.0	3/3/2020 15:55	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 15:55	J
Copper	**4.1**	**I**	**ug/L**	**1**	16	4.0	3/3/2020 15:55	J
Iron	**2600**		**ug/L**	**1**	400	100	3/3/2020 15:55	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 15:55	J
Nickel	**14**	**I**	**ug/L**	**1**	24	6.0	3/3/2020 15:55	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 15:55	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	3/3/2020 15:55	J
Vanadium	**4.3**		**ug/L**	**1**	4.0	1.0	3/3/2020 15:55	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 15:55	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	3/3/2020 18:32	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/3/2020 18:32	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/3/2020 18:32	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	3/16/2020 17:12	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	3/10/2020 20:20	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 20:20	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:20	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 20:20	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 20:20	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:20	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 20:20	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766022** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **SGMW-15R** Date Collected: 02/27/20 15:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 20:20	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:20	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:20	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 20:20	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 20:20	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 20:20	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 20:20	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 20:20	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 20:20	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 20:20	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:20	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 20:20	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 20:20	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 20:20	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 20:20	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 20:20	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 20:20	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:20	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 20:20	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:20	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:20	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 20:20	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 20:20	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 20:20	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:20	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:20	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 20:20	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:20	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 20:20	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:20	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 20:20	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 20:20	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 20:20	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:20	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 20:20	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 20:20	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:20	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:20	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:20	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 20:20	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766022** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **SGMW-15R** Date Collected: 02/27/20 15:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 20:20	
Toluene-d8 (S)	**92**		**%**	**1**	77-119		3/10/2020 20:20	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		3/10/2020 20:20	
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	3/10/2020 20:20	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 20:20	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/10/2020 20:20	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		3/10/2020 20:20	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		3/10/2020 20:20	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**51**		**mg/L**	**1**	5.0	0.50	2/28/2020 21:34	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 21:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766023** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **TRIP** Date Collected: 02/27/20 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	3/10/2020 20:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 20:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766023** Date Received: 02/28/20 07:00 Matrix: Water

Sample ID: **TRIP** Date Collected: 02/27/20 00:00

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	3/10/2020 20:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 20:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 20:46	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 20:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 20:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 20:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 20:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 20:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 20:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 20:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 20:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 20:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 20:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 20:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 20:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 20:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 20:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 20:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 20:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 20:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 20:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 20:46	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 20:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 20:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 20:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 20:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 20:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 20:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 20:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 20:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766023** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **TRIP** Date Collected: 02/27/20 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 20:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 20:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 20:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 20:46	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		3/10/2020 20:46	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 20:46	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/10/2020 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	3/10/2020 20:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 20:46	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/10/2020 20:46	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 20:46	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/10/2020 20:46	

Lab ID: **J2002766024** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-39I** Date Collected: 02/27/20 11:21

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							
Iron	**130**	**I**	**ug/L**	**1**	400	100	3/3/2020 16:13	J
Sodium	**3.0**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:13	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.8**		**mg/L**	**1**	5.0	0.50	2/28/2020 17:09	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 17:09	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:13	G

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766024** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-39I** Date Collected: 02/27/20 11:21

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	3/3/2020 14:46	J

Lab ID: **J2002766025** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-3I** Date Collected: 02/27/20 12:31

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							
Iron	**700**		**ug/L**	**1**	400	100	3/3/2020 16:24	J
Sodium	**3.3**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:24	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**6.1**		**mg/L**	**1**	5.0	0.50	2/28/2020 20:06	J
Nitrate (as N)	**0.13**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 20:06	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**39**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766026** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **MWB-35I** Date Collected: 02/27/20 14:06

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							
Iron	**430**		**ug/L**	**1**	400	100	3/3/2020 16:28	J
Sodium	**2.1**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:28	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**3.1**	**I**	**mg/L**	**1**	5.0	0.50	2/28/2020 20:50	J
Nitrate (as N)	**0.14**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 20:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:15	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**38**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766027** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **Equipment Blank #1** Date Collected: 02/27/20 16:10

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							
Iron	**100**	**U**	**ug/L**	**1**	400	100	3/3/2020 16:32	J
Sodium	**1.1**	**I**	**mg/L**	**1**	1.4	0.35	3/3/2020 16:32	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	2/28/2020 22:18	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	2/28/2020 22:18	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766027** Date Received: 02/28/20 07:00 Matrix: Water
Sample ID: **Equipment Blank #1** Date Collected: 02/27/20 16:10

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)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	3/5/2020 16:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	3/3/2020 14:46	J

Lab ID: **J2002766028** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-32I** Date Collected: 02/28/20 08:37

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							
Iron	**300**	**I**	**ug/L**	**1**	400	100	3/3/2020 16:35	J
Sodium	**3.1**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:35	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.5**	**I**	**mg/L**	**1**	5.0	0.50	2/29/2020 00:52	J
Nitrate (as N)	**0.14**	**I**	**mg/L**	**1**	0.50	0.050	2/29/2020 00:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**50**		**mg/L**	**1**	10	10	3/3/2020 14:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766029** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-34I** Date Collected: 02/28/20 06:56

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							
Iron	**330**	**I**	**ug/L**	**1**	400	100	3/3/2020 16:39	J
Sodium	**3.1**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:39	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.7**	**I**	**mg/L**	**1**	5.0	0.50	2/28/2020 22:40	J
Nitrate (as N)	**0.12**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 22:40	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U,J4**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:27	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**53**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

Lab ID: **J2002766030** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-11S** Date Collected: 02/28/20 09:41

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	3/3/2020 16:43	J
Barium	**43**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:43	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 16:43	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:43	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:43	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:43	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 16:43	J
Iron	**910**		**ug/L**	**1**	400	100	3/3/2020 16:43	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 16:43	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766030** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-11S** Date Collected: 02/28/20 09:41

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 16:43	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 16:43	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:43	J
Vanadium	**1.7**	**I**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 16:43	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	3/15/2020 22:45	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:45	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:45	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	3/16/2020 17:15	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	3/10/2020 21:13	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 21:13	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:13	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 21:13	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 21:13	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 21:13	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 21:13	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 21:13	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 21:13	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:13	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 21:13	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 21:13	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 21:13	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 21:13	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 21:13	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 21:13	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 21:13	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:13	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 21:13	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 21:13	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766030** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-11S** Date Collected: 02/28/20 09:41

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	3/10/2020 21:13	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 21:13	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 21:13	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 21:13	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:13	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 21:13	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 21:13	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:13	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 21:13	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 21:13	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 21:13	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:13	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:13	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 21:13	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:13	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 21:13	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:13	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 21:13	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 21:13	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 21:13	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:13	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 21:13	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 21:13	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:13	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:13	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:13	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 21:13	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 21:13	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/10/2020 21:13	
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		3/10/2020 21:13	
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**	**ug/L**	**1**	0.20	0.11	3/10/2020 21:13	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 21:13	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/10/2020 21:13	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/10/2020 21:13	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 21:13	

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766030** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-11S** Date Collected: 02/28/20 09:41

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	**35**		**mg/L**	**1**	5.0	0.50	2/29/2020 01:36	J
Nitrate (as N)	**0.14**	**I**	**mg/L**	**1**	0.50	0.050	2/29/2020 01:36	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

Lab ID: **J2002766031** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-32S** Date Collected: 02/28/20 09:07

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	3/3/2020 16:47	J
Barium	**13**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:47	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 16:47	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:47	J
Chromium	**2.6**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:47	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:47	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 16:47	J
Iron	**460**		**ug/L**	**1**	400	100	3/3/2020 16:47	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 16:47	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 16:47	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 16:47	J
Sodium	**5.4**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:47	J
Vanadium	**8.8**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:47	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 16:47	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766031** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-32S** Date Collected: 02/28/20 09:07

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	**0.27**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 22:49	J
Selenium	**1.9**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:49	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	3/16/2020 17:18	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	3/10/2020 21:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 21:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 21:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 21:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 21:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 21:40	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 21:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 21:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 21:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 21:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 21:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 21:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 21:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 21:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 21:40	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 21:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 21:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 21:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 21:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 21:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 21:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 21:40	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766031** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-32S** Date Collected: 02/28/20 09:07

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	3/10/2020 21:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 21:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 21:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 21:40	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 21:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 21:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 21:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 21:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 21:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 21:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 21:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 21:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 21:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 21:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 21:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 21:40	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	70-128		3/10/2020 21:40	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 21:40	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/10/2020 21:40	
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	3/10/2020 21:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 21:40	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		3/10/2020 21:40	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 21:40	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/10/2020 21:40	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**9.9**		**mg/L**	**1**	5.0	0.50	2/28/2020 23:46	J
Nitrate (as N)	**0.15**	**I**	**mg/L**	**1**	0.50	0.050	2/28/2020 23:46	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766031** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-32S** Date Collected: 02/28/20 09:07

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ammonia (N)	**0.38**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:31	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

Lab ID: **J2002766032** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-33S** Date Collected: 02/28/20 07:59

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	3/3/2020 16:50	J
Barium	**4.1**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:50	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 16:50	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:50	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:50	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:50	J
Copper	**4.4**	**I**	**ug/L**	**1**	16	4.0	3/3/2020 16:50	J
Iron	**350**	**I**	**ug/L**	**1**	400	100	3/3/2020 16:50	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 16:50	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 16:50	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 16:50	J
Sodium	**8.6**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:50	J
Vanadium	**15**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:50	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 16:50	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	3/15/2020 22:55	J
Selenium	**2.3**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:55	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766032** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-33S** Date Collected: 02/28/20 07:59

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	3/16/2020 17:21	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	3/10/2020 22:06	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:06	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:06	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 22:06	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 22:06	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:06	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 22:06	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 22:06	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:06	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:06	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 22:06	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:06	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 22:06	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 22:06	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 22:06	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 22:06	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 22:06	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:06	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 22:06	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 22:06	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 22:06	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:06	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 22:06	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:06	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:06	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:06	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:06	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:06	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:06	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 22:06	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:06	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:06	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766032** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-33S** Date Collected: 02/28/20 07:59

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:06	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 22:06	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:06	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:06	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:06	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:06	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 22:06	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 22:06	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:06	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 22:06	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:06	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:06	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:06	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:06	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 22:06	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/10/2020 22:06	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/10/2020 22:06	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		3/10/2020 22:06	
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	3/10/2020 22:06	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 22:06	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/10/2020 22:06	
Toluene-d8 (S)	**90**		**%**	**1**	80-121		3/10/2020 22:06	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		3/10/2020 22:06	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	2/28/2020 23:24	J
Nitrate (as N)	**0.53**		**mg/L**	**1**	0.50	0.050	2/28/2020 23:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.40**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:32	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766033** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-34S** Date Collected: 02/28/20 07:25

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	3/3/2020 16:54	J
Barium	**2.6**	**I**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:54	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 16:54	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 16:54	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:54	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 16:54	J
Copper	**5.5**	**I**	**ug/L**	**1**	16	4.0	3/3/2020 16:54	J
Iron	**440**		**ug/L**	**1**	400	100	3/3/2020 16:54	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 16:54	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 16:54	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 16:54	J
Sodium	**68**		**mg/L**	**1**	1.4	0.35	3/3/2020 16:54	J
Vanadium	**36**		**ug/L**	**1**	4.0	1.0	3/3/2020 16:54	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 16:54	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.59**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 22:59	J
Selenium	**3.6**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 22:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 22:59	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	3/16/2020 17:25	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	3/10/2020 22:33	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:33	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:33	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/10/2020 22:33	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 22:33	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:33	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 22:33	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766033** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **MWB-34S** Date Collected: 02/28/20 07:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 22:33	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:33	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:33	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 22:33	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:33	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 22:33	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 22:33	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 22:33	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 22:33	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 22:33	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:33	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 22:33	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 22:33	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 22:33	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:33	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 22:33	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:33	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:33	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:33	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:33	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:33	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:33	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 22:33	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:33	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:33	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:33	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 22:33	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:33	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:33	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:33	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:33	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 22:33	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 22:33	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:33	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 22:33	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:33	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:33	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:33	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:33	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 22:33	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766033** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **MWB-34S** Date Collected: 02/28/20 07:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		3/10/2020 22:33	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		3/10/2020 22:33	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/10/2020 22:33	
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	3/10/2020 22:33	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 22:33	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		3/10/2020 22:33	
Toluene-d8 (S)	**88**		**%**	**1**	80-121		3/10/2020 22:33	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		3/10/2020 22:33	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**160**		**mg/L**	**1**	5.0	0.50	2/28/2020 23:02	J
Nitrate (as N)	**0.76**		**mg/L**	**1**	0.50	0.050	2/28/2020 23:02	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.6**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:34	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**540**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

Lab ID: **J2002766034** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **TRIP** Date Collected: 02/28/20 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	3/10/2020 22:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:59	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766034** Date Received: 02/28/20 11:00 Matrix: Water

Sample ID: **TRIP** Date Collected: 02/28/20 00:00

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	3/10/2020 22:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/10/2020 22:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/10/2020 22:59	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/10/2020 22:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/10/2020 22:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/10/2020 22:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/10/2020 22:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/10/2020 22:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/10/2020 22:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/10/2020 22:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/10/2020 22:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/10/2020 22:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/10/2020 22:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/10/2020 22:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:59	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/10/2020 22:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/10/2020 22:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/10/2020 22:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/10/2020 22:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:59	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/10/2020 22:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/10/2020 22:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/10/2020 22:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/10/2020 22:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/10/2020 22:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/10/2020 22:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/10/2020 22:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/10/2020 22:59	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766034** Date Received: 02/28/20 11:00 Matrix: Water
Sample ID: **TRIP** Date Collected: 02/28/20 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/10/2020 22:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/10/2020 22:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/10/2020 22:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/10/2020 22:59	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/10/2020 22:59	
Toluene-d8 (S)	**91**		**%**	**1**	77-119		3/10/2020 22:59	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		3/10/2020 22:59	
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	3/10/2020 22:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/10/2020 22:59	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/10/2020 22:59	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		3/10/2020 22:59	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/10/2020 22:59	

Lab ID: **J2002766035** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-3** Date Collected: 03/02/20 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 16:37	J
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	3/3/2020 17:09	J
Barium	**41**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:09	J
Calcium	**54**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:09	J
Chromium	**3.9**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:09	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766035** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-3** Date Collected: 03/02/20 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**9.7**	**I**	**ug/L**	**1**	16	4.0	3/3/2020 17:09	J
Iron	**1300**		**ug/L**	**1**	400	100	3/3/2020 17:09	J
Lead	**14**		**ug/L**	**1**	12	3.0	3/3/2020 17:09	J
Magnesium	**4.9**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:09	J
Nickel	**7.7**	**I**	**ug/L**	**1**	24	6.0	3/3/2020 17:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:09	J
Total Hardness (as CaCO3)	**150**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:09	J
Vanadium	**5.8**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:09	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**2.3**		**ug/L**	**1**	0.70	0.11	3/15/2020 23:06	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:06	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:06	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**441**		**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	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	3/12/2020 12:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 12:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 12:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 12:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 12:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 12:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 12:53	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 12:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 12:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 12:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 12:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 12:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 12:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 12:53	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766035** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-3** Date Collected: 03/02/20 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 12:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 12:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 12:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 12:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 12:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 12:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 12:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 12:53	J
Carbon Disulfide	**0.69**	**I**	**ug/L**	**1**	1.0	0.67	3/12/2020 12:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 12:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 12:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 12:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 12:53	J
Chloromethane	**0.94**	**I**	**ug/L**	**1**	1.0	0.21	3/12/2020 12:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 12:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 12:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 12:53	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 12:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 12:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 12:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 12:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 12:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 12:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 12:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 12:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 12:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 12:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 12:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 12:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 12:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 12:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 12:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 12:53	J
1,2-Dichloroethane-d4 (S)	**81**		**%**	**1**	70-128		3/12/2020 12:53	
Toluene-d8 (S)	**82**		**%**	**1**	77-119		3/12/2020 12:53	
Bromofluorobenzene (S)	**91**		**%**	**1**	86-123		3/12/2020 12:53	
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	3/12/2020 12:53	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766035** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-3** Date Collected: 03/02/20 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 12:53	J
1,2-Dichloroethane-d4 (S)	**77**		**%**	**1**	77-125		3/12/2020 12:53	
Toluene-d8 (S)	**82**		**%**	**1**	80-121		3/12/2020 12:53	
Bromofluorobenzene (S)	**85**		**%**	**1**	80-129		3/12/2020 12:53	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**5.0**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:44	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:45	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**2.1**		**mg/L**	**1**	0.50	0.050	3/2/2020 21:08	J
Nitrate + Nitrite	**2.2**		**mg/L**	**1**	0.50	0.050	3/2/2020 21:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.31**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:35	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**2.7**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.25**		**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**77**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Corrected Chlorophyll A	**12**	**1**	**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**370**		**mg/L**	**1**	10	10	3/5/2020 10:39	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766035** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-3** Date Collected: 03/02/20 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**3.2**		**mg/L**	**1**	2.0	2.0	3/3/2020 09:55	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**19**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

Lab ID: **J2002766036** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-6** Date Collected: 03/02/20 06:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 16:41	J
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	3/3/2020 17:12	J
Barium	**30**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:12	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:12	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:12	J
Calcium	**27**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:12	J
Chromium	**3.0**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:12	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:12	J
Copper	**4.0**	**I**	**ug/L**	**1**	16	4.0	3/3/2020 17:12	J
Iron	**360**	**I**	**ug/L**	**1**	400	100	3/3/2020 17:12	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 17:12	J
Magnesium	**2.4**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:12	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 17:12	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:12	J
Total Hardness (as CaCO3)	**78**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:12	J
Vanadium	**4.5**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:12	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:12	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766036** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-6** Date Collected: 03/02/20 06:45

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	**0.38**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 23:29	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:29	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**1180**		**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	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	3/12/2020 13:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 13:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 13:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 13:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 13:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 13:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 13:46	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 13:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 13:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 13:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 13:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 13:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 13:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 13:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 13:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 13:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 13:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 13:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 13:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 13:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 13:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 13:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 13:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 13:46	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766036** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-6** Date Collected: 03/02/20 06:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 13:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 13:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 13:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 13:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 13:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 13:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 13:46	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 13:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 13:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 13:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 13:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 13:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 13:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 13:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 13:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 13:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 13:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 13:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 13:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 13:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 13:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 13:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 13:46	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/12/2020 13:46	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		3/12/2020 13:46	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/12/2020 13:46	
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	3/12/2020 13:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 13:46	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/12/2020 13:46	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		3/12/2020 13:46	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		3/12/2020 13:46	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**2.0**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:45	G

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766036** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-6** Date Collected: 03/02/20 06:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:45	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**0.82**		**mg/L**	**1**	0.50	0.050	3/2/2020 21:30	J
Nitrate + Nitrite	**0.82**		**mg/L**	**1**	0.50	0.050	3/2/2020 21:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.15**		**mg/L**	**5**	0.050	0.040	3/5/2020 16:36	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**1.1**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.16**		**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**43**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Corrected Chlorophyll A	**5.0**		**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**190**		**mg/L**	**1**	10	10	3/5/2020 10:39	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	3/3/2020 09:57	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**8.7**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766037** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-7** Date Collected: 03/02/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 16:44	J
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	3/3/2020 17:16	J
Barium	**25**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:16	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:16	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:16	J
Calcium	**17**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:16	J
Chromium	**4.5**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:16	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:16	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 17:16	J
Iron	**1400**		**ug/L**	**1**	400	100	3/3/2020 17:16	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 17:16	J
Magnesium	**1.9**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:16	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 17:16	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:16	J
Total Hardness (as CaCO3)	**49**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:16	J
Vanadium	**5.9**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:16	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:16	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	3/15/2020 23:36	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:36	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:36	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**98**		**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	J
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766037** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-7** Date Collected: 03/02/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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	3/12/2020 14:12	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 14:12	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:12	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 14:12	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 14:12	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 14:12	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 14:12	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 14:12	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 14:12	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:12	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 14:12	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 14:12	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 14:12	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 14:12	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 14:12	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 14:12	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 14:12	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:12	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 14:12	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 14:12	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 14:12	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 14:12	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 14:12	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 14:12	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:12	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 14:12	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 14:12	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:12	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 14:12	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 14:12	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 14:12	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:12	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:12	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 14:12	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:12	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 14:12	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:12	J

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6681 Southpoint Pkwy Jacksonville, FL 32216
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (904)363-9350
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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766037** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-7** Date Collected: 03/02/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 14:12	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 14:12	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 14:12	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:12	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 14:12	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 14:12	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:12	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:12	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:12	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 14:12	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/12/2020 14:12	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		3/12/2020 14:12	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/12/2020 14:12	
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	3/12/2020 14:12	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 14:12	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/12/2020 14:12	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/12/2020 14:12	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/12/2020 14:12	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**0.89**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:45	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:45	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**0.13**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 21:52	J
Nitrate + Nitrite	**0.13**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 21:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:37	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766037** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-7** Date Collected: 03/02/20 07:21

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Kjeldahl Nitrogen	**0.76**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.14**		**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**82**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Corrected Chlorophyll A	**4.0**	**I**	**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**160**		**mg/L**	**1**	10	10	3/5/2020 10:39	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	3/3/2020 10:00	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**17**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

Lab ID: **J2002766038** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-5** Date Collected: 03/02/20 07:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 16:47	J
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	3/3/2020 17:20	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766038** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-5** Date Collected: 03/02/20 07:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Barium	**26**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:20	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:20	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:20	J
Calcium	**26**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:20	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:20	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:20	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 17:20	J
Iron	**320**	**I**	**ug/L**	**1**	400	100	3/3/2020 17:20	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 17:20	J
Magnesium	**2.1**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:20	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 17:20	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:20	J
Total Hardness (as CaCO3)	**75**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:20	J
Vanadium	**3.2**	**I**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:20	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:20	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	3/15/2020 23:40	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:40	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:40	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**243**		**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	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	3/12/2020 14:39	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 14:39	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:39	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 14:39	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 14:39	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 14:39	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 14:39	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 14:39	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766038** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-5** Date Collected: 03/02/20 07:01

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	3/12/2020 14:39	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:39	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 14:39	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 14:39	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 14:39	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 14:39	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 14:39	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 14:39	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 14:39	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:39	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 14:39	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 14:39	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 14:39	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 14:39	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 14:39	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 14:39	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:39	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 14:39	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 14:39	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:39	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 14:39	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 14:39	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 14:39	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:39	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:39	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 14:39	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:39	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 14:39	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 14:39	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 14:39	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 14:39	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 14:39	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:39	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 14:39	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 14:39	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 14:39	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 14:39	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 14:39	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 14:39	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		3/12/2020 14:39	

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766038** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-5** Date Collected: 03/02/20 07:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**87**		**%**	**1**	77-119		3/12/2020 14:39	
Bromofluorobenzene (S)	**104**		**%**	**1**	86-123		3/12/2020 14:39	
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	3/12/2020 14:39	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 14:39	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		3/12/2020 14:39	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		3/12/2020 14:39	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		3/12/2020 14:39	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**1.2**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:46	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:46	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**0.56**		**mg/L**	**1**	0.50	0.050	3/2/2020 22:14	J
Nitrate + Nitrite	**0.56**		**mg/L**	**1**	0.50	0.050	3/2/2020 22:14	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:38	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**0.59**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.076**	**I**	**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**26**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766038** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-5** Date Collected: 03/02/20 07:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Corrected Chlorophyll A	**4.0**	**I**	**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**170**		**mg/L**	**1**	10	10	3/5/2020 10:39	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	3/3/2020 10:02	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**7.8**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

Lab ID: **J2002766039** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-4** Date Collected: 03/02/20 07:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 16:57	J
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	3/3/2020 17:23	J
Barium	**37**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:23	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:23	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:23	J
Calcium	**26**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:23	J
Chromium	**8.4**		**ug/L**	**1**	8.0	2.0	3/3/2020 17:23	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:23	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 17:23	J
Iron	**1500**		**ug/L**	**1**	400	100	3/3/2020 17:23	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 17:23	J
Magnesium	**2.8**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:23	J
Nickel	**6.9**	**I**	**ug/L**	**1**	24	6.0	3/3/2020 17:23	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766039** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-4** Date Collected: 03/02/20 07:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:23	J
Total Hardness (as CaCO3)	**76**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:23	J
Vanadium	**13**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:23	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.23**	**I**	**ug/L**	**1**	0.70	0.11	3/15/2020 23:47	J
Selenium	**0.89**	**I**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:47	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**10**	**U**	**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	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	3/12/2020 15:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 15:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 15:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 15:05	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 15:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 15:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 15:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 15:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 15:05	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 15:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 15:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 15:05	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766039** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-4** Date Collected: 03/02/20 07:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 15:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 15:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 15:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 15:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:05	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 15:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 15:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 15:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 15:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 15:05	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/12/2020 15:05	
Toluene-d8 (S)	**85**		**%**	**1**	77-119		3/12/2020 15:05	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		3/12/2020 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	3/12/2020 15:05	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 15:05	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/12/2020 15:05	
Toluene-d8 (S)	**85**		**%**	**1**	80-121		3/12/2020 15:05	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		3/12/2020 15:05	

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766039** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-4** Date Collected: 03/02/20 07:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**0.82**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:46	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:46	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**0.23**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 22:36	J
Nitrate + Nitrite	**0.23**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 22:36	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:39	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**0.59**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.10**		**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**50**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Corrected Chlorophyll A	**5.6**		**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	3/6/2020 14:54	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	3/3/2020 10:05	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**8.0**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766040** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-1** Date Collected: 03/02/20 09:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000011**	**U**	**mg/L**	**1**	0.00010	0.000011	3/5/2020 17:00	J
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	3/3/2020 17:27	J
Barium	**28**		**ug/L**	**1**	4.0	1.0	3/3/2020 17:27	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	3/3/2020 17:27	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:27	J
Calcium	**15**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:27	J
Chromium	**2.1**	**I**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:27	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	3/3/2020 17:27	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	3/3/2020 17:27	J
Iron	**670**		**ug/L**	**1**	400	100	3/3/2020 17:27	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	3/3/2020 17:27	J
Magnesium	**2.2**		**mg/L**	**1**	0.40	0.10	3/3/2020 17:27	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	3/3/2020 17:27	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	3/3/2020 17:27	J
Total Hardness (as CaCO3)	**46**		**mg/L**	**1**	0.16	0.10	3/3/2020 17:27	J
Vanadium	**2.8**	**I**	**ug/L**	**1**	4.0	1.0	3/3/2020 17:27	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	3/3/2020 17:27	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	3/15/2020 23:52	J
Selenium	**0.58**	**U**	**ug/L**	**1**	5.0	0.58	3/15/2020 23:52	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	3/15/2020 23:52	J
Microbiology								
Analysis Desc: Fecal Coliform,SM9223D,Water	Analytical Method: COLILERT-18 (Fecal Coliforms)							
Coliform Fecal	**1020**		**MPN/100 mL**	**10**	10	10	3/2/2020 12:18	J
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766040** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-1** Date Collected: 03/02/20 09:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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	3/12/2020 15:32	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:32	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:32	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 15:32	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 15:32	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:32	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 15:32	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 15:32	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:32	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:32	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 15:32	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:32	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 15:32	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 15:32	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 15:32	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 15:32	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 15:32	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:32	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 15:32	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 15:32	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 15:32	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:32	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 15:32	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:32	J
Chlorobenzene	**0.41**	**I**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:32	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:32	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:32	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:32	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:32	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 15:32	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:32	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:32	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:32	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 15:32	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:32	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:32	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:32	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766040** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **SW-1** Date Collected: 03/02/20 09:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:32	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 15:32	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 15:32	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:32	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 15:32	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:32	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:32	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:32	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:32	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 15:32	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		3/12/2020 15:32	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		3/12/2020 15:32	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/12/2020 15:32	
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	3/12/2020 15:32	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 15:32	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	77-125		3/12/2020 15:32	
Toluene-d8 (S)	**87**		**%**	**1**	80-121		3/12/2020 15:32	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/12/2020 15:32	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**1.4**		**mg/L**	**1**	0.40	0.18	3/11/2020 10:46	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0**	**U**	**mg/L**	**1**	0.050		3/11/2020 10:46	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate (as N)	**0.13**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 22:58	J
Nitrate + Nitrite	**0.13**	**I**	**mg/L**	**1**	0.50	0.050	3/2/2020 22:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.040**	**U,J4**	**mg/L**	**5**	0.050	0.040	3/5/2020 16:49	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766040** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **SW-1** Date Collected: 03/02/20 09:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Kjeldahl Nitrogen	**1.3**		**mg/L**	**1**	0.10	0.085	3/4/2020 10:37	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.055**	**U**	**mg/L**	**1**	0.10	0.055	3/4/2020 10:37	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**120**		**mg/L**	**1**	20	7.2	3/10/2020 16:56	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Corrected Chlorophyll A	**6.4**		**mg/m3**	**1**	5.0	2.5	3/12/2020 17:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**170**		**mg/L**	**1**	10	10	3/6/2020 14:54	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	3/3/2020 10:07	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**30**		**mg/L**	**1**	1.0	0.65	3/5/2020 10:15	G

Lab ID: **J2002766041** Date Received: 03/02/20 10:10 Matrix: Water
Sample ID: **Trip** Date Collected: 03/02/20 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	3/12/2020 15:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	3/12/2020 15:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	3/12/2020 15:58	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766041** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **Trip** Date Collected: 03/02/20 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	3/12/2020 15:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	3/12/2020 15:58	J
1,2-Dibromo-3-Chloropropane	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	3/12/2020 15:58	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	3/12/2020 15:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	3/12/2020 15:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	3/12/2020 15:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	3/12/2020 15:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	3/12/2020 15:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	3/12/2020 15:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	3/12/2020 15:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	3/12/2020 15:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	3/12/2020 15:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	3/12/2020 15:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:58	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	3/12/2020 15:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	3/12/2020 15:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	3/12/2020 15:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	3/12/2020 15:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	3/12/2020 15:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:58	J
Ethylene Dibromide (EDB)	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	3/12/2020 15:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	3/12/2020 15:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	3/12/2020 15:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	3/12/2020 15:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	3/12/2020 15:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	3/12/2020 15:58	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	3/12/2020 15:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	3/12/2020 15:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	3/12/2020 15:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	3/12/2020 15:58	J

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ANALYTICAL RESULTS

Workorder: J2002766 Trail Ridge Landfill

Lab ID: **J2002766041** Date Received: 03/02/20 10:10 Matrix: Water

Sample ID: **Trip** Date Collected: 03/02/20 00:00

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	3/12/2020 15:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	3/12/2020 15:58	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		3/12/2020 15:58	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		3/12/2020 15:58	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		3/12/2020 15:58	
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	3/12/2020 15:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	3/12/2020 15:58	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		3/12/2020 15:58	
Toluene-d8 (S)	**89**		**%**	**1**	80-121		3/12/2020 15:58	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		3/12/2020 15:58	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J2002766 Trail Ridge Landfill

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]	samples 35-40 filtered 3/2/20 15:16
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: J2002766 Trail Ridge Landfill

QC Batch: WCAj/1462 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J2002766001, J2002766002, J2002766003, J2002766004, J2002766005, J2002766006, J2002766007, J2002766008,

METHOD BLANK: 3396999

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: 3397000 3397001

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	100	90-110	2	10	
Nitrate (as N)	mg/L	2	2.0	2.0	100	101	90-110	1	10	

MATRIX SPIKE SAMPLE: 3397002 Original: J2002766002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	7	20	25	90	90-110	
Nitrate (as N)	mg/L	0.12	2	2.0	96	90-110	

MATRIX SPIKE SAMPLE: 3397003 Original: J2002766006

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	5.2	20	27	111	90-110	
Nitrate (as N)	mg/L	0.16	2	2.6	124	90-110	

QC Batch: WCAj/1465 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J2002766001, J2002766002, J2002766003, J2002766004, J2002766005, J2002766006, J2002766007, J2002766008,

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3397233

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3397234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	300	100	85-115	

SAMPLE DUPLICATE: 3397235 Original: J2002689005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	700	700	0	10	

QC Batch: WCAj/1467 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J2002766017, J2002766018, J2002766019, J2002766024

METHOD BLANK: 3397860

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: 3397861 3397862

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	96	99	90-110	2	10	
Nitrate (as N)	mg/L	2	2.0	2.0	100	98	90-110	2	10	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3398328 Original: J2002824002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	110	40	150	104	90-110	
Nitrate (as N)	mg/L	5.1	4	9.3	105	90-110	

QC Batch: WCAj/1480 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J2002766020, J2002766021, J2002766022, J2002766025, J2002766026, J2002766027, J2002766028, J2002766029,

METHOD BLANK: 3398980

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: 3398981 3398982

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	99	97	90-110	2	10	
Nitrate (as N)	mg/L	2	2.0	1.9	99	97	90-110	2	10	

MATRIX SPIKE SAMPLE: 3398983 Original: J2002766025

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	6.1	20	26	98	90-110	
Nitrate (as N)	mg/L	0.13	2	2.0	92	90-110	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3398984 Original: J2002766028

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	4.5	20	25	104	90-110	
Nitrate (as N)	mg/L	0.14	2	2.0	93	90-110	

QC Batch: WCAj/1486 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3399912

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate (as N)	mg/L	0.050	0.050	U
Nitrate + Nitrite	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3399913 3399914

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Nitrate (as N)	mg/L	2	2.0	2.0	101	101	90-110	0	10	
Nitrate + Nitrite	mg/L		4.2	4.1				1	10	

MATRIX SPIKE SAMPLE: 3399915 Original: J2002878001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Nitrate (as N)	mg/L	0	2	1.8	92	90-110	
Nitrate + Nitrite	mg/L			3.9			

QC Batch: DGMj/1220 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 03/03/2020 03:30
Associated Lab Samples: J2002766017, J2002766018, J2002766019, J2002766020, J2002766021

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3400305

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	8.0	8.0	U
Arsenic	ug/L	8.0	8.0	U
Barium	ug/L	3.0	3.0	U
Beryllium	ug/L	2.0	2.0	U
Cadmium	ug/L	0.50	0.50	U
Cobalt	ug/L	1.0	1.0	U
Chromium	ug/L	5.0	5.0	U
Copper	ug/L	10	10	U
Iron	ug/L	200	200	U
Sodium	mg/L	0.80	0.80	U
Nickel	ug/L	10	10	U
Lead	ug/L	3.0	3.0	U
Vanadium	ug/L	2.0	2.0	U
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3400306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	160	140	90	80-120	
Arsenic	ug/L	160	140	86	80-120	
Barium	ug/L	60	53	89	80-120	
Beryllium	ug/L	40	36	89	80-120	
Cadmium	ug/L	10	8.7	87	80-120	
Cobalt	ug/L	20	18	89	80-120	
Chromium	ug/L	100	90	90	80-120	
Copper	ug/L	200	180	90	80-120	
Iron	ug/L	4000	3600	91	80-120	
Sodium	mg/L	16	14	91	80-120	
Nickel	ug/L	200	180	90	80-120	
Lead	ug/L	60	54	90	80-120	
Vanadium	ug/L	40	35	88	80-120	
Zinc	ug/L	1000	890	89	80-120	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400307 3400308 Original: J2002799001

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	160	130	140	80	85	75-125	6	20	
Arsenic	ug/L	2.1	160	120	130	78	81	75-125	4	20	
Barium	ug/L	6	60	54	57	79	86	75-125	7	20	
Beryllium	ug/L	0	40	32	33	79	84	75-125	6	20	
Cadmium	ug/L	0	10	7.6	8.2	76	82	75-125	8	20	
Cobalt	ug/L	0	20	16	17	79	86	75-125	8	20	
Chromium	ug/L	1	100	80	85	80	85	75-125	6	20	
Copper	ug/L	1.7	200	160	170	80	84	75-125	6	20	
Iron	ug/L	2400	4000	5400	5900	76	87	75-125	8	20	
Sodium	mg/L	9	16	21	23	75	86	75-125	8	20	
Nickel	ug/L	3.1	200	160	170	80	85	75-125	6	20	
Lead	ug/L	0	60	48	49	80	82	75-125	3	20	
Vanadium	ug/L	2.4	40	34	36	78	84	75-125	6	20	
Zinc	ug/L	6.5	1000	790	840	79	84	75-125	6	20	

QC Batch: DGMj/1221 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 03/03/2020 03:30

Associated Lab Samples: J2002766022, J2002766024, J2002766025, J2002766026, J2002766027, J2002766028, J2002766029, J2002766030,

METHOD BLANK: 3400309

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	8.0	8.0	U
Arsenic	ug/L	8.0	8.0	U
Barium	ug/L	3.0	3.0	U
Beryllium	ug/L	2.0	2.0	U
Calcium	mg/L	0.20	0.20	U
Cadmium	ug/L	0.50	0.50	U
Cobalt	ug/L	1.0	1.0	U
Chromium	ug/L	5.0	5.0	U
Copper	ug/L	10	10	U
Iron	ug/L	200	200	U
Magnesium	mg/L	0.10	0.10	U
Sodium	mg/L	0.80	0.80	U
Nickel	ug/L	10	10	U
Lead	ug/L	3.0	3.0	U
Vanadium	ug/L	2.0	2.0	U
Zinc	ug/L	50	50	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3400310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	160	140	89	80-120	
Arsenic	ug/L	160	130	84	80-120	
Barium	ug/L	60	52	87	80-120	
Beryllium	ug/L	40	35	87	80-120	
Calcium	mg/L	4	3.4	85	80-120	
Cadmium	ug/L	10	8.4	84	80-120	
Cobalt	ug/L	20	17	87	80-120	
Chromium	ug/L	100	87	87	80-120	
Copper	ug/L	200	180	88	80-120	
Iron	ug/L	4000	3600	90	80-120	
Magnesium	mg/L	2	1.8	88	80-120	
Sodium	mg/L	16	14	89	80-120	
Nickel	ug/L	200	180	88	80-120	
Lead	ug/L	60	52	87	80-120	
Vanadium	ug/L	40	34	85	80-120	
Zinc	ug/L	1000	860	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400311 3400312 Original: J2002766022

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	160	130	140	84	90	75-125	7	20	
Arsenic	ug/L	0.5	160	130	140	80	86	75-125	7	20	
Barium	ug/L	140	60	180	190	70	97	75-125	9	20	
Beryllium	ug/L	0.1	40	33	34	82	86	75-125	5	20	
Calcium	mg/L	20	4	22	23	51	78	75-125	5	20	
Cadmium	ug/L	0	10	7.9	8.5	79	85	75-125	7	20	
Cobalt	ug/L	0	20	16	18	82	89	75-125	9	20	
Chromium	ug/L	9.4	100	91	95	82	85	75-125	4	20	
Copper	ug/L	4.1	200	170	190	84	93	75-125	11	20	
Iron	ug/L	2600	4000	5800	6200	80	89	75-125	6	20	
Magnesium	mg/L	4.3	2	5.6	6.1	67	89	75-125	7	20	
Sodium	mg/L	14	16	26	29	77	92	75-125	9	20	
Nickel	ug/L	14	200	180	190	81	87	75-125	7	20	
Lead	ug/L	0	60	47	51	78	86	75-125	10	20	
Vanadium	ug/L	4.3	40	37	43	82	98	75-125	15	20	
Zinc	ug/L	11	1000	820	890	82	89	75-125	8	20	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

QC Batch: DGMj/1222 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 03/03/2020 03:30
Associated Lab Samples: J2002766017, J2002766018, J2002766019, J2002766020, J2002766021, J2002766022

METHOD BLANK: 3400315

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Selenium	ug/L	0.58	0.58	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3400316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Selenium	ug/L	50	47	94	80-120	
Antimony	ug/L	50	46	92	80-120	
Thallium	ug/L	50	45	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400317 3400318 Original: T2003219026

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Selenium	ug/L	0.45	50	45	45	91	90	75-125	1	20	
Antimony	ug/L	0.33	50	47	48	94	95	75-125	1	20	
Thallium	ug/L	0.2	50	47	48	93	95	75-125	2	20	

QC Batch: WCAj/1500 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J2002766010, J2002766011, J2002766012, J2002766013, J2002766014, J2002766015, J2002766017, J2002766018,

METHOD BLANK: 3401141

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: J2002766 Trail Ridge Landfill

METHOD BLANK: 3401141

LABORATORY CONTROL SAMPLE: 3401142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	300	100	85-115	

SAMPLE DUPLICATE: 3401143 Original: J2002766010

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	370	370	1	10	

QC Batch: WCAj/1501 Analysis Method: SM 5210B

QC Batch Method: SM 5210B Prepared:

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3401154

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Biochemical Oxygen Demand	mg/L	2.0	2.0	U

LABORATORY CONTROL SAMPLE: 3401155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Biochemical Oxygen Demand	mg/L	200	210	106	84.6-115.4	

QC Batch: WCAg/1679 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J2002766001, J2002766002, J2002766003

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3401428

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3401429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.53	105	90-110	

LABORATORY CONTROL SAMPLE: 3401430

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: 3401431 3401432 Original: J2002847001

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	13	10	21	22	78	92	90-110	7	10	

QC Batch: WCAg/1680 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J2002766004, J2002766005, J2002766006, J2002766007, J2002766008, J2002766009, J2002766010, J2002766011,

METHOD BLANK: 3401435

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: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3401436

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: 3401437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3401438 3401439 Original: J2002766004

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	1.7	1.9	86	93	90-110	9	10	

QC Batch: WCAg/1701 Analysis Method: EPA 351.2
QC Batch Method: Copper Sulfate Digestion Prepared: 03/03/2020 16:15
Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3404849

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Kjeldahl Nitrogen	mg/L	0.085	0.085	U

METHOD BLANK: 3404850

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Phosphorus (as P)	mg/L	0.055	0.055	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3404851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Kjeldahl Nitrogen	mg/L	1	1.1	107	90-110	

LABORATORY CONTROL SAMPLE: 3404852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Phosphorus (as P)	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3404853 3404855 Original: G2002125002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Total Kjeldahl Nitrogen	mg/L	0.77	1	1.6	1.8	87	104	90-110	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3404854 3404856 Original: G2002125002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Total Phosphorus (as P)	mg/L	3.5	1	4.8	4.8	130	131	80-120	0	20	

QC Batch: WCAg/1701 Analysis Method: EPA 365.4

QC Batch Method: Copper Sulfate Digestion Prepared: 03/03/2020 16:15

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3404849

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Kjeldahl Nitrogen	mg/L	0.085	0.085	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3404850

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Phosphorus (as P)	mg/L	0.055	0.055	U

LABORATORY CONTROL SAMPLE: 3404851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Kjeldahl Nitrogen	mg/L	1	1.1	107	90-110	

LABORATORY CONTROL SAMPLE: 3404852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Phosphorus (as P)	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3404853 3404855 Original: G2002125002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Total Kjeldahl Nitrogen	mg/L	0.77	1	1.6	1.8	87	104	90-110	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3404854 3404856 Original: G2002125002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Total Phosphorus (as P)	mg/L	3.5	1	4.8	4.8	130	131	80-120	0	20	

QC Batch: DGMj/1237 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Prepared: 03/05/2020 11:40
Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3405293

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	mg/L	0.000011	0.000011	U

LABORATORY CONTROL SAMPLE: 3405294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	mg/L	0.002	0.0018	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405295 3405296 Original: J2003081001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/L	0	0.002	0.0019	0.0019	95	95	70-130	1	20	

QC Batch: WCAj/1535 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J2002766029, J2002766030, J2002766031, J2002766032, J2002766033, J2002766035, J2002766036, J2002766037,

METHOD BLANK: 3405614

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3405615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	103	85-115	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

SAMPLE DUPLICATE: 3406614 Original: J2002766029

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	53	56	6	10	

QC Batch: MICj/1260 Analysis Method: COLILERT-18 (Fecal Coliforms)
QC Batch Method: COLILERT-18 (Fecal Coliforms) Prepared:
Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3406428

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Microbiology				
Coliform Fecal	MPN/100	1	1	U

QC Batch: WCAg/1727 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J2002766014, J2002766015, J2002766017

METHOD BLANK: 3406758

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3406759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.49	99	90-110	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3406760

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: 3406761 3406762 Original: G2002183004

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	41	20	61	61	104	99	90-110	2	10	

QC Batch: WCAg/1728 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J2002766018, J2002766019, J2002766020, J2002766021, J2002766022, J2002766024, J2002766025, J2002766026,

METHOD BLANK: 3406768

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3406769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.47	94	90-110	

LABORATORY CONTROL SAMPLE: 3406770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.22	110	90-110	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406771 3406772 Original: J2002766018

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	2.6	2	4.1	4.8	76	109	90-110	15	10	

QC Batch: WCAg/1729 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J2002766029, J2002766030, J2002766031, J2002766032, J2002766033, J2002766035, J2002766036, J2002766037,

METHOD BLANK: 3406782

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3406783

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: 3406784

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: 3406785 3406786 Original: J2002766029

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	1.8	1.7	90	86	90-110	4	10	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

QC Batch: WCAg/1730 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J2002766040

METHOD BLANK: 3406793

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3406794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.50	99	90-110	

LABORATORY CONTROL SAMPLE: 3406795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406796 3406797 Original: J2002766040

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	1.7	1.7	85	86	90-110	2	10	

QC Batch: WCAj/1553 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J2002766039, J2002766040

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3407895

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3407896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	300	101	85-115	

SAMPLE DUPLICATE: 3407897 Original: J2002766039

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	180	0	10	

QC Batch: WCAg/1746 Analysis Method: SM 5310B

QC Batch Method: SM 5310B Prepared:

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3408412

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Organic Carbon	mg/L	0.65	0.65	U

METHOD BLANK: 3408418

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Organic Carbon	mg/L	0.65	0.65	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3408414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3408415 3408416 Original: G2002223004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Total Organic Carbon	mg/L	0.34	25	25	25	100	100	90-110	0	10	

QC Batch: DGMj/1247 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 03/10/2020 03:30
Associated Lab Samples: J2002766001, J2002766002, J2002766003, J2002766004, J2002766005, J2002766006, J2002766007

METHOD BLANK: 3409649

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	8.0	8.0	U
Arsenic	ug/L	8.0	8.0	U
Barium	ug/L	3.0	3.0	U
Beryllium	ug/L	2.0	2.0	U
Cadmium	ug/L	0.50	0.50	U
Cobalt	ug/L	1.0	1.0	U
Chromium	ug/L	5.0	5.0	U
Copper	ug/L	10	10	U
Iron	ug/L	200	200	U
Sodium	mg/L	0.80	0.80	U
Nickel	ug/L	10	10	U
Lead	ug/L	3.0	3.0	U
Vanadium	ug/L	2.0	2.0	U
Zinc	ug/L	50	50	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE: 3409650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	160	150	94	80-120	
Arsenic	ug/L	160	140	90	80-120	
Barium	ug/L	60	58	97	80-120	
Beryllium	ug/L	40	37	94	80-120	
Cadmium	ug/L	10	9.8	98	80-120	
Cobalt	ug/L	20	19	95	80-120	
Chromium	ug/L	100	93	93	80-120	
Copper	ug/L	200	180	92	80-120	
Iron	ug/L	4000	3700	92	80-120	
Sodium	mg/L	16	15	95	80-120	
Nickel	ug/L	200	190	97	80-120	
Lead	ug/L	60	58	96	80-120	
Vanadium	ug/L	40	37	93	80-120	
Zinc	ug/L	1000	960	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409651 3409652 Original: S2000562001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0.4	160	150	150	96	97	75-125	1	20	
Arsenic	ug/L	2.5	160	140	150	89	96	75-125	7	20	
Barium	ug/L	52	60	110	120	99	109	75-125	5	20	
Beryllium	ug/L	0.3	40	36	37	89	93	75-125	4	20	
Cadmium	ug/L	0.8	10	10	10	93	96	75-125	3	20	
Cobalt	ug/L	1.1	20	19	20	90	96	75-125	6	20	
Chromium	ug/L	4.1	100	90	94	90	94	75-125	4	20	
Copper	ug/L	44	200	230	240	91	98	75-125	6	20	
Iron	ug/L	2700	4000	6500	7000	94	106	75-125	7	20	
Sodium	mg/L	13	16	29	30	101	109	75-125	5	20	
Nickel	ug/L	8.5	200	190	200	94	99	75-125	5	20	
Lead	ug/L	3.8	60	55	60	86	93	75-125	7	20	
Vanadium	ug/L	2.3	40	38	41	90	97	75-125	7	20	
Zinc	ug/L	250	1000	1200	1200	94	100	75-125	5	20	

QC Batch: DGMj/1248 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 03/10/2020 03:30

Associated Lab Samples: J2002766008, J2002766009, J2002766010, J2002766011, J2002766012, J2002766013, J2002766014, J2002766015

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3409657

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	8.0	8.0	U
Arsenic	ug/L	8.0	8.0	U
Barium	ug/L	3.0	3.0	U
Beryllium	ug/L	2.0	2.0	U
Cadmium	ug/L	0.50	0.50	U
Cobalt	ug/L	1.0	1.0	U
Chromium	ug/L	5.0	5.0	U
Copper	ug/L	10	10	U
Iron	ug/L	200	200	U
Sodium	mg/L	0.80	0.80	U
Nickel	ug/L	10	10	U
Lead	ug/L	3.0	3.0	U
Vanadium	ug/L	2.0	2.0	U
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3409658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	160	150	96	80-120	
Arsenic	ug/L	160	160	97	80-120	
Barium	ug/L	60	61	101	80-120	
Beryllium	ug/L	40	39	97	80-120	
Cadmium	ug/L	10	10	102	80-120	
Cobalt	ug/L	20	20	100	80-120	
Chromium	ug/L	100	94	94	80-120	
Copper	ug/L	200	180	92	80-120	
Iron	ug/L	4000	3800	95	80-120	
Sodium	mg/L	16	15	95	80-120	
Nickel	ug/L	200	210	103	80-120	
Lead	ug/L	60	60	100	80-120	
Vanadium	ug/L	40	38	95	80-120	
Zinc	ug/L	1000	1000	102	80-120	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3409659 3409660 Original: J2002766008

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	160	150	150	95	94	75-125	1	20	
Arsenic	ug/L	0	160	160	160	100	101	75-125	1	20	
Barium	ug/L	7.2	60	68	68	101	101	75-125	0	20	
Beryllium	ug/L	0.4	40	39	39	97	98	75-125	0	20	
Cadmium	ug/L	0	10	10	10	101	100	75-125	1	20	
Cobalt	ug/L	0	20	20	20	101	100	75-125	1	20	
Chromium	ug/L	1.2	100	95	94	95	94	75-125	1	20	
Copper	ug/L	0	200	180	180	92	91	75-125	1	20	
Iron	ug/L	270	4000	4100	4000	95	94	75-125	1	20	
Sodium	mg/L	16	16	32	31	97	94	75-125	1	20	
Nickel	ug/L	1.4	200	210	210	103	103	75-125	0	20	
Lead	ug/L	2.2	60	62	63	104	105	75-125	0	20	
Vanadium	ug/L	6.8	40	44	46	94	99	75-125	4	20	
Zinc	ug/L	4.7	1000	1000	1000	103	103	75-125	0	20	

QC Batch: DGMj/1257 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 03/11/2020 03:30

Associated Lab Samples: J2002766007, J2002766008, J2002766009, J2002766010, J2002766011, J2002766012, J2002766013, J2002766014,

METHOD BLANK: 3411297

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Selenium	ug/L	0.58	0.58	U
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3411298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Selenium	ug/L	50	42	85	80-120	
Antimony	ug/L	50	41	81	80-120	
Thallium	ug/L	50	41	82	80-120	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3411299 3411300 Original: J2002766007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Selenium	ug/L	1.1	50	40	47	79	91	75-125	14	20	
Antimony	ug/L	0.46	50	45	52	89	103	75-125	15	20	
Thallium	ug/L	0.029	50	42	46	83	92	75-125	11	20	

QC Batch: MSVj/1360 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 03/10/2020 11:45

Associated Lab Samples: J2002766007, J2002766008, J2002766009, J2002766010, J2002766011, J2002766012, J2002766013, J2002766014,

METHOD BLANK: 3412429

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

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3412429

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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
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
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
1,2-Dibromo-3-Chloropropane	ug/L	3.1	3.1	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)	%	92	70-128	
Toluene-d8 (S)	%	88	77-119	
Bromofluorobenzene (S)	%	102	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3412430 3412431

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	102	101		2		
Vinyl Chloride	ug/L	20	21	21	104	103	70-130	1	20	
Bromomethane	ug/L	20	20	16	99	82		19		
Chloroethane	ug/L	20	21	21	107	104		3		
Trichlorofluoromethane	ug/L	20	23	23	116	113		2		
Acetone	ug/L	20	17	17	86	85		1		
1,1-Dichloroethylene	ug/L	20	24	23	118	115	70-130	3	20	
Iodomethane (Methyl Iodide)	ug/L	20	11	8.7	55	44		23		
Acrylonitrile	ug/L	20	23	22	116	111		4		
Methylene Chloride	ug/L	20	25	23	123	117		5		
Carbon Disulfide	ug/L	20	22	22	112	112		0		
trans-1,2-Dichloroethylene	ug/L	20	23	22	114	112		2		
1,1-Dichloroethane	ug/L	20	23	23	117	115		2		
Vinyl Acetate	ug/L	20	26	19	132	96		32		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE & LCSD: 3412430 3412431

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	20	23	22	115	110		5		
cis-1,2-Dichloroethylene	ug/L	20	23	23	117	113	70-130	3	20	
Bromochloromethane	ug/L	20	24	23	120	115		4		
Chloroform	ug/L	20	24	23	120	117	70-130	2	20	
1,2-Dichloroethane	ug/L	20	22	22	110	111		1		
1,1,1-Trichloroethane	ug/L	20	23	23	116	114		2		
Carbon Tetrachloride	ug/L	20	24	23	119	115		3		
Benzene	ug/L	20	24	23	118	116	70-130	2	20	
Dibromomethane	ug/L	20	23	23	116	113		3		
1,2-Dichloropropane	ug/L	20	23	23	116	113		2		
Trichloroethene	ug/L	20	23	23	113	113	70-130	1	20	
Bromodichloromethane	ug/L	20	24	23	119	116		2		
cis-1,3-Dichloropropene	ug/L	20	24	23	120	114		5		
4-Methyl-2-pentanone (MIBK)	ug/L	20	24	23	120	115		4		
trans-1,3-Dichloropropylene	ug/L	20	24	23	121	115		5		
1,1,2-Trichloroethane	ug/L	20	23	22	117	112		5		
Toluene	ug/L	20	19	19	97	93	70-130	4	20	
2-Hexanone	ug/L	20	21	20	105	99		6		
Dibromochloromethane	ug/L	20	21	20	104	100		4		
Ethylene Dibromide (EDB)	ug/L	20	21	21	107	104		3		
Tetrachloroethylene (PCE)	ug/L	20	20	20	101	98	70-130	3	20	
1,1,1,2-Tetrachloroethane	ug/L	20	21	20	107	102		4		
Chlorobenzene	ug/L	20	21	20	105	101	70-130	4	20	
Ethylbenzene	ug/L	20	21	20	104	101	70-130	3	20	
Bromoform	ug/L	20	19	19	97	95		2		
Styrene	ug/L	20	21	21	106	103		3		
1,1,2,2-Tetrachloroethane	ug/L	20	22	20	109	99		10		
1,2,3-Trichloropropane	ug/L	20	23	18	116	92		23		
1,4-Dichlorobenzene	ug/L	20	19	19	97	93		4		
1,2-Dichlorobenzene	ug/L	20	20	19	98	94	70-130	5	20	
1,2-Dibromo-3-Chloropropane	ug/L	20	20	18	98	89		9		
Xylene (Total)	ug/L	60	63	60	106	100	70-130	5	20	
1,2-Dichloroethane-d4 (S)	%				90	91	70-128	1		
Toluene-d8 (S)	%				88	89	77-119	1		
Bromofluorobenzene (S)	%				95	95	86-123	1		

MATRIX SPIKE SAMPLE: 3412432 Original: J2002766007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3412432 Original: J2002766007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0	20	22	108		
Vinyl Chloride	ug/L	0	20	21	103	70-130	
Bromomethane	ug/L	0	20	20	101		
Chloroethane	ug/L	0	20	22	108		
Trichlorofluoromethane	ug/L	0	20	22	112		
Acetone	ug/L	0	20	19	95		
1,1-Dichloroethylene	ug/L	0	20	22	112	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	11	54		
Acrylonitrile	ug/L	0	20	23	115		
Methylene Chloride	ug/L	0	20	19	97		
Carbon Disulfide	ug/L	0	20	21	103		
trans-1,2-Dichloroethylene	ug/L	0	20	22	110		
1,1-Dichloroethane	ug/L	0	20	22	111		
Vinyl Acetate	ug/L	0	20	21	105		
2-Butanone (MEK)	ug/L	0	20	22	110		
cis-1,2-Dichloroethylene	ug/L	0	20	22	110	70-130	
Bromochloromethane	ug/L	0	20	23	113		
Chloroform	ug/L	0	20	22	112	70-130	
1,2-Dichloroethane	ug/L	0	20	22	109		
1,1,1-Trichloroethane	ug/L	0	20	22	112		
Carbon Tetrachloride	ug/L	0	20	22	109		
Benzene	ug/L	0	20	23	113	70-130	
Dibromomethane	ug/L	0	20	22	112		
1,2-Dichloropropane	ug/L	0	20	22	111		
Trichloroethene	ug/L	0	20	21	104	70-130	
Bromodichloromethane	ug/L	0	20	23	115		
cis-1,3-Dichloropropene	ug/L	0	20	22	111		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	23	117		
trans-1,3-Dichloropropylene	ug/L	0	20	22	109		
1,1,2-Trichloroethane	ug/L	0	20	22	111		
Toluene	ug/L	0	20	18	89	70-130	
2-Hexanone	ug/L	0	20	20	102		
Dibromochloromethane	ug/L	0	20	19	97		
Ethylene Dibromide (EDB)	ug/L	0	20	20	99		
Tetrachloroethylene (PCE)	ug/L	0	20	18	90	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	20	99		
Chlorobenzene	ug/L	0	20	19	97	70-130	
Ethylbenzene	ug/L	0	20	20	98	70-130	
Bromoform	ug/L	0	20	19	94		
Styrene	ug/L	0	20	20	99		
1,1,2,2-Tetrachloroethane	ug/L	0	20	21	103		
1,2,3-Trichloropropane	ug/L	0	20	21	105		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3412432 Original: J2002766007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	0	20	18	88		
1,2-Dichlorobenzene	ug/L	0	20	18	93	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	20	18	90		
Xylene (Total)	ug/L	0	60	59	99	70-130	
1,2-Dichloroethane-d4 (S)	%	91			95	70-128	
Toluene-d8 (S)	%	89			89	77-119	
Bromofluorobenzene (S)	%	103			97	86-123	

QC Batch: MSVj/1362 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 03/10/2020 11:45

Associated Lab Samples: J2002766007, J2002766008, J2002766009, J2002766010, J2002766011, J2002766012, J2002766013, J2002766014,

METHOD BLANK: 3412462

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)	%	88	80-121	
Bromofluorobenzene (S)	%	95	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3412463 3412464

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	0.81	0.79	101	99	70-130	2	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.71	0.75	89	94	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%				86	93	77-125	7		
Toluene-d8 (S)	%				90	89	80-121	1		
Bromofluorobenzene (S)	%				94	96	80-129	2		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3412465 Original: J2002766008

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.74	93	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.69	86	70-130	
1,2-Dichloroethane-d4 (S)	%	88			91	77-125	
Toluene-d8 (S)	%	90			91	80-121	
Bromofluorobenzene (S)	%	96			97	80-129	

QC Batch: MSVj/1364 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 03/10/2020 11:45

Associated Lab Samples: J2002766032, J2002766033, J2002766034

METHOD BLANK: 3412476

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

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3412476

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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
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
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
1,2-Dibromo-3-Chloropropane	ug/L	3.1	3.1	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)	%	92	70-128	
Toluene-d8 (S)	%	88	77-119	
Bromofluorobenzene (S)	%	102	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3412477 3412478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	20	21	102	103		0		
Vinyl Chloride	ug/L	20	21	19	104	97	70-130	6	20	
Bromomethane	ug/L	20	20	17	99	83		18		
Chloroethane	ug/L	20	21	21	107	103		4		
Trichlorofluoromethane	ug/L	20	23	21	116	107		8		
Acetone	ug/L	20	17	17	86	84		2		
1,1-Dichloroethylene	ug/L	20	24	21	118	106	70-130	10	20	
Iodomethane (Methyl Iodide)	ug/L	20	11	8.7	55	44		24		
Acrylonitrile	ug/L	20	23	21	116	104		11		
Methylene Chloride	ug/L	20	25	22	123	109		12		
Carbon Disulfide	ug/L	20	22	20	112	101		11		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE & LCSD: 3412477 3412478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethylene	ug/L	20	23	20	114	102		11		
1,1-Dichloroethane	ug/L	20	23	21	117	105		11		
Vinyl Acetate	ug/L	20	26	11	132	56		81		
2-Butanone (MEK)	ug/L	20	23	20	115	100		14		
cis-1,2-Dichloroethylene	ug/L	20	23	21	117	105	70-130	11	20	
Bromochloromethane	ug/L	20	24	22	120	109		10		
Chloroform	ug/L	20	24	21	120	107	70-130	11	20	
1,2-Dichloroethane	ug/L	20	22	20	110	100		9		
1,1,1-Trichloroethane	ug/L	20	23	21	116	104		11		
Carbon Tetrachloride	ug/L	20	24	21	119	105		13		
Benzene	ug/L	20	24	21	118	105	70-130	12	20	
Dibromomethane	ug/L	20	23	22	116	108		7		
1,2-Dichloropropane	ug/L	20	23	21	116	104		11		
Trichloroethene	ug/L	20	23	22	113	109	70-130	3	20	
Bromodichloromethane	ug/L	20	24	21	119	105		12		
cis-1,3-Dichloropropene	ug/L	20	24	20	120	103		15		
4-Methyl-2-pentanone (MIBK)	ug/L	20	24	21	120	104		14		
trans-1,3-Dichloropropylene	ug/L	20	24	20	121	102		17		
1,1,2-Trichloroethane	ug/L	20	23	21	117	103		13		
Toluene	ug/L	20	19	17	97	86	70-130	12	20	
2-Hexanone	ug/L	20	21	18	105	92		13		
Dibromochloromethane	ug/L	20	21	18	104	92		12		
Ethylene Dibromide (EDB)	ug/L	20	21	19	107	94		12		
Tetrachloroethylene (PCE)	ug/L	20	20	18	101	90	70-130	12	20	
1,1,1,2-Tetrachloroethane	ug/L	20	21	19	107	94		13		
Chlorobenzene	ug/L	20	21	18	105	92	70-130	13	20	
Ethylbenzene	ug/L	20	21	19	104	93	70-130	12	20	
Bromoform	ug/L	20	19	18	97	89		9		
Styrene	ug/L	20	21	19	106	95		11		
1,1,2,2-Tetrachloroethane	ug/L	20	22	17	109	85		25		
1,2,3-Trichloropropane	ug/L	20	23	18	116	92		23		
1,4-Dichlorobenzene	ug/L	20	19	16	97	81		17		
1,2-Dichlorobenzene	ug/L	20	20	17	98	83	70-130	17	20	
1,2-Dibromo-3-Chloropropane	ug/L	20	20	17	98	84		15		
Xylene (Total)	ug/L	60	63	56	106	93	70-130	12	20	
1,2-Dichloroethane-d4 (S)	%				90	94	70-128	4		
Toluene-d8 (S)	%				88	90	77-119	2		
Bromofluorobenzene (S)	%				95	97	86-123	3		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3412479 Original: J2002766032

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	22	109		
Vinyl Chloride	ug/L	0	20	20	102	70-130	
Bromomethane	ug/L	0	20	22	108		
Chloroethane	ug/L	0	20	22	108		
Trichlorofluoromethane	ug/L	0	20	23	117		
Acetone	ug/L	0	20	19	93		
1,1-Dichloroethylene	ug/L	0	20	23	115	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	12	58		
Acrylonitrile	ug/L	0	20	22	112		
Methylene Chloride	ug/L	0	20	19	97		
Carbon Disulfide	ug/L	0	20	22	108		
trans-1,2-Dichloroethylene	ug/L	0	20	22	112		
1,1-Dichloroethane	ug/L	0	20	23	115		
Vinyl Acetate	ug/L	0	20	24	119		
2-Butanone (MEK)	ug/L	0	20	22	111		
cis-1,2-Dichloroethylene	ug/L	0	20	23	113	70-130	
Bromochloromethane	ug/L	0	20	23	115		
Chloroform	ug/L	0	20	23	117	70-130	
1,2-Dichloroethane	ug/L	0	20	22	110		
1,1,1-Trichloroethane	ug/L	0	20	22	112		
Carbon Tetrachloride	ug/L	0	20	23	117		
Benzene	ug/L	0	20	23	115	70-130	
Dibromomethane	ug/L	0	20	23	113		
1,2-Dichloropropane	ug/L	0	20	22	112		
Trichloroethene	ug/L	0	20	21	107	70-130	
Bromodichloromethane	ug/L	0	20	23	116		
cis-1,3-Dichloropropene	ug/L	0	20	23	113		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	23	114		
trans-1,3-Dichloropropylene	ug/L	0	20	22	112		
1,1,2-Trichloroethane	ug/L	0	20	22	110		
Toluene	ug/L	0	20	19	95	70-130	
2-Hexanone	ug/L	0	20	20	101		
Dibromochloromethane	ug/L	0	20	20	100		
Ethylene Dibromide (EDB)	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	21	104		
Chlorobenzene	ug/L	0	20	20	100	70-130	
Ethylbenzene	ug/L	0	20	20	102	70-130	
Bromoform	ug/L	0	20	19	95		
Styrene	ug/L	0	20	21	103		
1,1,2,2-Tetrachloroethane	ug/L	0	20	21	103		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3412479 Original: J2002766032

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	0	20	22	108		
1,4-Dichlorobenzene	ug/L	0	20	19	94		
1,2-Dichlorobenzene	ug/L	0	20	19	95	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	20	19	95		
Xylene (Total)	ug/L	0	60	61	101	70-130	
1,2-Dichloroethane-d4 (S)	%	93			93	70-128	
Toluene-d8 (S)	%	90			90	77-119	
Bromofluorobenzene (S)	%	107			99	86-123	

QC Batch: DGMj/1265 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 03/11/2020 11:30

Associated Lab Samples: J2002766007, J2002766008, J2002766009, J2002766010, J2002766011, J2002766012, J2002766013, J2002766014

METHOD BLANK: 3412480

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3412481

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: 3412482 3412483 Original: S2000562001

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	0.55	0.46	28	23	80-120	18	20	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

QC Batch: MSVj/1366 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 03/10/2020 11:45
Associated Lab Samples: J2002766032, J2002766033, J2002766034

METHOD BLANK: 3412484

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)	%	88	80-121	
Bromofluorobenzene (S)	%	95	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3412485 3412486

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	0.81	0.79	101	99	70-130	2	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.71	0.75	89	94	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%				86	93	77-125	7		
Toluene-d8 (S)	%				90	89	80-121	1		
Bromofluorobenzene (S)	%				94	96	80-129	2		

MATRIX SPIKE SAMPLE: 3412487 Original: J2002766033

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.81	101	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.75	94	70-130	
1,2-Dichloroethane-d4 (S)	%	92			94	77-125	
Toluene-d8 (S)	%	88			89	80-121	
Bromofluorobenzene (S)	%	96			95	80-129	

QC Batch: DGMj/1266 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 03/16/2020 12:15
Associated Lab Samples: J2002766015, J2002766017, J2002766018, J2002766019, J2002766020, J2002766021, J2002766022, J2002766030,

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

METHOD BLANK: 3412488

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3412489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.8	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3412490 3412491 Original: J2002766015

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	1.9	92	93	80-120	1	20	

QC Batch: WCAg/1799 Analysis Method: SM 10200 H

QC Batch Method: SM 10200 H Prepared:

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3412813

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Corrected Chlorophyll A	mg/m3	2.5	2.5	U

METHOD BLANK: 3412815

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Corrected Chlorophyll A	mg/m3	2.5	2.5	U

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

SAMPLE DUPLICATE: 3412814 Original: J2002766036

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Corrected Chlorophyll A	mg/m3	5.0	5.0	0	35	

SAMPLE DUPLICATE: 3412816 Original: A2002071001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Corrected Chlorophyll A	mg/m3	19	20	7	35	

QC Batch: WCAg/1806 Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4 Prepared:

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040

METHOD BLANK: 3413766

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chemical Oxygen Demand	mg/L	7.2	7.2	U

METHOD BLANK: 3413776

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chemical Oxygen Demand	mg/L	7.2	7.2	U

LABORATORY CONTROL SAMPLE: 3413767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chemical Oxygen Demand	mg/L	500	490	98	90-110	

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413769 3413770 Original: J2003047006

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	12	500	510	500	100	98	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413773 3413774 Original: G2002186001

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	46	500	530	550	97	100	90-110	3	10	

QC Batch: MSVj/1382 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 03/12/2020 08:49

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040, J2002766041

METHOD BLANK: 3417202

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: J2002766 Trail Ridge Landfill

METHOD BLANK: 3417202

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
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
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
1,2-Dibromo-3-Chloropropane	ug/L	3.1	3.1	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)	%	89	70-128	
Toluene-d8 (S)	%	89	77-119	
Bromofluorobenzene (S)	%	100	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3417203 3417204

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	21	20	107	101		6		
Vinyl Chloride	ug/L	20	20	21	100	105	70-130	5	20	
Bromomethane	ug/L	20	12	17	59	86		37		
Chloroethane	ug/L	20	22	22	108	112		4		
Trichlorofluoromethane	ug/L	20	22	23	112	116		3		
Acetone	ug/L	20	18	20	91	100		9		
1,1-Dichloroethylene	ug/L	20	23	23	116	116	70-130	0	20	
Iodomethane (Methyl Iodide)	ug/L	20	7.4	9.2	37	46		23		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

LABORATORY CONTROL SAMPLE & LCSD: 3417203 3417204

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acrylonitrile	ug/L	20	23	23	115	115		0		
Methylene Chloride	ug/L	20	24	24	121	122		1		
Carbon Disulfide	ug/L	20	22	21	111	106		4		
trans-1,2-Dichloroethylene	ug/L	20	23	23	114	113		1		
1,1-Dichloroethane	ug/L	20	23	22	115	112		3		
Vinyl Acetate	ug/L	20	24	18	122	92		28		
2-Butanone (MEK)	ug/L	20	23	23	116	115		1		
cis-1,2-Dichloroethylene	ug/L	20	23	23	114	114	70-130	1	20	
Bromochloromethane	ug/L	20	24	24	119	119		1		
Chloroform	ug/L	20	24	23	118	115	70-130	3	20	
1,2-Dichloroethane	ug/L	20	22	22	111	110		1		
1,1,1-Trichloroethane	ug/L	20	23	23	116	114		2		
Carbon Tetrachloride	ug/L	20	24	22	119	111		7		
Benzene	ug/L	20	23	23	117	114	70-130	3	20	
Dibromomethane	ug/L	20	23	23	116	115		1		
1,2-Dichloropropane	ug/L	20	23	23	114	113		1		
Trichloroethene	ug/L	20	22	23	112	114	70-130	2	20	
Bromodichloromethane	ug/L	20	24	23	119	116		3		
cis-1,3-Dichloropropene	ug/L	20	23	23	117	114		2		
4-Methyl-2-pentanone (MIBK)	ug/L	20	24	24	120	120		0		
trans-1,3-Dichloropropylene	ug/L	20	24	23	120	113		7		
1,1,2-Trichloroethane	ug/L	20	23	22	116	111		4		
Toluene	ug/L	20	19	19	94	94	70-130	0	20	
2-Hexanone	ug/L	20	20	21	102	104		2		
Dibromochloromethane	ug/L	20	20	20	100	99		2		
Ethylene Dibromide (EDB)	ug/L	20	21	21	104	104		0		
Tetrachloroethylene (PCE)	ug/L	20	19	19	96	96	70-130	0	20	
1,1,1,2-Tetrachloroethane	ug/L	20	21	20	103	102		2		
Chlorobenzene	ug/L	20	20	20	98	100	70-130	2	20	
Ethylbenzene	ug/L	20	20	20	100	100	70-130	0	20	
Bromoform	ug/L	20	19	19	97	95		2		
Styrene	ug/L	20	21	20	104	102		1		
1,1,2,2-Tetrachloroethane	ug/L	20	21	21	105	103		2		
1,2,3-Trichloropropane	ug/L	20	21	22	105	110		5		
1,4-Dichlorobenzene	ug/L	20	18	18	92	88		4		
1,2-Dichlorobenzene	ug/L	20	19	18	93	92	70-130	1	20	
1,2-Dibromo-3-Chloropropane	ug/L	20	19	18	96	92		5		
Xylene (Total)	ug/L	60	61	61	102	101	70-130	1	20	
1,2-Dichloroethane-d4 (S)	%				92	92	70-128	0		
Toluene-d8 (S)	%				85	89	77-119	4		
Bromofluorobenzene (S)	%				96	96	86-123	1		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3417205 Original: J2003367001

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	9.9	20	25	75	70-130	
Bromomethane	ug/L	0	20	21	104		
Chloroethane	ug/L	0	20	23	116		
Trichlorofluoromethane	ug/L	0	20	24	123		
Acetone	ug/L	0	20	20	101		
1,1-Dichloroethylene	ug/L	0	20	24	119	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	10	52		
Acrylonitrile	ug/L	0	20	24	121		
Methylene Chloride	ug/L	0	20	21	104		
Carbon Disulfide	ug/L	0	20	23	115		
trans-1,2-Dichloroethylene	ug/L	3.9	20	28	119		
1,1-Dichloroethane	ug/L	0	20	24	120		
Vinyl Acetate	ug/L	0	20	26	130		
2-Butanone (MEK)	ug/L	0	20	24	120		
cis-1,2-Dichloroethylene	ug/L	64	20	88	120	70-130	
Bromochloromethane	ug/L	0	20	25	123		
Chloroform	ug/L	3.6	20	28	123	70-130	
1,2-Dichloroethane	ug/L	0	20	23	117		
1,1,1-Trichloroethane	ug/L	0	20	24	121		
Carbon Tetrachloride	ug/L	0	20	25	123		
Benzene	ug/L	0	20	24	121	70-130	
Dibromomethane	ug/L	0	20	24	118		
1,2-Dichloropropane	ug/L	0	20	24	118		
Trichloroethene	ug/L			490			
Bromodichloromethane	ug/L	0	20	25	126		
cis-1,3-Dichloropropene	ug/L	0	20	24	122		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	25	127		
trans-1,3-Dichloropropylene	ug/L	0	20	24	120		
1,1,2-Trichloroethane	ug/L	0	20	24	120		
Toluene	ug/L	0	20	20	100	70-130	
2-Hexanone	ug/L	0	20	23	113		
Dibromochloromethane	ug/L	0	20	20	102		
Ethylene Dibromide (EDB)	ug/L	0	20	22	110		
Tetrachloroethylene (PCE)	ug/L	0	20	20	102	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	22	108		
Chlorobenzene	ug/L	0	20	21	106	70-130	
Ethylbenzene	ug/L	0	20	21	107	70-130	
Bromoform	ug/L	0	20	21	103		
Styrene	ug/L	0	20	22	108		
1,1,2,2-Tetrachloroethane	ug/L	0	20	23	113		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3417205 Original: J2003367001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	0	20	23	117		
1,4-Dichlorobenzene	ug/L	0	20	19	97		
1,2-Dichlorobenzene	ug/L	0	20	20	101	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	20	21	105		
Xylene (Total)	ug/L	0	60	65	108	70-130	
1,2-Dichloroethane-d4 (S)	%	94			90	70-128	
Toluene-d8 (S)	%	89			88	77-119	
Bromofluorobenzene (S)	%	108			96	86-123	

QC Batch: MSVj/1384 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 03/12/2020 08:49

Associated Lab Samples: J2002766035, J2002766036, J2002766037, J2002766038, J2002766039, J2002766040, J2002766041

METHOD BLANK: 3417206

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)	%	86	77-125	
Toluene-d8 (S)	%	89	80-121	
Bromofluorobenzene (S)	%	94	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3417207 3417208

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	0.73	105	91	70-130	14	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.79	0.77	99	96	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%				87	87	77-125	0		
Toluene-d8 (S)	%				87	85	80-121	3		
Bromofluorobenzene (S)	%				95	93	80-129	2		

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QUALITY CONTROL DATA

Workorder: J2002766 Trail Ridge Landfill

MATRIX SPIKE SAMPLE: 3417209 Original: J2002766035

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.71	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	0.71	89	70-130	
1,2-Dichloroethane-d4 (S)	%	77			89	77-125	
Toluene-d8 (S)	%	82			88	80-121	
Bromofluorobenzene (S)	%	85			97	80-129	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J2002766 Trail Ridge Landfill

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
[2]	samples 1-5 filtered 3/4/20 17:45

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766001	MWB11I (R)			EPA 300.0	WCAj/1462
J2002766002	MWB2I			EPA 300.0	WCAj/1462
J2002766003	MWB12I			EPA 300.0	WCAj/1462
J2002766004	MWB13I			EPA 300.0	WCAj/1462
J2002766005	MWB29I			EPA 300.0	WCAj/1462
J2002766006	MWB27I			EPA 300.0	WCAj/1462
J2002766007	MWB27S			EPA 300.0	WCAj/1462
J2002766008	MWB29S			EPA 300.0	WCAj/1462
J2002766009	MWB13S			EPA 300.0	WCAj/1462
J2002766010	MWB22S			EPA 300.0	WCAj/1462
J2002766011	MWB12S			EPA 300.0	WCAj/1462
J2002766012	MWB2S			EPA 300.0	WCAj/1462
J2002766013	MWB20S			EPA 300.0	WCAj/1462
J2002766014	MWB21S			EPA 300.0	WCAj/1462
J2002766015	Equipment Blank #1			EPA 300.0	WCAj/1462
J2002766001	MWB11I (R)			SM 2540 C	WCAj/1465
J2002766002	MWB2I			SM 2540 C	WCAj/1465
J2002766003	MWB12I			SM 2540 C	WCAj/1465
J2002766004	MWB13I			SM 2540 C	WCAj/1465
J2002766005	MWB29I			SM 2540 C	WCAj/1465
J2002766006	MWB27I			SM 2540 C	WCAj/1465
J2002766007	MWB27S			SM 2540 C	WCAj/1465
J2002766008	MWB29S			SM 2540 C	WCAj/1465
J2002766009	MWB13S			SM 2540 C	WCAj/1465
J2002766017	MWB-3S			EPA 300.0	WCAj/1467
J2002766018	MWB-40S			EPA 300.0	WCAj/1467
J2002766019	MWB-39S			EPA 300.0	WCAj/1467
J2002766024	MWB-39I			EPA 300.0	WCAj/1467
J2002766020	MWB-35S			EPA 300.0	WCAj/1480
J2002766021	SGMW-2S			EPA 300.0	WCAj/1480
J2002766022	SGMW-15R			EPA 300.0	WCAj/1480

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766025	MWB-3I			EPA 300.0	WCAj/1480
J2002766026	MWB-35I			EPA 300.0	WCAj/1480
J2002766027	Equipment Blank #1			EPA 300.0	WCAj/1480
J2002766028	MWB-32I			EPA 300.0	WCAj/1480
J2002766029	MWB-34I			EPA 300.0	WCAj/1480
J2002766030	MWB-11S			EPA 300.0	WCAj/1480
J2002766031	MWB-32S			EPA 300.0	WCAj/1480
J2002766032	MWB-33S			EPA 300.0	WCAj/1480
J2002766033	MWB-34S			EPA 300.0	WCAj/1480
J2002766035	SW-3			EPA 300.0	WCAj/1486
J2002766036	SW-6			EPA 300.0	WCAj/1486
J2002766037	SW-7			EPA 300.0	WCAj/1486
J2002766038	SW-5			EPA 300.0	WCAj/1486
J2002766039	SW-4			EPA 300.0	WCAj/1486
J2002766040	SW-1			EPA 300.0	WCAj/1486
J2002766017	MWB-3S	SW-846 3010A	DGMj/1220	SW-846 6010	ICPj/1105
J2002766018	MWB-40S	SW-846 3010A	DGMj/1220	SW-846 6010	ICPj/1105
J2002766019	MWB-39S	SW-846 3010A	DGMj/1220	SW-846 6010	ICPj/1105
J2002766020	MWB-35S	SW-846 3010A	DGMj/1220	SW-846 6010	ICPj/1105
J2002766021	SGMW-2S	SW-846 3010A	DGMj/1220	SW-846 6010	ICPj/1105
J2002766022	SGMW-15R	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766024	MWB-39I	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766025	MWB-3I	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766026	MWB-35I	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766027	Equipment Blank #1	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766028	MWB-32I	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766029	MWB-34I	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766030	MWB-11S	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766031	MWB-32S	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766032	MWB-33S	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766033	MWB-34S	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766035	SW-3	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766036	SW-6	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766037	SW-7	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766038	SW-5	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766039	SW-4	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766040	SW-1	SW-846 3010A	DGMj/1221	SW-846 6010	ICPj/1104
J2002766017	MWB-3S	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766018	MWB-40S	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766019	MWB-39S	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766020	MWB-35S	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766021	SGMW-2S	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766022	SGMW-15R	SW-846 3010A	DGMj/1222	SW-846 6020	ICMj/1068
J2002766010	MWB22S			SM 2540 C	WCAj/1500
J2002766011	MWB12S			SM 2540 C	WCAj/1500
J2002766012	MWB2S			SM 2540 C	WCAj/1500
J2002766013	MWB20S			SM 2540 C	WCAj/1500
J2002766014	MWB21S			SM 2540 C	WCAj/1500
J2002766015	Equipment Blank #1			SM 2540 C	WCAj/1500
J2002766017	MWB-3S			SM 2540 C	WCAj/1500
J2002766018	MWB-40S			SM 2540 C	WCAj/1500
J2002766019	MWB-39S			SM 2540 C	WCAj/1500
J2002766020	MWB-35S			SM 2540 C	WCAj/1500
J2002766021	SGMW-2S			SM 2540 C	WCAj/1500
J2002766022	SGMW-15R			SM 2540 C	WCAj/1500
J2002766024	MWB-39I			SM 2540 C	WCAj/1500
J2002766025	MWB-3I			SM 2540 C	WCAj/1500
J2002766026	MWB-35I			SM 2540 C	WCAj/1500
J2002766027	Equipment Blank #1			SM 2540 C	WCAj/1500
J2002766028	MWB-32I			SM 2540 C	WCAj/1500
J2002766035	SW-3			SM 5210B	WCAj/1501
J2002766036	SW-6			SM 5210B	WCAj/1501

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766037	SW-7			SM 5210B	WCAj/1501
J2002766038	SW-5			SM 5210B	WCAj/1501
J2002766039	SW-4			SM 5210B	WCAj/1501
J2002766040	SW-1			SM 5210B	WCAj/1501
J2002766001	MWB11I (R)			EPA 350.1	WCAg/1679
J2002766002	MWB2I			EPA 350.1	WCAg/1679
J2002766003	MWB12I			EPA 350.1	WCAg/1679
J2002766004	MWB13I			EPA 350.1	WCAg/1680
J2002766005	MWB29I			EPA 350.1	WCAg/1680
J2002766006	MWB27I			EPA 350.1	WCAg/1680
J2002766007	MWB27S			EPA 350.1	WCAg/1680
J2002766008	MWB29S			EPA 350.1	WCAg/1680
J2002766009	MWB13S			EPA 350.1	WCAg/1680
J2002766010	MWB22S			EPA 350.1	WCAg/1680
J2002766011	MWB12S			EPA 350.1	WCAg/1680
J2002766012	MWB2S			EPA 350.1	WCAg/1680
J2002766013	MWB20S			EPA 350.1	WCAg/1680
J2002766035	SW-3	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766036	SW-6	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766037	SW-7	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766038	SW-5	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766039	SW-4	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766040	SW-1	Copper Sulfate Digestion	WCAg/1701	EPA 351.2	WCAg/1706
J2002766035	SW-3	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707
J2002766036	SW-6	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707
J2002766037	SW-7	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707
J2002766038	SW-5	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707
J2002766039	SW-4	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707
J2002766040	SW-1	Copper Sulfate Digestion	WCAg/1701	EPA 365.4	WCAg/1707

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766035	SW-3	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766036	SW-6	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766037	SW-7	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766038	SW-5	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766039	SW-4	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766040	SW-1	EPA 245.1	DGMj/1237	EPA 245.1	CVAj/1048
J2002766029	MWB-34I			SM 2540 C	WCAj/1535
J2002766030	MWB-11S			SM 2540 C	WCAj/1535
J2002766031	MWB-32S			SM 2540 C	WCAj/1535
J2002766032	MWB-33S			SM 2540 C	WCAj/1535
J2002766033	MWB-34S			SM 2540 C	WCAj/1535
J2002766035	SW-3			SM 2540 C	WCAj/1535
J2002766036	SW-6			SM 2540 C	WCAj/1535
J2002766037	SW-7			SM 2540 C	WCAj/1535
J2002766038	SW-5			SM 2540 C	WCAj/1535
J2002766035	SW-3			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766036	SW-6			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766037	SW-7			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766038	SW-5			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766039	SW-4			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766040	SW-1			COLILERT-18 (Fecal Coliforms)	MICj/1260
J2002766014	MWB21S			EPA 350.1	WCAg/1727
J2002766015	Equipment Blank #1			EPA 350.1	WCAg/1727
J2002766017	MWB-3S			EPA 350.1	WCAg/1727
J2002766018	MWB-40S			EPA 350.1	WCAg/1728
J2002766019	MWB-39S			EPA 350.1	WCAg/1728
J2002766020	MWB-35S			EPA 350.1	WCAg/1728
J2002766021	SGMW-2S			EPA 350.1	WCAg/1728

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766022	SGMW-15R			EPA 350.1	WCAg/1728
J2002766024	MWB-39I			EPA 350.1	WCAg/1728
J2002766025	MWB-3I			EPA 350.1	WCAg/1728
J2002766026	MWB-35I			EPA 350.1	WCAg/1728
J2002766027	Equipment Blank #1			EPA 350.1	WCAg/1728
J2002766028	MWB-32I			EPA 350.1	WCAg/1728
J2002766029	MWB-34I			EPA 350.1	WCAg/1729
J2002766030	MWB-11S			EPA 350.1	WCAg/1729
J2002766031	MWB-32S			EPA 350.1	WCAg/1729
J2002766032	MWB-33S			EPA 350.1	WCAg/1729
J2002766033	MWB-34S			EPA 350.1	WCAg/1729
J2002766035	SW-3			EPA 350.1	WCAg/1729
J2002766036	SW-6			EPA 350.1	WCAg/1729
J2002766037	SW-7			EPA 350.1	WCAg/1729
J2002766038	SW-5			EPA 350.1	WCAg/1729
J2002766039	SW-4			EPA 350.1	WCAg/1729
J2002766040	SW-1			EPA 350.1	WCAg/1730
J2002766039	SW-4			SM 2540 C	WCAj/1553
J2002766040	SW-1			SM 2540 C	WCAj/1553
J2002766035	SW-3			SM 5310B	WCAg/1746
J2002766036	SW-6			SM 5310B	WCAg/1746
J2002766037	SW-7			SM 5310B	WCAg/1746
J2002766038	SW-5			SM 5310B	WCAg/1746
J2002766039	SW-4			SM 5310B	WCAg/1746
J2002766040	SW-1			SM 5310B	WCAg/1746
J2002766001	MWB11I (R)	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766002	MWB2I	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766003	MWB12I	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766004	MWB13I	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766005	MWB29I	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766006	MWB27I	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766007	MWB27S	SW-846 3010A	DGMj/1247	SW-846 6010	ICPj/1127
J2002766008	MWB29S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766009	MWB13S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766010	MWB22S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766011	MWB12S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766012	MWB2S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766013	MWB20S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766014	MWB21S	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766015	Equipment Blank #1	SW-846 3010A	DGMj/1248	SW-846 6010	ICPj/1123
J2002766007	MWB27S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766008	MWB29S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766009	MWB13S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766010	MWB22S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766011	MWB12S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766012	MWB2S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766013	MWB20S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766014	MWB21S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766015	Equipment Blank #1	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766030	MWB-11S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766031	MWB-32S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766032	MWB-33S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766033	MWB-34S	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766035	SW-3	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766036	SW-6	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766037	SW-7	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766038	SW-5	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766039	SW-4	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080
J2002766040	SW-1	SW-846 3010A	DGMj/1257	SW-846 6020	ICMj/1080

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766007	MWB27S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766008	MWB29S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766009	MWB13S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766010	MWB22S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766011	MWB12S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766012	MWB2S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766013	MWB20S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766014	MWB21S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766015	Equipment Blank #1	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766016	Trip Blank #1	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766017	MWB-3S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766018	MWB-40S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766019	MWB-39S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766020	MWB-35S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766021	SGMW-2S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766022	SGMW-15R	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766023	TRIP	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766030	MWB-11S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766031	MWB-32S	SW-846 5030B	MSVj/1360	SW-846 8260B	MSVj/1361
J2002766007	MWB27S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766008	MWB29S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766009	MWB13S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766010	MWB22S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766011	MWB12S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766012	MWB2S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766013	MWB20S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766014	MWB21S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766015	Equipment Blank #1	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766016	Trip Blank #1	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766017	MWB-3S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766018	MWB-40S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766019	MWB-39S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766020	MWB-35S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766021	SGMW-2S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766022	SGMW-15R	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766023	TRIP	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766030	MWB-11S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766031	MWB-32S	SW-846 5030B	MSVj/1362	SW-846 8260B (SIM)	MSVj/1363
J2002766032	MWB-33S	SW-846 5030B	MSVj/1364	SW-846 8260B	MSVj/1365
J2002766033	MWB-34S	SW-846 5030B	MSVj/1364	SW-846 8260B	MSVj/1365
J2002766034	TRIP	SW-846 5030B	MSVj/1364	SW-846 8260B	MSVj/1365
J2002766007	MWB27S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766008	MWB29S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766009	MWB13S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766010	MWB22S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766011	MWB12S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766012	MWB2S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766013	MWB20S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766014	MWB21S	SW-846 7470A	DGMj/1265	SW-846 7470A	CVAj/1054
J2002766032	MWB-33S	SW-846 5030B	MSVj/1366	SW-846 8260B (SIM)	MSVj/1367
J2002766033	MWB-34S	SW-846 5030B	MSVj/1366	SW-846 8260B (SIM)	MSVj/1367
J2002766034	TRIP	SW-846 5030B	MSVj/1366	SW-846 8260B (SIM)	MSVj/1367
J2002766015	Equipment Blank #1	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766017	MWB-3S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766018	MWB-40S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766019	MWB-39S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766020	MWB-35S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766021	SGMW-2S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766022	SGMW-15R	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766030	MWB-11S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766031	MWB-32S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766032	MWB-33S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766033	MWB-34S	SW-846 7470A	DGMj/1266	SW-846 7470A	CVAj/1055
J2002766035	SW-3			SM 10200 H	WCAg/1799
J2002766036	SW-6			SM 10200 H	WCAg/1799
J2002766037	SW-7			SM 10200 H	WCAg/1799
J2002766038	SW-5			SM 10200 H	WCAg/1799
J2002766039	SW-4			SM 10200 H	WCAg/1799
J2002766040	SW-1			SM 10200 H	WCAg/1799
J2002766035	SW-3			EPA 410.4	WCAg/1806
J2002766036	SW-6			EPA 410.4	WCAg/1806
J2002766037	SW-7			EPA 410.4	WCAg/1806
J2002766038	SW-5			EPA 410.4	WCAg/1806
J2002766039	SW-4			EPA 410.4	WCAg/1806
J2002766040	SW-1			EPA 410.4	WCAg/1806
J2002766035	SW-3	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766036	SW-6	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766037	SW-7	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766038	SW-5	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766039	SW-4	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766040	SW-1	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766041	Trip	SW-846 5030B	MSVj/1382	SW-846 8260B	MSVj/1383
J2002766035	SW-3	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766036	SW-6	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766037	SW-7	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766038	SW-5	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766039	SW-4	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766040	SW-1	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766041	Trip	SW-846 5030B	MSVj/1384	SW-846 8260B (SIM)	MSVj/1385
J2002766035	SW-3	Calculation	CLCg/	Calculation	CLCg/

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2002766 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2002766035	SW-3	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J2002766036	SW-6	Calculation	CLCg/	Calculation	CLCg/
J2002766036	SW-6	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J2002766037	SW-7	Calculation	CLCg/	Calculation	CLCg/
J2002766037	SW-7	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J2002766038	SW-5	Calculation	CLCg/	Calculation	CLCg/
J2002766038	SW-5	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J2002766039	SW-4	Calculation	CLCg/	Calculation	CLCg/
J2002766039	SW-4	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J2002766040	SW-1	Calculation	CLCg/	Calculation	CLCg/
J2002766040	SW-1	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/

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* J 2 0 0 2 7 6 6 *

CLIENT NAME:	CITY OF JACKSONVILLE	PROJECT NAME:	Trail Ridge Landfill
ADDRESS:	214 North Hogan Street, 10th Floor	P.O. NUMBER/PROJECT NUMBER:	608372:4
	Jacksonville, FL 32202	PROJECT LOCATION:	
PHONE:	(904)-255-7513	REMARKS/SPECIAL INSTRUCTIONS:	Ground Water Intermediate Wells
FAX:			CEC Contact: Jim Chrisiansen
CONTACT:	Eric B. Fuller		
SAMPLED BY:			33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)
TURN AROUND TIME:	☒ STANDARD _____ ☐ RUSH _____		AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: BOTTLE SIZE & TYPE	250mL poly	250mL poly	125mL poly	LABORATORY I.D. NUMBER
									Fe,Na by 6010	NO3 / Cl / TDS	Ammonia-N 350.1	
									HNO3	None	H2SO4	
	MWB 11 I (R)	G	2-26	1227	W	3			1	1	1	001
	MWB 2 I	G	2-26	1125	W	3			1	1	1	002
	MWB 12 I	G	2-26	1024	W	3			1	1	1	003
	MWB 13 I	G	2-26	0853	W	3			1	1	1	004
	MWB 29 I	G	2-26	0754	W	3			1	1	1	005
	MWB 27 I	G	2-26	0651	W	3			1	1	1	006

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SD = soil SL = sludge

Preservation Code: I = Ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from temp blank ☐ Where required, pH checked

Temperature when received 4 (In degrees celcius)

Form revised 2/8/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1.		2-26-20	1454	C Kelly	2/26/2020	1454
2.		2/26/2020	1753	Amanda Nipp	2/26/2020	1535
3.						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

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* J 2 0 0 2 7 6 6 *

CLIENT NAME:	CITY OF JACKSONVILLE	PROJECT NAME:	Trail Ridge Landfill
ADDRESS:	214 North Hogan Street, 10th Floor	P.O. NUMBER/PROJECT NUMBER:	608372:4
	Jacksonville, FL 32202	PROJECT LOCATION:	
PHONE:	(904)-255-7513	REMARKS/SPECIAL INSTRUCTIONS:	Ground Water Shallow Wells
FAX:			CEC Contact: Jim Chrisiansen
CONTACT:	Eric B. Fuller		
SAMPLED BY:			33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)
TURN AROUND TIME:			AEL Jax Profile: 30178, Line 4
☒ STANDARD ____	☐ RUSH ____		

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	App I + EDB 8260/8260SIM HCl / DI	App I + Na,Fe,Hg 6010/6020/7470 HNO3	NO3 / Cl / TDS None	Ammonia-N 350.1 H2SO4	LABORATORY I.D. NUMBER
	MWB27S	G	2-26	0721	W	6		3	1	1	1	007
	MWB29S	G	2-26	0822	W	6		3	1	1	1	008
	MWB13S	G	2-26	0921	W	6		3	1	1	1	009
	MWB22S	G	2-26	0953	W	6		3	1	1	1	010
	MWB12S	G	2-26	1053	W	6		3	1	1	1	011
	MWB2S	G	2-26	1154	W	6		3	1	1	1	012
	MWB20S	G	2-26	1301	W	6		3	1	1	1	013
	MWB21S	G	2-26	1336	W	6		3	1	1	1	014
	EQUIPMENT BLANK #1	G	2-26	1351	W	6		3	1	1	1	015
	TRIP BLANK #1	G	2-26	—	W	3		3				016

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 temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Form revised 2/6/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2-26-26	1442		2/26/2020	1830
2		2/26/2020	1530	Amanda Arroyo	2/26/2020	1535
3						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Tuesday, March 17, 2020 12:06:44 PM
Page 150 of 155

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J20027606

CLIENT NAME:	CITY OF JACKSONVILLE
ADDRESS:	214 North Hogan Street, 10th Floor
	Jacksonville, FL 32202
PHONE	(904)-255-7513
FAX	
CONTACT	Eric B. Fuller
SAMPLED BY:	
TURN AROUND TIME	☒ STANDARD _____ ☐ RUSH _____
PROJECT NAME	Trail Ridge Landfill
P.O. NUMBER/PROJECT NUMBER:	608372:4
PROJECT LOCATION	

REMARKS/SPECIAL INSTRUCTIONS:

Ground Water Shallow Wells

CEC Contact: Jim Chrisiansen

33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)

AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 3X40mL VOA vials	500mL poly	250mL poly	125mL poly							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED: App I + EDB 8260/8260SIM	App I + Na,Fe,Hg 6010/6020/7470	NO3 / Cl / TDS	Ammonia-N 350.1							
								HCl / DI	HNO3	None	H2SO4							
	MWB-3S	G	2-27	1300	W	6		3	1	1	1							017
	MWB-40S	G	2-27	1223	W	6		3	1	1	1							018
	MWB-39S	G	2-27	1150	W	6		3	1	1	1							019
	MWB-35S	G	2-27	1437	W	6		3	1	1	1							020
	SGMW-2S	G	2-27	1548	W	6		3	1	1	1							021
	SGMW-15R	G	2-27	1511	W	6		3	1	1	1							022
	TRIP	G	2-27	-	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 temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

Form revised 2/8/08

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2-28-20	0630		2/28/2020	630
2	2/28/2020		705		2-28-2020	700
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site Address: _____

Tuesday, March 17, 2020 12:06:44 PM

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Page 1 of 1 LAB NUMBER: J20027616

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☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E53076

CLIENT NAME:	CITY OF JACKSONVILLE
ADDRESS:	214 North Hogan Street, 10th Floor
	Jacksonville, FL 32202
PHONE:	(904)-255-7513
FAX:	
CONTACT:	Eric B. Fuller
SAMPLED BY:	
TURN AROUND TIME	☒ STANDARD _____ ☐ RUSH _____
PROJECT NAME:	Trail Ridge Landfill
P.O. NUMBER/PROJECT NUMBER:	608372:4
PROJECT LOCATION:	
REMARKS/SPECIAL INSTRUCTIONS:	Ground Water Intermediate Wells CEC Contact: Jim Chrisiansen 33628, TRAIL RIDGE LANDFILL, INC. (ADaPT) AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	ANALYSIS REQUIRED: Fe,Na by 6010 (HNO3)	NO3 / Cl / TDS (None)	Ammonia-N 350.1 (H2SO4)	LABORATORY I.D. NUMBER
	MWB-39I	G	2-27	1121	W	3		1	1	1	024
	MWB-3I	G	2-27	1231	W	3		1	1	1	025
	MWB-35I	G	2-27	1406	W	3		1	1	1	026
	EQUIPMENT BLANK #1	G	2-27	1610	W	3		1	1	1	027

BOTTLE SIZE & TYPE: 250mL poly | 250mL poly | 125mL poly

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 temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A

Form revised 2/6/08

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2-28-20	0630		2/28/20	1330
2		2-28-20	1705		2-28-20	7:00
3						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____

Tuesday, March 17, 2020 12:06:44 PM
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Page 1 of 1 LAB NUMBER: J20027766

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☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597• E53076

CLIENT NAME:	CITY OF JACKSONVILLE
ADDRESS:	214 North Hogan Street, 10th Floor
	Jacksonville, FL 32202
PHONE:	(904)-255-7513
FAX:	
CONTACT:	Eric B. Fuller
SAMPLED BY:	
TURN AROUND TIME:	☒ STANDARD ☐ RUSH
PROJECT NAME:	Trail Ridge Landfill
P.O. NUMBER/PROJECT NUMBER:	608372:4
PROJECT LOCATION:	

REMARKS/SPECIAL INSTRUCTIONS

Ground Water Intermediate Wells

CEC Contact: Jim Chrisiansen

33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)

AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: Fe,Na by 6010 (250mL poly)	NO3 / Cl / TDS (250mL poly)	Ammonia-N 350.1 (125mL poly)	LABORATORY I.D. NUMBER
	MWB-32I	G	2-28	0837	W	3	PRESERVATION	HNO3	None	H2SO4	026
	~~MWB-34~~ MWB-34I	G	2-28	0856	W	3		1	1	1	027

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 temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

Form revised 2/8/08

	Relinquished by:	Date	Time	Received by:	Date	Time
1		3.28.20	1100		3.28.20	1100
2						
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID:

Contact Person: Phone :

Supplier of Water:

Site-Address:

Tuesday, March 17, 2020 12:06:44 PM
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Advanced Environmental Laboratories, Inc.

Page 1 of 1 LAB NUMBER: J20027606

- [X] 6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 • E82574
- [ ] 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327 • E84580
- [ ] 6816 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639 • E82001
- [ ] 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597• E53076

CLIENT NAME:	CITY OF JACKSONVILLE
ADDRESS:	214 North Hogan Street, 10th Floor
	Jacksonville, FL 32202
PHONE:	(904)-255-7513
FAX:	
CONTACT:	Eric B. Fuller
SAMPLED BY:	
TURN AROUND TIME:	[X] STANDARD _____ [ ] RUSH _____
PROJECT NAME:	Trail Ridge Landfill
P.O. NUMBER/PROJECT NUMBER:	608372:4
PROJECT LOCATION:	

REMARKS/SPECIAL INSTRUCTIONS

Ground Water Shallow Wells

CEC Contact: Jim Chrisiansen

33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)

AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 3X40mL VOA vials (HCl / DI)	500mL poly (HNO3)	250mL poly (None)	125mL poly (H2SO4)	LABORATORY I.D. NUMBER
								App I + EDB 8260/8260SIM	App I + Na,Fe,Hg 6010/6020/7470	NO3 / Cl / TDS	Ammonia-N 350.1	
	MWB-11S	G	2-28	0941	W	6		3	1	1	1	030
	MWB-32S	G	2-28	0907	W	6		3	1	1	1	031
	MWB-33S	G	2-28	0759	W	6		3	1	1	1	032
	MWB-34S	G	2-28	0725	W	6		3	1	1	1	033
	TRIP	G	2-28	-	W	3		3				034

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 [X] Yes [ ] No [X] Temp taken from sample [ ] Temp from temp blank [ ] Where required, pH checked

Temperature when received 4 (in degrees celcius)

Form revised 2/6/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) T: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2-28-20	1100		2/28/20	1100
2						
3						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Tuesday, March 17, 2020 12:06:44 PM
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Advanced Environmental Laboratories, Inc.

☒ 6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 • E82574
☐ 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327 • E84589
☐ 5815 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639 • E82001
☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E83076

LAB NUMBER: J20027766

CLIENT NAME:	CITY OF JACKSONVILLE
ADDRESS:	214 North Hogan Street, 10th Floor
	Jacksonville, FL 32202
PHONE:	(904)-255-7513
FAX:	
CONTACT:	Eric B. Fuller
SAMPLED BY:	
TURN AROUND TIME:	☒ STANDARD ☐ RUSH
PROJECT NAME:	Trail Ridge Landfill
P.O. NUMBER/PROJECT NUMBER:	608372:4
PROJECT LOCATION:	
REMARKS/SPECIAL INSTRUCTIONS:	Surface Water CEC Contact: Jim Chrisiansen 33628,TRAIL RIDGE LANDFILL, INC. (ADaPT) AEL Jax Profile: 30178, Line 5

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	3X40mL VOA vials	500mL poly	250mL poly	1L poly	1 L amber	2X40mL VOA vials	100mL Cup				LABORATORY I.D. NUMBER
							PRESERVATION	HCl / DI	HNO3	H2SO4	NaOH	None 24 hr HT	HCl	NaThio 6 hr HT				
	SW-3	G	3-2	0830	W	10		3	1	1	1	1	2	1				E03
	SW-6	G	3-2	0645	W	10		3	1	1	1	1	2	1				E03
	SW-7	G	3-2	0721	W	10		3	1	1	1	1	2	1				E03
	SW-5	G	3-2	0701	W	10		3	1	1	1	1	2	1				E03
	SW-4	G	3-2	0742	W	10		3	1	1	1	1	2	1				E03
	SW-1	G	3-2	0901	W	10		3	1	1	1	1	2	1				E04
	~~SW-B~~	G	3-2		W	10		3	1	1	1	1	2	1	DRY POINT			
	TRIP	G	3-2	—	W	2		2										E04

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 temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Form revised 2/8/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		3-2-20	1010		3-2-2020	1010
2						
3						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:

Tuesday, March 17, 2020 12:06:44 PM
Page 155 of 155

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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 6020

Preparation: SW-846 3010A

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: All acceptance criteria were met.

E. Serial Diluion: Due to background analytes present in the matrtix, the proper quantitaion of the Scandium and Yttrium internal standards in J200266021 were obstructed. In order to separate out and return the internal standards to within acceptance limits, this sample was analyzed at a dilution.

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.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Barium, Calcium, and Magnesium for J2002766022 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Matrix Spike Duplicate (MSD) were acceptable, which indicates the analytical batch was in control. . No further corrective action is 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.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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 J2002766004 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:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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: The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of J2002766018 was outside control criteria: NH3. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the MSD and associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.

D. Spikes: The matrix spike recovery of NH3 for J2002766018 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:

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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 duplicate recovery of NH3 for J2002766029 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS), Matrix Spike (MS) 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.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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 J2002766040 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.: J2002766

Client Name: City of Jacksonville

ProjectID: Trail Ridge Landfill

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 recoveries of Chloride and Nitrate for J2002766006 were outside control criteria due. 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 accordingly.

E. Serial Diluion:

F. Samples: Sample analyses proceeded normally.

G. Other:

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 923-9339
Baton Rouge (504) 293-0136
Jacksonville (904) 693-3177
Houston (281) 443-7606
Pittsburgh (412) 776-8833

FACILITY NAME: TRAIL RIDGE

?TH TO WATER
3ASUREMENTS

DATE: 2-26-20

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB-27S	7.64
MWB-27I	8.83
MWB-27D	9.21
MWB-29S	8.40
MWB-29I	9.28
MWB-29D	9.39
MWB-3S	9.38
MWB-3I	15.40
MWB-11S	12.77
MWB-11I(R)	15.65
MWB-13S	12.46
MWB-13I	17.70
MWB-12S	11.13
MWB-12I	10.00
MWB-12D	8.02
MWB-22S	12.59
MWB-20S	10.65

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB-2S	10.22
MWB-2I	12.73
MWB-33S	10.45
MWB-34S	9.69
MWB-34I	10.12
MWB-34D	10.31
MWB-21S	11.68
MWB-14S	WATER LEVEL IS BELOW PUMP
MWB-14I	11.40
MWB-14D	11.43
MWB-24S	7.23
MWB-25S	8.08
MWB-25I	7.41
MWB-25D	8.00
MWB-32S	8.78
MWB-32I	9.02
MWB-32D	9.19

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 693-0177
Houston (281) 441-7696
Pittsburgh (412) 746-8833

?TH TO WATER
3ASUREMENTS

FACILITY NAME: TRAIL RIDGE

DATE: 2-26-20

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MWB-26S	7.42
MWB-28S	7.42
MWB-30S	14.08
MWB-31D	20.01
MWB-7S	11.44
MWB-7I	8.20
MWB-7D	4.61
MWB-35S	8.29
MWB-35I	10.26
MWB-39S	14.76
MWB-39I	13.10
MWB-40S	10.50
SGMW-1S(R)	15.94
SGMW-2S	15.37
MWB-23S	15.62

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 200710329

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 90103 EXP: JAN 2021

Standard B 10.0 NTU HF SCIENTIFIC LOT# 90102 EXP: JAN 2021

Standard C 0.02 NTU HF SCIENTIFIC LOT# 90101 EXP: JAN 2021

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/26	0610	A	1000	AUTO CAL	-	YES	INIT	DM
"	"	B	10.0	"	-	YES	INIT	DM
		C	0.02		-	YES	INIT	DM
20/02/27	0715	A	1000	AUTO CAL	-	YES	CONT	DM
"	"	B	10.0	"	-	YES	CONT	DM
		C	0.02		-	YES	CONT	DM
20/02/28	0610	A	1000	AUTO CAL	-	YES	CONT	DM
"	"	B	10.0	"	-	YES	CONT	DM
		C	0.02		-	YES	CONT	DM
20/03/02	0615	A	1000	AUTO CAL	-	YES	INIT	DM
"	"	B	10.0	"	-	YES	INIT	DM
		C	0.02		-	YES	INIT	DM

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]* 2708A/4 EXP: 7/23/20

Standard A 7.00 (std) PINE ENV LOT# ~~9GA1010 EXP: 1/21~~

Standard B 4.00 (std) PINE ENV LOT# 9GA1013 EXP: 1/21

Standard C 10.00 (std) PINE ENV LOT# 2703951 EXP: 8/20/20

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/26	0610	A	7.00	AUTO CAL	-	YES	INIT	DA
"	"	B	4.00	"	-	YES	INIT	DA
"	"	C	10.00	"	-	YES	INIT	DA
20/02/27	0715	A	7.00	AUTO CAL	-	YES	CONT	DA
"	"	B	4.00	"	-	YES	CONT	DA
"	"	C	10.00	"	-	YES	CONT	DA
20/02/28	0610	A	7.00	AUTO CAL	-	YES	CONT	DA
"	"	B	4.00	"	-	YES	CONT	DA
"	"	C	10.00	"	-	YES	CONT	DA
20/03/02	0615	A	7.00	AUTO CAL	-	YES	INIT	DA
"	"	B	4.00	"	-	YES	INIT	DA
"	"	C	10.00	"	-	YES	INIT	DA
							*	

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A SATURATED AIR

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	%DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/26	0610	A	100% SAT	100%	-	Yes	INIT	DA
20/02/27	0715	A	100% SAT	(00)%	-	Yes	CONT	DA
20/02/28	0610	A	100% SAT	100%	-	Yes	CONT	DA
20/03/02	0615	A	100% SAT	100%	-	Yes	INIT	DA

Table FS 2200-2
Dissolved Oxygen Saturation

TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L	TEMP	D.O.	mg/L
deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%	deg C	SAT.	20%
15.0	10.084	2.017	19.0	9.276	1.855	23.0	8.578	1.716	27.0	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.040	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.940	1.588
15.3	10.019	2.004	19.3	9.220	1.844	23.3	8.530	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.840	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.700	27.5	7.898	1.580
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.870	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.450	1.690	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16.0	9.870	1.974	20.0	9.092	1.818	24.0	8.418	1.684	28.0	7.828	1.566
16.1	9.849	1.970	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.800	1.560
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.340	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.950	1.790	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17.0	9.665	1.933	21.0	8.915	1.783	25.0	8.263	1.653	29.0	7.691	1.538
17.1	9.645	1.929	21.1	8.896	1.780	25.1	8.248	1.650	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.880	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.530
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.545	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.520
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18.0	9.467	1.893	22.0	8.744	1.749	26.0	8.114	1.623	30.0	7.559	1.512
18.1	9.448	1.890	22.1	8.727	1.745	26.1	8.099	1.620	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.710	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.070	1.614	30.3	7.520	1.504
18.4	9.390	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.660	1.732	26.5	8.040	1.608	30.5	7.494	1.499
18.6	9.352	1.870	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

Derived using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 1992

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI Pro Series INSTRUMENT # 15D100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1.413 mS/cm Pine Env. Lot# 8GJ1041 Exp: 10/19

Standard B _____

Standard C _____

DATE (y/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/02/26	0610	A	1.413	Auto Cal	-	Yes	Init	DA
20/02/27	0715	A	1.413	Auto Cal	-	Yes	Cont	DA
20/02/28	0610	A	1.413	Auto Cal	-	Yes	Cont	DA
20/03/02	0615	A	1.413	Auto Cal	-	Yes	Init	DA

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: TRAIL RIDGE Personnel: DANNY ARMOUR

Date: 2-26-20 Page 1 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB-3S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-20S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☒ Turbid	☐ OK ☐ Inadequate	SLIGHTLY TURBID
MWB-11S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-13S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☒ Turbid	☐ OK ☐ Inadequate	SLIGHTLY TURBID
MWB-22S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-12S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☒ Turbid	☐ OK ☐ Inadequate	SLIGHTLY TURBID
MWB-29S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-27S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-12I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-13I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager - FOR INTERNAL USE ONLY.

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: TRAIL RIDGE Personnel: DANNY ARMOUR

Date: 2-26-20 Page 2 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MWB-11S(R)	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-3I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-27I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-29I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-2I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-34I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-21S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	--
MWB-32I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-33S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-34S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager - FOR INTERNAL USE ONLY.

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: TRAIL RIDGE Personnel: DANNY ARMOUR

Date: 2-26-20 Page 3 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations*
MWB-32S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☒ Turbid	☒ OK ☐ Inadequate	SLIGHTLY TURBID
MWB-2S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☒ Turbid	☒ OK ☐ Inadequate	TURBID
MWB-35S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	PERISTALTIC PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-35I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-39S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-39I	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MWB-40S	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
SGMW-1S(R)	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☐ Yes ☒ No	"	☐ Clear ☒ Turbid	☒ OK ☐ Inadequate	LOCK HAD TO BE CUT TURBID
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	"	☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to Site Manager - FOR INTERNAL USE ONLY.

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: EQUIPMENT BLANK	SAMPLE ID:		DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA		TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
1351	NA	NA	NA	NA	6.78	19.1	6	0.8	0.00	28	NONE	

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: DAN ARMOUR BLAINE GRISSOM / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1351		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)			DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(SE)	SEE SAMPLE I.D. AND			BOTTLE ORDER			WORKSHEET		

REMARKS:
SHEEN: NA EB- COMPLETED USING D.I. H2O PROVIDED BY TEST AMERICA

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB21S | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet | STATIC DEPTH TO WATER (feet): 11.68 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 122.84 | GROUNDWATER ELEVATION (ft NGVD): 111.16

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.00 feet - 11.68 feet) X 0.163 gallons/foot = 1.03 gallons

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

= 0.3 gallons + (0.006 gallons/foot X 18.00 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00 | PURGING INITIATED AT: 1317 | PURGING ENDED AT: 1336 | TOTAL VOLUME PURGED (gallons) 3.04

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)	ORP (mV)	COLOR	ODOR
326	1.44	1.44	0.16	11.93	4.82	22.6	130	0.6	2.48	165		
329	0.48	1.92	0.16	11.92	4.83	22.9	129	0.6	2.34	163		
332	0.48	2.40	0.16	11.93	4.82	22.7	129	0.6	2.86	161		
335	0.48	2.88	0.16	11.93	4.82	22.7	130	0.6	3.09	160	None	

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./FL): 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: N ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1336 | SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 13.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:
DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# OF CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:
Sheen Present YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MW205 | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 10.65 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 121.01 | GROUNDWATER ELEVATION (ft NGVD): 110.36

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (20.00 feet - 10.65 feet) X 0.163 gallons/foot = 1.52 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 1240 | PURGING ENDED AT: 1301 | TOTAL VOLUME PURGED (gallons): 3.36

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 & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
251	1.76	1.76	0.16	10.97	4.64	22.6	396	0.4	27.70	178		
254	0.48	2.24	0.16	10.97	4.65	22.5	398	0.4	22.50	177		
257	0.48	2.72	0.16	10.97	4.66	22.5	399	0.3	15.98	175		
300	0.48	3.20	0.16	10.97	4.66	22.4	401	0.3	17.87	174	YELLOW	
											TAN	
											TINT	

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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1301 | SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:
Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB2S | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 10.22 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 146.64 | GROUNDWATER ELEVATION (ft NGVD): 136.42

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (20.00 feet - 10.22 feet) X 0.163 gallons/foot = 1.59 gallons

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

= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 1133 | PURGING ENDED AT: 1154 | TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1144	1.50	1.50	0.15	11.32	4.64	19.2	34	2.0	68.42	173		
1147	0.45	1.95	0.15	11.37	4.66	19.2	34	2.0	72.41	174		
1150	0.45	2.40	0.15	11.37	4.63	19.2	35	2.0	76.20	175		
1153	0.45	2.85	0.15	11.37	4.67	19.1	35	2.0	74.83	176	Brown	

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./FL): 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: IAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1154 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

PUMP DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET									

REMARKS:

Sheen Present: YES (NO)

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

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

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

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

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

FORM D 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW1R12.5 | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 14.5 feet to 24.5 feet | STATIC DEPTH TO WATER (feet): 11.13 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.63 | GROUNDWATER ELEVATION (ft NGVD): 113.50

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)

= 0.3 gallons + (0.006 gallons/foot X 24.50 feet) + 0.05 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50 | PURGING INITIATED AT: 1033 | PURGING ENDED AT: 1053 | TOTAL VOLUME PURGED (gallons): 3.40

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)	ORP (mV)	COLOR	ODOR
043	1.70	1.70	0.17	12.56	5.79	21.7	244	1.2	30.34	124		
046	0.51	2.21	0.17	12.56	5.75	21.6	241	1.3	30.81	121		
049	0.51	2.72	0.17	12.56	5.74	21.7	239	1.3	30.75	119		
052	0.51	3.23	0.17	12.57	5.72	21.7	238	1.3	30.44	118	BROWN	

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" = 0.0025; 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: IAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1053 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 19.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SIZE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present YES (NO)

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)

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB22S | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet | STATIC DEPTH TO WATER (feet): 12.59 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 126.97 | GROUNDWATER ELEVATION (ft NGVD): 114.38

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)

= 0.3 gallons + (0.006 gallons/foot X 26.00 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.00 | PURGING INITIATED AT: 0933 | PURGING ENDED AT: 0953 | TOTAL VOLUME PURGED (gallons): 3.60

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)	ORP (mV)	COLOR	ODOR
1943	1.80	1.80	0.18	12.87	6.10	22.7	535	0.2	3.03	141		
946	0.54	2.34	0.18	12.88	6.09	22.7	534	0.2	3.48	140		
949	0.54	2.88	0.18	12.88	6.09	22.7	534	0.2	3.60	138		
952	0.54	3.42	0.18	12.88	6.09	22.6	532	0.2	3.74	136	SLT	
											YELLOW	
											TINT	

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./FL): 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: N ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0953 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 21.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

EQUIPMENT DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present YES (NO)

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 J)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB13S | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 16.56 feet to 26.56 feet | STATIC DEPTH TO WATER (feet): 12.46 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 126.06 | GROUNDWATER ELEVATION (ft NGVD): 113.60

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)

= 0.3 gallons + (0.006 gallons/foot X 26.56 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.56 | PURGING INITIATED AT: 0901 | PURGING ENDED AT: 0921 | TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ppm)	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)	ORP (mV)	COLOR	ODOR
911	1.80	1.80	0.18	13.90	5.84	20.8	770	1.3	16.74	154		
914	0.54	2.34	0.18	13.91	5.84	20.9	772	1.3	15.21	154		
919	0.54	2.88	0.18	13.91	5.84	20.9	773	1.3	15.57	155		
920	0.54	3.42	0.18	13.91	5.85	20.8	774	1.3	15.83	155	LT. BROWN	

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; 6" = 1.02; 8" = 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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0921 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 21.56 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

PUMP / TUBING DECONTAMINATION: PUMP Y (ND) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SIZE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET									

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB295 | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 8.40 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 138.02 | GROUNDWATER ELEVATION (ft NGVD): 129.62

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)
= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 0802 | PURGING ENDED AT: 0822 | TOTAL VOLUME PURGED (gallons): 3.20

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)	ORP (mV)	COLOR	ODOR
0812	1.60	1.60	0.16	8.56	4.53	18.7	150	0.7	4.12	140		
0815	0.48	2.08	0.16	8.57	4.54	18.7	150	0.8	3.44	139		
0818	0.48	2.56	0.16	8.57	4.55	18.7	150	0.7	3.50	137		
0821	0.48	3.04	0.16	8.57	4.55	18.7	149	0.8	3.94	136	NONE	

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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0822 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present: YES (NO)

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)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MW273 | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 5.5 feet to 15.5 feet | STATIC DEPTH TO WATER (feet): 7.64 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 128.42 | GROUNDWATER ELEVATION (ft NGVD): 120.78

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (15.50 feet - 7.64 feet) X 0.113 gallons/foot = 1.28 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 15.50 feet) + 0.05 gallons = 0.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | PURGING INITIATED AT: 0701 | PURGING ENDED AT: 0721 | TOTAL VOLUME PURGED (gallons): 7.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
711	1.40	1.40	0.14	7.89	5.53	19.0	414	0.3	5.13	123		
714	0.42	1.82	0.14	7.90	5.54	19.0	415	0.3	5.73	123		
717	0.42	2.24	0.14	7.90	5.54	19.0	416	0.4	4.72	123		
720	0.42	2.66	0.14	7.90	5.54	19.0	417	0.4	4.46	122	LT TAN	

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; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 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: N ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0721 | SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 13.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:
EQUIPMENT DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:
Sheen Present: YES (NO)
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)

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB27I | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 52.5 feet to 62.5 feet | STATIC DEPTH TO WATER (feet): 8.83 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 128.63 | GROUNDWATER ELEVATION (ft NGVD): 119.80

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)
= 0.3 gallons + (0.006 gallons/foot X 62.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.50 | PURGING INITIATED AT: 0631 | PURGING ENDED AT: 0651 | TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
641	2.50	2.50	0.25	8.90	5.18	20.8	58	0.2	3.53	88		
644	0.75	3.25	0.25	8.90	5.19	20.7	58	0.2	4.52	87		
647	0.75	4.00	0.25	8.91	5.19	20.8	58	0.2	4.66	87		
650	0.75	4.75	0.25	8.91	5.19	20.8	58	0.2	4.10	86	NONE	

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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0651 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 57.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present: YES (NO)

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: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW329I | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 53.5 feet to 63.5 feet | STATIC DEPTH TO WATER (feet): 9.28 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 138.08 | GROUNDWATER ELEVATION (ft NGVD): 128.80

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)

= 0.3 gallons + (0.006 gallons/foot X 63.50 feet) + 0.05 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.50 | PURGING INITIATED AT: 0733 | PURGING ENDED AT: 0754 | TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
743	2.50	2.50	0.25	9.37	4.83	23.7	49	0.5	9.97	106		
747	0.75	3.25	0.25	9.37	4.81	23.8	49	0.5	10.04	109		
750	0.75	4.00	0.25	9.37	4.79	23.7	49	0.5	9.71	106		
753	0.75	4.75	0.25	9.37	4.79	23.7	49	0.5	9.86	105	LT. TAN	

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./FL): 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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0754 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 58.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB13I | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 50.4 feet to 60.4 feet | STATIC DEPTH TO WATER (feet): 17.70 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.98 | GROUNDWATER ELEVATION (ft NGVD): 108.28

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)

= 0.3 gallons + (0.006 gallons/foot X 60.40 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.40 | PURGING INITIATED AT: 0839 | PURGING ENDED AT: 0853 | TOTAL VOLUME PURGED (gallons): 4.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
843	2.40	2.40	0.34	18.13	4.91	25.9	46	0.2	3.19	112		
846	0.72	3.12	0.24	18.13	4.91	25.9	46	0.2	3.66	110		
849	0.72	3.84	0.24	18.13	4.90	26.0	46	0.2	4.32	110		
852	0.72	4.56	0.24	18.14	4.90	26.0	46	0.2	4.21	109	NONE	

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./FL): 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: IN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0853 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 55.40 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
E	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
E	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

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)

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB12I | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 61.5 feet to 71.5 feet | STATIC DEPTH TO WATER (feet): 10.00 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.62 | GROUNDWATER ELEVATION (ft NGVD): 114.62

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)

= 0.3 gallons + (0.006 gallons/foot X 71.50 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.50 | PURGING INITIATED AT: 1004 | PURGING ENDED AT: 1024 | TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ppm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
014	2.70	2.70	0.27	10.05	4.93	25.6	48	0.1	2.41	106		
017	0.81	3.51	0.27	10.05	4.92	25.7	49	0.1	2.97	105		
020	0.81	4.32	0.27	10.05	4.93	25.7	48	0.1	2.92	104		
023	0.81	5.13	0.27	10.05	4.92	25.7	49	0.1	3.01	104	NONE	

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; 6" = 1.02; 8" = 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: W ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1024 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 66.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB2I | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 51.5 feet to 61.5 feet | STATIC DEPTH TO WATER (feet): 12.73 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 145.73 | GROUNDWATER ELEVATION (ft NGVD): 133.00

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)
= 0.3 gallons + (0.006 gallons/foot X 61.50 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.50 | PURGING INITIATED AT: 1105 | PURGING ENDED AT: 1125 | TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
115	2.50	2.50	0.25	12.82	4.57	20.8	47	0.2	3.37	120		
118	0.75	3.25	0.25	12.82	4.55	20.8	47	0.2	2.47	120		
121	0.75	4.00	0.25	12.82	4.56	20.8	47	0.2	2.77	120		
124	0.75	4.75	0.25	12.82	4.55	20.8	47	0.2	2.26	119	NONE	

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./FL): 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: N ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1125 | SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 56.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:
DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION: SAMPLE ID CODE	NO. OF CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:
Sheen Present: YES (NO)

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)

3: 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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB11I (R) | SAMPLE ID: | DATE: 2-26-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 45 feet to 55 feet | STATIC DEPTH TO WATER (feet): 15.65 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 120.43 | GROUNDWATER ELEVATION (ft NGVD): 104.78

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)
= 0.3 gallons + (0.006 gallons/foot X 55.00 feet) + 0.05 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | PURGING INITIATED AT: 1207 | PURGING ENDED AT: 1227 | TOTAL VOLUME PURGED (gallons): 4.90

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)	ORP (mV)	COLOR	ODOR
1217	2.60	2.60	0.23	15.82	4.68	23.9	43	0.1	3.70	137		
1220	0.69	3.29	0.23	15.82	4.68	23.8	43	0.1	2.89	136		
1223	0.69	3.98	0.23	15.82	4.69	23.7	42	0.1	2.81	135		
1226	0.69	4.67	0.23	15.82	4.69	23.7	43	0.1	3.01	134	NONE	

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./FL): 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: IN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1227 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 50.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET			

REMARKS:

Sheen Present YES (NO)

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

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

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE, FL
WELL NO:	SGMW-1SR	SAMPLE ID:		DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: 8.2 feet to 18.2 feet	STATIC DEPTH TO WATER (feet):	15.94		PURGE PUMP TYPE OR BAILER:	PP
WELL ELEVATION TOC (ft NGVD):	NA				GROUNDWATER ELEVATION (ft NGVD):	NA			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (18.20 feet – 15.94 feet) X 0.1163 gallons/foot = 0.37 gallons

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

= 0.0 gallons + (0.0026 gallons/foot X 18.20 feet) + 0.05 gallons = 0.10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	18.10	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	18.10	PURGING INITIATED AT:	1453	PURGING ENDED AT:	1511		TOTAL VOLUME PURGED (gallons):	1.26

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)	ORP (mV)	COLOR	ODOR
1501	0.56	0.56	0.07	17.03	5.86	19.0	151	1.2	39.16	67		
1504	0.21	0.77	0.07	17.03	5.86	19.1	151	1.2	38.11	65		
1507	0.21	0.98	0.07	17.03	5.86	19.2	151	1.2	37.94	64		
1510	0.21	1.19	0.07	17.03	5.87	19.2	151	1.3	36.73	63	LT. BROWN	

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:	DANNY ARMOUR / PRP-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1511		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	18.10	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y N (replaced)			DUPLICATE:	Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: No

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SGMW-2S	SAMPLE ID:		DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 7.7 feet to 17.7 feet	STATIC DEPTH TO WATER (feet): 15.37	PURGE PUMP TYPE OR BAILER: PP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (17.70 feet - 15.37 feet) X 0.163 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)

= 0.0 gallons + (0.0026 gallons/foot X 17.70 (feet) + 0.05 gallons = 0.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.50	PURGING INITIATED AT: 1530	PURGING ENDED AT: 1548	TOTAL VOLUME PURGED (gallons): 1.44

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)	ORP (mV)	COLOR	ODOR
1538	0.64	0.64	0.08	15.78	4.97	19.4	54	0.3	10.59	66		
1541	0.24	0.88	0.08	15.78	4.96	19.4	54	0.3	10.03	64		
1544	0.24	1.12	0.08	15.78	4.95	19.4	54	0.3	9.46			
1547	0.24	1.36	0.08	15.78	4.95	19.4	54	0.3	9.71	63	LT. BROWN	

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./FL): 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: DANNY ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1548	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 17.50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(E)	SEE SAMPLE L-I-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present: YES (NO)

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 J)

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: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: EQUIPMENT BLANK #1 | SAMPLE ID: | DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): NA | TUBING DIAMETER (inches): NA | WELL SCREEN INTERVAL DEPTH: - feet to - feet | STATIC DEPTH TO WATER (feet): NA | PURGE PUMP TYPE OR BAILER: NA

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

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 =

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): NA | FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA | PURGING INITIATED AT: NA | PURGING ENDED AT: NA | TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
1610	NA	NA	NA	NA	6.82	20.1	7	0.9	0.00	33	NONE	

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./FL): 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: DANNY ARMOUR/PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1610 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): NA | TUBING MATERIAL CODE: NA | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y N NA | TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(X)	SEE SAMPLE C-O-C								

REMARKS:

Sheen Present: YES (NO) EB- COMPLETED USING D.I. H2O PROVIDED BY TEST AMERICA

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB-35I | SAMPLE ID: | DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 53 (feet) to 63 (feet) | STATIC DEPTH TO WATER (feet): 10.76 | PURGE PUMP TYPE OR BAILER: PP

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

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)

= 0.0 gallons + (0.0026 gallons/foot X 63.40 feet) + 0.05 gallons = 0.21 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.40 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.40 | PURGING INITIATED AT: 1346 | PURGING ENDED AT: 1406 | TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1356	1.40	1.40	0.14	10.86	4.52	21.5	48	0.1	2.90	166		
1359	0.42	1.82	0.14	10.86	4.53	21.4	48	0.1	3.42	166		
1402	0.42	2.24	0.14	10.86	4.52	21.5	48	0.1	3.94	165		
1405	0.42	2.66	0.14	10.86	4.51	21.6	48	0.1	3.73	165	NONE	

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./FL): 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: DANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1406 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 58.40 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(SEE)	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB3I | SAMPLE ID: | DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 52 feet to 62 feet | STATIC DEPTH TO WATER (feet): 15.40 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 151.86 | GROUNDWATER ELEVATION (ft NGVD): 136.46

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)
= 0.3 gallons + (0.006 gallons/foot X 62.00 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | PURGING INITIATED AT: 1311 | PURGING ENDED AT: 1331 | TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1321	2.50	2.50	0.25	16.44	4.36	21.4	49	0.4	2.65	28		
1324	0.75	3.25	0.25	16.44	4.34	21.4	48	0.5	2.97	26		
1327	0.75	4.00	0.25	16.44	4.34	21.3	48	0.5	3.32	25		
1330	0.75	4.75	0.25	16.45	4.36	21.4	48	0.5	3.53	24	NONE	

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./FL): 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: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1331 | SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 57.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present YES (NO)

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; FFPP = 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: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW8-39I | SAMPLE ID: | DATE: 2.27.20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 53.88 feet to 63.88 feet | STATIC DEPTH TO WATER (feet): 13.10 | PURGE PUMP TYPE OR BAILER: PP

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

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)
= 0.0 gallons + (0.0026 gallons/foot X 63.88 feet) + 0.05 gallons = 0.20 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.88 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.88 | PURGING INITIATED AT: 1101 | PURGING ENDED AT: 1121 | TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1111	1.40	1.40	0.14	14.51	5.08	21.7	46	0.1	3.92	89		
1114	0.42	1.82	0.14	14.51	5.10	21.6	46	0.1	2.66	85		
1117	0.42	2.24	0.14	14.51	5.09	21.7	47	0.1	3.90	83		
1120	0.42	2.66	0.14	14.51	5.10	21.7	47	0.1	2.93	83	NONE	

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: DANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1121 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 55.88 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
(N)	SEE SAMPLE LOG AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES (NO)

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: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB-35S	SAMPLE ID:		DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 7.5 feet to 17.5 feet	STATIC DEPTH TO WATER (feet): 8.29	PURGE PUMP TYPE OR BAILER: PP
WELL ELEVATION TOC (ft NGVD): NA		GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.50 feet - 8.29 feet) X 0.163 gallons/foot = 1.50 gallons

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

= 0.0 gallons + (0.0026 gallons/foot X 17.50 feet) + 0.05 gallons = 0.10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.00	PURGING INITIATED AT: 1416	PURGING ENDED AT: 1437		TOTAL VOLUME PURGED (gallons): 3.94

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)	ORP (mV)	COLOR	ODOR
1429	1.54	1.54	0.14	8.59	4.62	20.2	43	0.1	4.61	57		
1430	0.42	1.96	0.14	8.59	4.61	20.1	44	0.1	5.05	56		
1433	0.42	2.38	0.14	8.60	4.61	20.2	43	0.1	4.44	55		
1436	0.42	2.80	0.14	8.60	4.61	20.1	43	0.1	5.01	53	VERY	
											LT.	
											TAN	

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: DANNY ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1437	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 17.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(N)	SEE SAMPLE L-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB3S | SAMPLE ID: | DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet | STATIC DEPTH TO WATER (feet): 9.38 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 154.38 | GROUNDWATER ELEVATION (ft NGVD): 145.00

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)

= 0.3 gallons + (0.006 gallons/foot X 20.00 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | PURGING INITIATED AT: 1240 | PURGING ENDED AT: 1300 | TOTAL VOLUME PURGED (gallons): 3.20

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)	ORP (mV)	COLOR	ODOR
1250	1.60	1.60	0.16	9.60	4.27	19.3	59	0.6	4.64	198		
1253	0.48	2.08	0.16	9.60	4.27	19.3	59	0.7	4.71	198		
1256	0.48	2.56	0.16	9.60	4.29	19.4	60	0.6	4.80	198		
1259	0.48	3.04	0.16	9.60	4.30	19.3	60	0.7	4.41	199	NONE	

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./FL): 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: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1300 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present YES (NO)

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: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB-40S | SAMPLE ID: | DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 8.5 feet to 18.5 feet | STATIC DEPTH TO WATER (feet): 10.50 | PURGE PUMP TYPE OR BAILER: PP

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.52 feet - 10.50 feet) X 0.163 gallons/foot = 1.31 gallons

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

= 0.0 gallons + (0.0026 gallons/foot X 18.52 feet) + 0.05 gallons = 0.10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | PURGING INITIATED AT: 1202 | PURGING ENDED AT: 1223 | TOTAL VOLUME PURGED (gallons): 2.73

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)	ORP (mV)	COLOR	ODOR
1213	1.43	1.43	0.13	10.60	4.68	20.2	300	0.1	4.55	-55		
1216	0.39	1.82	0.13	10.60	4.65	20.3	296	0.1	3.90	-55		
1219	0.39	2.21	0.13	10.61	4.66	20.3	294	0.1	4.14	-54		
1222	0.39	2.60	0.13	10.61	4.65	20.3	292	0.1	4.17	-54	YELLOW TINT	

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; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 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: DANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1223 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(S)	SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES (NO)

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: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: MWB-395	SAMPLE ID:		DATE: 2-27-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 8.9 feet to 18.9 feet	STATIC DEPTH TO WATER (feet): 14.76		PURGE PUMP TYPE OR BAILER: PP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.90 feet - 14.76 feet) X 0.163 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)

= 0.0 gallons + (0.0024 gallons/foot X 18.90 (feet) + 0.05 gallons = 0.10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1150		TOTAL VOLUME PURGED (gallons): 1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or pS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1140	0.90	0.90	0.09	15.00	5.39	19.8	367	0.4	3.35	-72		
1143	0.27	1.17	0.09	15.00	5.32	19.9	368	0.4	4.03	-70		
1146	0.27	1.44	0.09	15.00	5.31	20.0	365	0.4	3.92	-72		
1149	0.27	1.71	0.09	15.00	5.33	20.0	365	0.3	4.08	-74	SLT	
											YELLOW	
											TINT	

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: DANNY ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1150	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 18.00	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(N)	SEE SAMPLE L-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES NO

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB34S | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 8.36 feet to 18.36 feet | STATIC DEPTH TO WATER (feet): 9.69 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.78 | GROUNDWATER ELEVATION (ft NGVD): 116.09

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.36 feet − 9.69 feet) X 0.123 gallons/foot = 1.41 gallons

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

= 0.3 gallons + (0.006 gallons/foot X 18.36 feet) + 0.05 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | PURGING INITIATED AT: 0705 | PURGING ENDED AT: 0725 | TOTAL VOLUME PURGED (gallons): 3.20

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)	ORP (mV)	COLOR	ODOR
0715	1.60	1.60	0.16	11.40	6.33	19.3	861	0.1	4.80	114		
0718	0.48	2.08	0.16	11.40	6.34	19.4	854	0.1	2.39	111		
0721	0.48	2.56	0.16	11.40	6.34	19.3	851	0.1	2.98	109		
0724	0.48	3.04	0.16	11.40	6.36	19.3	847	0.1	3.42	108	SLT YELLOW TINT	

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./FL): 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: AN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0725 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 13.36 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
* SEE SAMPLE				C-O-C	AND BOTTLE		ORDER	WORKSHEET	

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB33J | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 10.3 feet to 20.3 feet | STATIC DEPTH TO WATER (feet): 10.45 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.90 | GROUNDWATER ELEVATION (ft NGVD): 115.45

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (20.30 feet - 10.45 feet) X 0.163 gallons/foot = 1.61 gallons

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

= 0.3 gallons + (0.006 gallons/foot X 20.30 feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.30 | PURGING INITIATED AT: 0738 | PURGING ENDED AT: 0759 | TOTAL VOLUME PURGED (gallons): 3.36

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)	ORP (mV)	COLOR	ODOR
0749	1.76	1.76	0.16	10.60	5.53	18.8	167	0.1	5.21	114		
0752	0.48	2.24	0.16	10.60	5.53	18.9	167	0.1	4.37	114		
0755	0.48	2.72	0.16	10.60	5.55	18.8	168	0.1	4.41	114		
0758	0.48	3.20	0.16	10.60	5.57	18.8	169	0.1	4.60	115	SLT	
											YELLOW	
											TINT	

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: AN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0759 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 15.30 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB32S | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 9.9 feet to 19.9 feet | STATIC DEPTH TO WATER (feet): 8.78 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 124.64 | GROUNDWATER ELEVATION (ft NGVD): 115.86

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)

= 0.3 gallons + (0.006 gallons/foot X 19.90 (feet) + 0.05 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | PURGING INITIATED AT: 0857 | PURGING ENDED AT: 0907 | TOTAL VOLUME PURGED (gallons): 3.20

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)	ORP (mV)	COLOR	ODOR
0857	1.60	1.60	0.16	9.26	5.26	18.0	127	0.1	9.76	118		
0900	0.48	2.08	0.16	9.26	5.28	18.0	129	0.1	10.60	118		
0903	0.48	2.56	0.16	9.26	5.31	18.1	132	0.1	10.90	117		
0906	0.48	3.04	0.16	9.26	5.33	18.0	133	0.1	12.46	117	LT. BROWN	

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./FL): 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: AN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0907 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 14.90 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

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: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MW813S | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet | STATIC DEPTH TO WATER (feet): 12.77 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 120.81 | GROUNDWATER ELEVATION (ft NGVD): 108.04

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (19.50 feet - 12.77 feet) X 0.163 gallons/foot = 1.10 gallons

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

= 0.3 gallons + (0.006 gallons/foot X 19.50 feet) + 0.05 gallons = 0.97 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50 | PURGING INITIATED AT: 0921 | PURGING ENDED AT: 0941 | TOTAL VOLUME PURGED (gallons): 3.20

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 & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0931	1.60	1.60	0.16	12.92	4.20	20.0	184	0.3	5.46	195		
0934	0.48	2.08	0.16	12.92	4.20	20.0	184	0.3	5.14	194		
0937	0.48	2.56	0.16	12.92	4.20	19.9	184	0.3	4.28	194		
0940	0.48	3.04	0.16	12.92	4.20	19.9	184	0.3	4.87	194	NONE	

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./FL): 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: SEAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0941 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 14.50 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB34I | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 43.95 feet to 53.95 feet | STATIC DEPTH TO WATER (feet): 10.12 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 125.80 | GROUNDWATER ELEVATION (ft NGVD): 115.68

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)

= 0.3 gallons + (0.006 gallons/foot X 53.95 feet) + 0.05 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | PURGING INITIATED AT: 0636 | PURGING ENDED AT: 0656 | TOTAL VOLUME PURGED (gallons): 4.60

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)	ORP (mV)	COLOR	ODOR
0646	2.30	2.30	0.23	10.18	5.02	21.5	47	0.2	4.11	48		
0649	0.69	2.99	0.23	10.18	5.02	21.5	47	0.3	4.11	47		
0652	0.69	3.68	0.23	10.18	5.02	21.5	48	0.2	4.35	47		
0655	0.69	4.37	0.23	10.18	5.01	21.4	48	0.3	3.99	46	NONE	

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./FL): 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: AN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0656 | SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 48.95 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:

Sheen Present: YES (NO)

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

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL
WELL NO: MWB32I | SAMPLE ID: | DATE: 2-28-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 54.5 feet to 64.5 feet | STATIC DEPTH TO WATER (feet): 9.02 | PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 124.79 | GROUNDWATER ELEVATION (ft NGVD): 115.77

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)
= 0.3 gallons + (0.006 gallons/foot X 54.56 feet) + 0.05 gallons = 0.79 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | PURGING INITIATED AT: 0817 | PURGING ENDED AT: 0837 | TOTAL VOLUME PURGED (gallons): 5.20

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)	ORP (mV)	COLOR	ODOR
0827	2.60	2.60	0.26	9.18	5.16	17.9	48	0.1	6.45	99		
0830	0.78	3.38	0.26	9.19	5.16	17.9	48	0.1	6.24	98		
0833	0.78	4.16	0.26	9.19	5.14	18.0	48	0.1	6.23	99		
0836	0.78	4.94	0.26	9.19	5.14	18.1	48	0.1	6.14	98	NONE	

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./FL): 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: JAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0837 | SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): 59.56 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE	C-O-C	AND	BOTTLE	ORDER	WORKSHEET		

REMARKS:
Sheen Present: YES (NO)
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL
WELL NO: SW-6	SAMPLE ID:	DATE: 3-2-20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA		TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
0645	NA	NA	NA	NA	7.02	14.8	229	6.9	25.96	160	LT. BROWN	

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" = 0.008; 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: DAN ARMOUR, BLAINE GRISSOM / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0645		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)			DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(SW)	SEE SAMPLE I.D.-4 AND			BOTTLE ORDER			WORKSHEET		

REMARKS:
SHEEN: No SW-6 = SURFACE WATER POINT NO FLOW AT WIER TAKEN FROM POND

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: ±6% 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: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-5	SAMPLE ID:		DATE: 3-3-20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: - feet to - feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
0701	NA	NA	NA	NA	7.61	15.1	202	6.9	17.69	183	LT BROWN	

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: DAN ARMOUR, BLAINE GIBSON / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0701	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
(SW)	SEE SAMPLE L-D-4 AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO SW-5 = SURFACE WATER POINT FLOW AT WIER

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: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-7	SAMPLE ID:		DATE: 3-2-20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: - feet to - feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
0721	NA	NA	NA	NA	6.83	11.6	130	4.9	42.08	194	LT TAN	

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: DAN ARMOUR, BLAINE GRISSOM / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0721	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(N)	SEE SAMPLE I.D.-S AND BOTTLE ORDER WORKSHEET								

REMARKS:
SHEEN: NO SW-7 = SURFACE WATER POINT

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-B	SAMPLE ID:		DATE: 3-2-26

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA		TOTAL VOLUME PURGED (gallons): NI

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)	ORP (mV)	COLOR	ODOR
	NA	NA	NA	NA								
		NO FLOW IN THE CANAL AT SW-B										
		A FEW DISJOINTED PUDDLES - NO FLOW										
				NO SAMPLES COLLECTED								

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: DAN ARMOUR, BLAINE GIBSON / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y N (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(X)	SEE SAMPLE C-O-C AND			BOTTLE ORDER			WORKSHEET		

REMARKS:
SHEEN: NO SW-B = SURFACE WATER POINT

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-4	SAMPLE ID:		DATE 3220

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: - feet to - feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA		TOTAL VOLUME PURGED (gallons): NA

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)	ORP (mV)	COLOR	ODOR
0742	NA	NA	NA	NA	7.61	15.0	167	6.8	57.41	220	LT BROWN	

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: DAN ARMOUR BLAINE GRISSOM / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0742		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)			DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
(SW)	SEE SAMPLE L-D-4 AND			BOTTLE ORDER			WORKSHEET		

REMARKS: SHEEN: N/O SW-4 = SURFACE WATER POINT FLOW AT WIER

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE		SITE LOCATION: JACKSONVILLE, FL	
WELL NO: SW-3	SAMPLE ID:		DATE: 3-2-22

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet): NA		PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

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): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	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)	ORP (mV)	COLOR	OD
0830	NA	NA	NA	NA	7.48	15.5	459	4.2	29.27	252	LT BROWN	

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.
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.

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 0830	SAMPLING ENDED AT: NI
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y N NA TUBING Y N (replaced)			DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:
SW-3 = SURFACE WATER POINT SHEEN: No

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	TRAIL RIDGE		SITE LOCATION:	JACKSONVILLE FL	
WELL NO:	SW-1	SAMPLE ID:		DATE:	3-2-20

PURGING DATA

WELL DIAMETER (inches):	NA	TUBING DIAMETER (inches):	NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):	NA	PURGE PUMP TYPE OR BAILER:	NA

WELL ELEVATION TOC (ft NGVD): NA GROUNDWATER ELEVATION (ft NGVD): NA

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):	NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	NA	PURGING INITIATED AT:	NA	PURGING ENDED AT:	NA	TOTAL VOLUME PURGED (gallons):	NA

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)	ORP (mV)	COLOR	ODOR
0901	NA	NA	NA	NA	6.99	12.9	158	6.2	8.35	221	YELLOW	
											TAN	
											TINT	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 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:	DAN ARMOUR BEN BAMFORD / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0901		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	NA	TUBING MATERIAL CODE:	NA			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION:	PUMP Y N NA	TUBING Y N (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
*	SEE	SAMPLE		E-O-C	AND	BOTTLE	ORDER	WORKSHEET	

REMARKS:
SHEEN: ND SW-1 = SURFACE WATER POINT

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

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL 32216
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

April 13, 2020

Eric B. Fuller
City of Jacksonville
214 North Hogan Street
10th Floor
Jacksonville, FL 32202

RE: Workorder: J2004644 Trail Ridge Landfill

Dear Eric Fuller:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, April 03, 2020. 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,

Jerry Allen - Project Manager
JAllen@aellab.com

Enclosures

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Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J2004644 Trail Ridge Landfill

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J2004644001	MW-39S	Water	4/2/2020 08:06	4/3/2020 08:00

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ANALYTICAL RESULTS

Workorder: J2004644 Trail Ridge Landfill

Lab ID: **J2004644001** Date Received: 04/03/20 08:00 Matrix: Water

Sample ID: **MW-39S** Date Collected: 04/02/20 08:06

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: RSK-175 Analysis, Water	Analytical Method: RSK-175							
Methane	**2330**		**ug/L**	**40**	40	28	4/10/2020 14:51	J
Analysis Desc: 8260B VOCs Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	4/4/2020 20:56	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		4/4/2020 20:56	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		4/4/2020 20:56	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		4/4/2020 20:56	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J2004644 Trail Ridge Landfill

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.

LAB QUALIFIERS

J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J2004644 Trail Ridge Landfill

QC Batch: MSVj/1541 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 04/04/2020 14:11
Associated Lab Samples: J2004644001

METHOD BLANK: 3438843

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Vinyl Chloride	ug/L	0.20	0.20	U
1,2-Dichloroethane-d4 (S)	%	96	70-128	
Toluene-d8 (S)	%	96	77-119	
Bromofluorobenzene (S)	%	107	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3438844 3438845

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Vinyl Chloride	ug/L	20	22	21	110	105	70-130	4	20	
1,2-Dichloroethane-d4 (S)	%				101	104	70-128	3		
Toluene-d8 (S)	%				98	97	77-119	1		
Bromofluorobenzene (S)	%				102	103	86-123	1		

MATRIX SPIKE SAMPLE: 3438846 Original: J2004649001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Vinyl Chloride	ug/L	0	20	18	89	70-130	
1,2-Dichloroethane-d4 (S)	%	100			99	70-128	
Toluene-d8 (S)	%	95			97	77-119	
Bromofluorobenzene (S)	%	108			102	86-123	

QC Batch: GCVj/1050 Analysis Method: RSK-175
QC Batch Method: RSK-175 Prepared:
Associated Lab Samples: J2004644001

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QUALITY CONTROL DATA

Workorder: J2004644 Trail Ridge Landfill

METHOD BLANK: 3445031

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methane	ug/L	0.70	0.70	U

LABORATORY CONTROL SAMPLE & LCSD: 3445032 3445033

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Methane	ug/L	17.9	18.2	18.3	101	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3445034 3445035 Original: T2006342001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methane	ug/L	437	1790	1960	1980	85	86	80-120	1	25	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2004644 Trail Ridge Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2004644001	MW-39S	SW-846 5030B	MSVj/1541	SW-846 8260B	MSVj/1542
J2004644001	MW-39S			RSK-175	GCVj/1050

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Advanced Environmental Laboratories, Inc.

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☐ 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327 • E84589
☐ 8615 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639 • E82001
☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E83076

* J 2 0 0 4 6 4 4 *

CLIENT NAME:	CITY OF JACKSONVILLE	PROJECT NAME:	Trail Ridge Landfill
ADDRESS:	214 North Hogan Street, 10th Floor	P.O. NUMBER/PROJECT NUMBER:	608372:4
	Jacksonville, FL 32202	PROJECT LOCATION:	
PHONE:	(904)-255-7513	REMARKS/SPECIAL INSTRUCTIONS:	Ground Water Shallow Wells
FAX:			CEC Contact: Jim Chrisiansen
CONTACT:	Eric B. Fuller		
SAMPLED BY:			33628,TRAIL RIDGE LANDFILL, INC. (ADaPT)
TURN AROUND TIME:	☐ STANDARD _____ ☐ RUSH _____		AEL Jax Profile: 30178, Line 4

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 3X40mL VOA vials — ANALYSIS REQUIRED: Vinyl Chloride by 8260	PRESERVATION: HCl	BOTTLE SIZE & TYPE: 2X40mL VOA vials — ANALYSIS REQUIRED: Methane by RSK-175	PRESERVATION: HCl	LABORATORY I.D. NUMBER
MW-39S	MW-39S	G	4-2	0806	GW	5		X		X		07

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 = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice: ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from temp blank ☐ Where required, pH checked

Temperature when received 4 (in degrees celcius)

Form revised 2/8/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4-2-20	1100		4/2/2020	1500
2		4/3/2020	800		4-3-2020	8:00
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____

Monday, April 13, 2020 3:55:38 PM

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: TRAIL RIDGE | SITE LOCATION: JACKSONVILLE, FL

WELL NO: MWB-39S | SAMPLE ID: | DATE: 4-2-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 8.9 feet to 18.9 feet | STATIC DEPTH TO WATER (feet): 14.96 | PURGE PUMP TYPE OR BAILER: PP

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (18.90 feet - 14.96 feet) X 0.163 gallons/foot = 0.64 gallons

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

= 0.0 gallons + (0.0026 gallons/foot X 18.90 feet) + 0.05 gallons = 0.10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | PURGING INITIATED AT: 0746 | PURGING ENDED AT: 0806 | TOTAL VOLUME PURGED (gallons): 2.20

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)	ORP (mV)	COLOR	ODOR
0756	1.10	1.10	0.11	15.28	5.43	20.8	376					
0759	0.33	1.43	0.11	15.28	5.41	20.9	373	0.6	6.66	128		
0802	0.33	1.76	0.11	15.28	5.46	20.9	377	0.6	6.70	125		
0805	0.33	2.09	0.11	15.28	5.47	20.8	379	0.5	5.99	122		
								0.5	6.12	119	YELLOW TINT	

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: SANNY ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0806 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 18.00 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) | FILTER SIZE: µm

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | Filtration Equipment Type: | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
(D)	SEE SAMPLE L-O-C AND BOTTLE ORDER WORKSHEET								

REMARKS:

Sheen Present YES (NO)

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

Advanced Environmental Labs Inc

Client: City of Jacksonville Project name: Trail Ridge Landfill

Date/Time Rcvd: 4-3-2020 8:00 Log-In request number: J2004644

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

APPENDIX B

COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE