

Smith, George

From: Townsel, Michael <TownselM@HillsboroughCounty.ORG>
Sent: Wednesday, January 27, 2021 8:54 AM
To: Morgan, Steve
Cc: Chamberlain, Justin; SWD_Waste; Wiesman, Ronald; Aguilar, Tiffany; Watson, Edward
Subject: Southeast County Landfill LTP, WACS ID 19864 - Quarterly Effluent Report
Attachments: 2020 - 4th Qtr SELF Plant Effluent Report.pdf

Dear Mr. Morgan,

Please find attached the quarterly effluent results for the Southeast County Landfill Leachate Treatment Plant. If you or anyone have any questions, please let me know.

Best Regards,

Michael D. Townsel

Senior Hydrogeologist

Public Utilities Department – Environmental Services

P: (813) 663-3222

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W: HCFLGov.net

Hillsborough County

332 N. Falkenburg Road, Tampa, FL 33619

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**Hillsborough
County** Florida

PUBLIC UTILITIES
PO Box 1110
Tampa, FL 33601-1110

**Southeast County Landfill
Leachate Treatment Plant
WACS Testsite #19864
Lithia, Florida**

Quarterly Effluent Report Fourth Quarter 2020

**Hillsborough County
Public Utilities Department
Environmental Services Division
332 North Falkenburg Road
Tampa, Florida 33619**

Michael D. Townsel

**Michael D. Townsel
Hydrologist
Environmental Services Division
Public Utilities Department**

In accordance with Part 9.1.2 of the November 2015 Southeast County Landfill (SCLF) Leachate Management Plan (LMP), the Hillsborough County Public Utilities Department (County), has prepared the quarterly effluent report for the SCLF leachate treatment plant (LTP), located at 15960 County Road 672 in Lithia, Florida.

Monthly sampling of the effluent and the daily recording of the plant pH values were conducted as required by the referenced LMP. County personnel collected the effluent samples from the designated sampling port on October 7 and November 4, 2020 for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Nitrate, and field parameters. On December 10, 2020, the County collected the required semi-annual sample at the LTP for primary and secondary drinking water standards and priority pollutant metals. Each of the effluent samples were analyzed by our contract laboratory, Advanced Environmental Laboratories, Inc. In addition, daily pH for the effluent was recorded from 7.47 to 8.41 pH units by plant personnel and the field logs are depicted as part of the submittal. No unusual changes were detected and the results are consistent with the historical data set.

Month	PH Calibration Log					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.01	10.00	7.77	8.26	8.50
2	4.00	7.00	10.00	7.55	8.41	8.46
3						
4						
5		7.00				
6				7.80	7.80	8.40
7				7.80	8.40	8.40
8				7.80	8.40	8.40
9				7.80	8.40	8.40
10						
11						
12	4.00	7.00	10.00	7.42	8.01	8.40
13	4.00	7.00	10.00	7.39	7.94	8.40
14	4.00	7.00	10.00	7.40	7.93	8.04
15	4.00	7.00	10.00	7.62	7.87	8.40
16	4.00	7.00	10.00	7.66	7.83	7.80
17						
18						
19	4.00	7.00	10.00	7.54	7.84	7.94
20	4.00	7.00	10.00	7.61	7.64	7.91
21	4.00	7.00	10.00	7.63	7.71	7.80
22	4.00	7.00	10.00	7.41	7.77	7.95
23	4.01	7.00	10.01	7.44	7.81	
24						
25						
26	4.00	7.00	10.00	7.31	7.62	
27	4.00	7.00	10.00	7.27	7.91	8.20
28	4.00	7.00	10.00	7.26	7.84	8.16
29	4.00	7.00	10.00	7.11	7.62	7.79
30	4.00	7.00	10.00	7.04	7.57	7.80
31						

Month	PH Calibration Log					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1						
2	4.00	7.00	10.00	7.35	7.47	7.74
3	4.00	7.00	10.00	7.27	7.66	7.87
4	4.00	7.00	10.00	7.29	7.89	8.40
5	4.00	7.00	10.00	7.77	7.98	8.00
6	4.00	7.00	10.00	7.29	7.98	8.04
7						
8						
9	4.00	7.00	10.00	7.76	7.82	
10	4.00	7.00	10.00	7.22	7.71	
11	4.00	7.00	10.00	7.38	7.79	8.12
12						
13	4.00	7.00	10.00	7.58	7.99	
14	4.00	7.00	10.00	7.89		7.89
15						
16	4.00	7.00	10.00	7.45	7.66	7.93
17	4.00	7.00	10.00	7.31	7.72	8.10
18	4.00	7.00	10.00	7.42	7.72	7.80
19	4.00	7.00	10.00	7.28	7.61	7.74
20	4.00	7.00	10.00	7.28	7.78	7.80
21	4.00	7.00	10.00	7.88		
22						
23	4.00	7.00	10.00	7.51	7.58	7.67
24	4.00	7.00	10.00	7.62	7.63	7.80
25	4.00	7.00	10.00	7.41	7.53	7.80
26						
27	4.00	7.00	10.00	7.59	7.61	7.83
28	4.00	7.00	10.00	7.72	7.54	7.80
29						
30	4.00	7.00	10.00	7.58	7.86	7.98
31						

Month	December 20		PH Calibration Log			
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.48	7.61	7.80
2	4.00	7.00	10.00	7.49	7.78	7.80
3	4.00	7.00	10.00	7.45	7.74	7.85
4	4.00	7.00	10.00	7.62	7.77	7.85
5						
6						
7	4.00	7.00	10.00	7.53	7.65	7.54
8	4.00	7.00	10.00	7.58	7.90	7.78
9	4.00	7.00	10.00	7.55	7.87	7.75
10	4.00	7.00	10.00	7.58	7.79	7.80
11	4.00	7.00	10.00	7.00	7.53	7.80
12						7.78
13						
14	4.01	7.00	10.01	7.67	7.84	7.83
15	4.00	7.00	10.00	7.83	7.91	8.26
16	4.06	7.00	10.00	7.92	8.09	8.08
17	4.00	7.00	10.00	8.04	8.05	8.09
18	4.00	7.00	10.00	7.83	7.81	8.10
19						8.01
20						
21	4.00	7.00	10.00	7.76	7.63	7.64
22	4.00	7.00	10.00	7.64	7.72	7.64
23	4.00	7.00	10.00	7.62	7.62	7.62
24	4.00	7.00	10.00	7.66	7.64	7.89
25						
26						
27						
28	4.00	7.00	10.00	7.63	7.48	7.27
29	4.00	7.00	10.00	7.62	7.52	7.20
30	4.00	7.00	10.00	7.62	7.70	7.49
31	4.00	7.00	10.00	7.62	8.02	7.86

November 24, 2020

Michael Townsel
Hillsborough Co Public Utilities
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2019523 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory between Tuesday, October 20, 2020 and Wednesday, November 04, 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,



Heidi Parker - Project Manager
HParker@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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SAMPLE SUMMARY

Workorder: T2019523 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2019523001	Leachate Effluent	Water	10/20/2020 11:42	10/20/2020 12:45
T2019523002	Field Blank	Water	10/20/2020 11:37	10/20/2020 12:45

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ANALYTICAL RESULTS

Workorder: T2019523 SELF Plant Effluent

Lab ID: **T2019523001**
Sample ID: **Leachate Effluent**

Date Received: 10/20/20 12:45 Matrix: Water
Date Collected: 10/20/20 11:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	17826		umhos/cm	1			10/20/2020 11:42	....
Dissolved Oxygen	0.79		mg/L	1			10/20/2020 11:42	....
ORP-2580BW	-135.9		mV	1			10/20/2020 11:42	....
Temperature	31.1		°C	1			10/20/2020 11:42	....
pH	7.55		SU	1			10/20/2020 11:42	....

WET CHEMISTRY

Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	10/21/2020 16:58	T

Lab ID: **T2019523002**
Sample ID: **Field Blank**

Date Received: 10/20/20 12:45 Matrix: Water
Date Collected: 10/20/20 11:37

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	10/21/2020 14:26	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T2019523 SELF Plant Effluent

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

- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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QUALITY CONTROL DATA

Workorder: T2019523 SELF Plant Effluent

QC Batch: WCAI/7164 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T2019523001, T2019523002

METHOD BLANK: 3659968

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate (as N)	mg/L	0.092	0.092 U

LABORATORY CONTROL SAMPLE: 3659969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Nitrate (as N)	mg/L	1	1.0	101	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659970 3659971 Original: T2019670001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Nitrate (as N)	mg/L	0.79	1	1.7	1.7	94	91	90-110	2	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2019523 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2019523001	Leachate Effluent			SM 4500NO3-F	WCAt/7164
T2019523002	Field Blank			SM 4500NO3-F	WCAt/7164
T2019523001	Leachate Effluent	Field Measurements	FLDt/	Field Measurements	FLDt/

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☐ Altamonte Springs: 300 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: ES3076

☐ **Fort Myers:** 13100 Wiedlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492

Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2369 • Lab ID: E82001

VOLUME

☐ **Micamar:** 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535

☐ **Jacksonville:** 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E02374

☐ RECEIVED

[illegible]

Form FD 9000-24

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent		SAMPLE ID: Leachate Effluent	
		DATE: 10/20/2020	

PURGING DATA

WELL DIAMETER (inches):	N/A	TUBING DIAMETER (inches):	N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet):	N/A	PURGE PUMP TYPE OR BAILER:	Valve
----------------------------	-----	------------------------------	-----	---	----------------------------------	-----	-------------------------------	-------

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

$$= (\quad \text{N/A} \quad \text{feet} - \quad \text{N/A} \quad \text{feet}) \times \quad \text{N/A} \quad \text{gallons/foot} = \quad \text{N/A} \quad \text{gallons}$$

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

$$= \text{N/A gallons} + (\text{N/A gallons/foot} \times \text{N/A feet}) + \text{N/A gallons} = \text{N/A gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A
---	---	------------------------------	--------------------------	---------------------------------------

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

1142	N/A	N/A	N/A	N/A	7.55	31.1	17826	0.79	N/A	Effluent	Effluent
------	-----	-----	-----	-----	------	------	-------	------	-----	----------	----------

10/20/2020

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: Gonzalez Morales	SAMPLER(S), SIGNATURE(S) [Signature]	SAMPLING INITIATED AT: 1142	SAMPLING ENDED AT: 1142
---	---	-----------------------------	-------------------------

PUMP OR TUBING	TUBING	FIELD-FILTERED: Y ☒ N	FILTER SIZE: _____ μ m
DEPTH IN WELL (feet) N/A	MATERIAL CODE: N/A	Filtration Equipment Type:	

DEPTH IN WELL (feet):		N/A		MATERIAL CODE:		N/A	
FIELD DECONTAMINATION:		PUMP	Y	N	TUBING	Y	N (replaced)
						DUPLICATE:	Y
							N

[illegible]

REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS ORP: 1142 (-35.9)

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

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

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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 10/20/2020	

PURGING DATA

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
90 10/20/2020 Field Blank											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 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: Grayson Morales		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING INITIATED AT: 1137	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): N/A		TUBING MATERIAL CODE: N/A		FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y ☒ N ☐		TUBING Y ☒ N (replaced) ☐		DUPLICATE: Y ☐ N ☒	

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

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS**

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; RFP = 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)

November 25, 2020

Michael Townsel
Hillsborough Co Public Utilities
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2020587 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 04, 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,



Heidi Parker - Project Manager
HParker@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: T2020587 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2020587001	Leachate Effluent	Water	11/4/2020 11:42	11/4/2020 13:00
T2020587002	Field Blank	Water	11/4/2020 11:26	11/4/2020 13:00

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ANALYTICAL RESULTS

Workorder: T2020587 SELF Plant Effluent

Lab ID: **T2020587001**
Sample ID: **Leachate Effluent**

Date Received: 11/04/20 13:00 Matrix: Water
Date Collected: 11/04/20 11:42

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	17832		umhos/cm	1			11/4/2020 11:42	
Dissolved Oxygen	1.65		mg/L	1			11/4/2020 11:42	
ORP-2580BW	-10.3		mV	1			11/4/2020 11:42	
Temperature	28.1		°C	1			11/4/2020 11:42	
pH	7.74		SU	1			11/4/2020 11:42	
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water			Analytical Method: EPA 410.4					
Chemical Oxygen Demand	1200		mg/L	1	50	20	11/9/2020 13:30	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	10000		mg/L	1	10	10	11/5/2020 10:35	T
Analysis Desc: TSS,SM2540D,Water			Analytical Method: SM 2540D					
Total Suspended Solids	58		mg/L	3.3	3.3	3.3	11/9/2020 16:00	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	11/4/2020 13:12	T
Analysis Desc: BOD,SM5210B,Water			Analytical Method: SM 5210B					
Biochemical Oxygen Demand	380		mg/L	1	2.0	2.0	11/5/2020 18:12	T

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ANALYTICAL RESULTS

Workorder: T2020587 SELF Plant Effluent

Lab ID: **T2020587002**

Date Received: 11/04/20 13:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 11/04/20 11:26

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water			Analytical Method: EPA 410.4					
Chemical Oxygen Demand	20	U	mg/L	1	50	20	11/9/2020 13:30	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	10	U	mg/L	1	10	10	11/5/2020 10:35	T
Analysis Desc: TSS,SM2540D,Water			Analytical Method: SM 2540D					
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	11/9/2020 16:00	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	11/4/2020 13:18	T
Analysis Desc: BOD,SM5210B,Water			Analytical Method: SM 5210B					
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	11/5/2020 18:18	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T2020587 SELF Plant Effluent

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

- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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QUALITY CONTROL DATA

Workorder: T2020587 SELF Plant Effluent

QC Batch: WCAI/7416 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: T2020587001, T2020587002

METHOD BLANK: 3673815

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

LABORATORY CONTROL SAMPLE: 3673816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	750	114	85-115

SAMPLE DUPLICATE: 3673856 Original: T2020587001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	10000	9500	8	10
QC Batch:	WCAI/7428		Analysis Method:	SM 4500NO3-F	
QC Batch Method:	SM 4500NO3-F		Prepared:		
Associated Lab Samples: T2020587001, T2020587002					

METHOD BLANK: 3674318

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate (as N)	mg/L	0.092	0.092 U

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QUALITY CONTROL DATA

Workorder: T2020587 SELF Plant Effluent

LABORATORY CONTROL SAMPLE & LCSD: 3674319 3674320

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	1	1.1	1.0	107	100	90-110	7	10	

QC Batch: WCAI/7436

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Prepared:

Associated Lab Samples: T2020587001, T2020587002

METHOD BLANK: 3674943

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

LABORATORY CONTROL SAMPLE: 3674944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Biochemical Oxygen Demand	mg/L	200	170	87	84.6-115.4	

SAMPLE DUPLICATE: 3674945

Original: T2020509002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY Biochemical Oxygen Demand	mg/L	34	34	0	20	

QC Batch: WCAI/7474

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Prepared:

Associated Lab Samples: T2020587001, T2020587002

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QUALITY CONTROL DATA

Workorder: T2020587 SELF Plant Effluent

METHOD BLANK: 3677505

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

LABORATORY CONTROL SAMPLE: 3677506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	200	210	105	85-115

SAMPLE DUPLICATE: 3677507

Original: T2020449002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L		980	2	10
QC Batch:	WCAI/7477		Analysis Method:	EPA 410.4	
QC Batch Method:	EPA 410.4		Prepared:		
Associated Lab Samples: T2020587001, T2020587002					

METHOD BLANK: 3677704

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Chemical Oxygen Demand	mg/L	20	20 U

LABORATORY CONTROL SAMPLE: 3677705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Chemical Oxygen Demand	mg/L	500	500	100	90-110

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QUALITY CONTROL DATA

Workorder: T2020587 SELF Plant Effluent

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677707 3677708 Original: S2002851003

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	480	500	1000	1000	110	110	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677711 3677712 Original: T2020624001

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	570	500	1100	1100	107	107	90-110	0	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2020587 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2020587001	Leachate Effluent			SM 2540 C	WCAI/7416
T2020587002	Field Blank			SM 2540 C	WCAI/7416
T2020587001	Leachate Effluent			SM 4500NO3-F	WCAI/7428
T2020587002	Field Blank			SM 4500NO3-F	WCAI/7428
T2020587001	Leachate Effluent			SM 5210B	WCAI/7436
T2020587002	Field Blank			SM 5210B	WCAI/7436
T2020587001	Leachate Effluent			SM 2540D	WCAI/7474
T2020587002	Field Blank			SM 2540D	WCAI/7474
T2020587001	Leachate Effluent			EPA 410.4	WCAI/7477
T2020587002	Field Blank			EPA 410.4	WCAI/7477
T2020587001	Leachate Effluent	Field Measurements	FLDI/	Field Measurements	FLDI/

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- ☐ Altamonte Springs: 380 Northla
☐ Fort Myers: 13100 Westlins Terrac
☐ Jacksonville: 6661 Southpoint Plw
☐ Tallahassee: 2639 North Monroe S



* T 2 0 2 0 5 8 7 *

Copy

- ☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82335
☒ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.830.9816 • Lab ID: E84589

Client Name: Hills. Co. Public Utilities

Project Name:

SELF Plant Effluent

Address: 332 North Falkenburg Rd

Project Number:

N/A

Tampa, FL 33619

PO Number:

N/A

Phone: (813) 663-3222

FDEP Facility No:

FAX: (813) 274-6801

FDEP Facility Addr: 15960 CR 672

Contact: Michael Townsel

Sampled By: Grayson, Moakes

Special Instructions:

Turn Around Time: Standard Rush

AEI Profile #:

ADAPT

EQUIS

Other

SAMPLE ID

SAMPLE DESCRIPTION

Grab Comp

SAMPLING DATE TIME

MATRIX

NO. COUNT

Preservation Field-Filtered?

COD

BOD

TDS

TSS

Nitrate

LABORATORY I.D. NUMBER

Leachate Effluent

G

11/01/20 1142

WW

5

Field Blank

-

11/01/20 1126

DI

5

001-2023
002-2023
003-2023

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

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☒ Where required, pH checked

DCN: AD-D051web Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

Relinquished by: Date Time Received by: Date Time

FOR DRINKING WATER USE:

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

Contact Person: _____

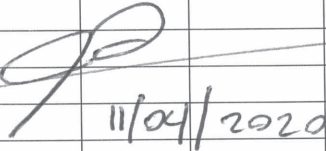
Supplier of Water: _____

Site Address: _____

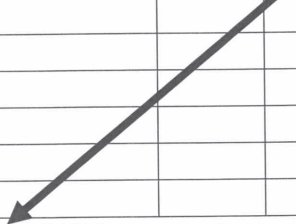
Form FD 9000-24

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent		SAMPLE ID: Leachate Effluent	
		DATE: 11/04/2020	

PURGING DATA

WELL DIAMETER (inches): N/A		TUBING DIAMETER (inches): N/A		WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft		STATIC DEPTH TO WATER (feet): N/A		PURGE PUMP TYPE OR BAILER: Valve			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (\text{N/A} \text{ feet} - \text{N/A} \text{ feet}) \times \text{N/A} \text{ gallons/foot} = \text{N/A} \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{N/A} \text{ gallons} + (\text{N/A} \text{ gallons/foot} \times \text{N/A} \text{ feet}) + \text{N/A} \text{ gallons} = \text{N/A} \text{ gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A			FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A			PURGING INITIATED AT: N/A		PURGING ENDED AT: N/A		TOTAL VOLUME PURGED (gallons): N/A	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1142	N/A	N/A	N/A	N/A	7.74	28.1	17832	1.65	N/A	Effluent	Effluent
											
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: Grayson, Morales	SAMPLER(S) SIGNATURE(S): <i>M. Morales</i>						SAMPLING INITIATED AT: 1142	SAMPLING ENDED AT: 1146			
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:									
FIELD DECONTAMINATION: PUMP Y <u>N</u> TUBING Y <u>N (replaced)</u>								DUPLICATE: Y <u>N</u>			
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	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS ORP: 1142 (-10.3)											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

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

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

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

Form FD 9000-24

SITE

NAME: Southeast County Landfill - Plant

SITE

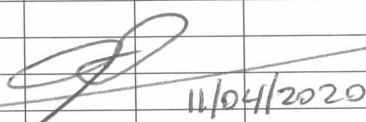
LOCATION: Lithia, Florida

WELL NO: Field Blank

SAMPLE ID: Field Blank

DATE: 11/04/2020

PURGING DATA

WELL		TUBING		WELL SCREEN INTERVAL		STATIC DEPTH		PURGE PUMP TYPE			
DIAMETER (inches): N/A		DIAMETER (inches): N/A		DEPTH: N/A ft to N/A ft		TO WATER (feet): N/A		OR BAILER: N/A			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons											
INITIAL PUMP OR TUBING			FINAL PUMP OR TUBING			PURGING		PURGING		TOTAL VOLUME	
DEPTH IN WELL (feet): N/A			DEPTH IN WELL (feet): N/A			INITIATED AT: N/A		ENDED AT: N/A		PURGED (gallons): N/A	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>μmhos/cm</u> or μS/cm	DISSOLVED OXYGEN (circle units) <u>mg/L</u> or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
 Field BLANK											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Grayson, Morales				SAMPLER(S) SIGNATURE(S): M. Morales			SAMPLING INITIATED AT: 1126		SAMPLING ENDED AT: 1128	
PUMP OR TUBING DEPTH IN WELL (feet): N/A				TUBING MATERIAL CODE: N/A			FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <u>N</u>				TUBING Y <u>N (replaced)</u>			DUPLICATE: Y <u>N</u>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS

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

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

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

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

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



Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

January 12, 2021

Michael Townsel
Hillsborough Co Public Utilities
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T2022868 SELF Plant Effluent Semi

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, December 10, 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,

Heidi Parker - Project Manager
HParker@AELLab.com

Enclosures

Report ID: 1014660

Page 1 of 65

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SAMPLE SUMMARY

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2022868001	Leachate Effluent-Semi Annual	Water	12/10/2020 10:30	12/10/2020 14:00
T2022868002	Field Blank	Water	12/10/2020 10:00	12/10/2020 14:00
T2022868003	Travel Blank	Water	12/10/2020 00:00	12/10/2020 14:00

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Leachate Effluent-Semi Annual**

Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	15018		umhos/cm	1			12/10/2020 10:30	....
Dissolved Oxygen	3.2		mg/L	1			12/10/2020 10:30	....
ORP-2580BW	84.2		mV	1			12/10/2020 10:30	....
Temperature	22.4		°C	1			12/10/2020 10:30	....
pH	7.65		SU	1			12/10/2020 10:30	....

METALS

Analysis Desc: E200.7 Analysis,Waters			Preparation Method: EPA 200.7					
Analytical Method: EPA 200.7								
Aluminum	0.20	U	mg/L	1	0.80	0.20	12/16/2020 11:25	T
Barium	0.12		mg/L	1	0.012	0.0030	12/14/2020 14:58	T
Beryllium	0.0020	U	mg/L	1	0.0080	0.0020	12/14/2020 14:58	T
Chromium	0.0076	I	mg/L	1	0.020	0.0050	12/14/2020 14:58	T
Iron	4.1		mg/L	1	0.80	0.20	12/14/2020 14:58	T
Nickel	0.024	I	mg/L	1	0.040	0.010	12/14/2020 14:58	T
Sodium	1200		mg/L	1	3.2	0.80	12/16/2020 11:25	T
Zinc	0.087	I	mg/L	1	0.20	0.050	12/14/2020 14:58	T

Analysis Desc: E200.8 Analysis,Waters			Preparation Method: EPA 200.8					
Analytical Method: EPA 200.8								
Antimony	0.0013	I	mg/L	1	0.0040	0.0010	12/19/2020 00:37	J
Arsenic	0.0045	I	mg/L	10	0.010	0.0025	12/22/2020 14:21	J
Cadmium	0.00025	U	mg/L	1	0.0010	0.00025	12/19/2020 00:37	J
Copper	0.033		mg/L	1	0.0040	0.0010	12/19/2020 00:37	J
Lead	0.00053	I	mg/L	1	0.0020	0.00050	12/19/2020 00:37	J
Manganese	0.49		mg/L	1	0.0040	0.0010	12/19/2020 00:37	J
Selenium	0.0012	U	mg/L	1	0.0050	0.0012	12/19/2020 00:37	J
Silver	0.00050	U	mg/L	1	0.0020	0.00050	12/19/2020 00:37	J
Thallium	0.00025	U	mg/L	1	0.0010	0.00025	12/19/2020 00:37	J
Uranium	9.0		ug/L	1	0.80	0.20	12/19/2020 00:37	J

Analysis Desc: EPA 245.1 Analysis,Water			Preparation Method: EPA 245.1						
			Analytical Method: EPA 245.1						
Mercury	0.000028	U	mg/L	1	0.00010	0.000028	12/15/2020 11:09	T	

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Leachate Effluent-Semi Annual**

Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E504.1 Analysis, Water		Preparation Method: EPA 504.1						
		Analytical Method: EPA 504.1						
1,2-Dibromo-3-Chloropropane	0.017	U	ug/L	1	0.019	0.017	12/16/2020 23:53	T
Ethylene Dibromide (EDB)	0.011	U	ug/L	1	0.019	0.011	12/16/2020 23:53	T
Tetrachloro-m-xylene (S)	83		%	1	64-150		12/16/2020 23:53	
Analysis Desc: E508 Analysis, Water		Preparation Method: EPA 508						
		Analytical Method: EPA 508						
Chlordane (technical)	0.26	U	ug/L	5	1.0	0.26	12/16/2020 17:43	J
Endrin	0.034	U	ug/L	5	0.10	0.034	12/16/2020 17:43	J
Heptachlor	0.030	U	ug/L	5	0.10	0.030	12/16/2020 17:43	J
Heptachlor Epoxide	0.026	U	ug/L	5	0.10	0.026	12/16/2020 17:43	J
Hexachlorobenzene	0.032	U	ug/L	5	0.10	0.032	12/16/2020 17:43	J
Hexachlorocyclopentadiene	0.095	U	ug/L	5	0.10	0.095	12/16/2020 17:43	J
Methoxychlor	0.034	U	ug/L	5	0.10	0.034	12/16/2020 17:43	J
PCBs	0.47	U	ug/L	5	1.0	0.47	12/16/2020 17:43	J
Toxaphene	0.60	U	ug/L	5	1.0	0.60	12/16/2020 17:43	J
gamma-BHC (Lindane)	0.036	U	ug/L	5	0.10	0.036	12/16/2020 17:43	J
Decachlorobiphenyl (S)	0	2	%	5	70-130		12/16/2020 17:43	
Analysis Desc: E515.3 Analysis, Water		Preparation Method: EPA 515.3						
		Analytical Method: EPA 515.3						
2,4-D	0.095	U	ug/L	1	5.0	0.095	12/17/2020 10:16	J
Dalapon	0.90	U	ug/L	1	5.0	0.90	12/17/2020 10:16	J
Dinoseb	0.18	U	ug/L	1	2.5	0.18	12/17/2020 10:16	J
Pentachlorophenol	0.038	U	ug/L	1	0.50	0.038	12/17/2020 10:16	J
Picloram	0.090	U	ug/L	1	0.50	0.090	12/17/2020 10:16	J
Silvex (2,4,5-TP)	0.090	U	ug/L	1	1.0	0.090	12/17/2020 10:16	J
2,4-Dichlorophenylacetic acid (S)	119		%	1	70-130		12/17/2020 10:16	
Analysis Desc: E525.2 Analysis, Water		Preparation Method: EPA 525.2						
		Analytical Method: EPA 525.2						
Alachlor	1.5	U	ug/L	1	5.0	1.5	12/16/2020 22:50	J
Atrazine	0.90	U	ug/L	1	5.0	0.90	12/16/2020 22:50	J
Benzo[a]pyrene	0.15	U	ug/L	1	5.0	0.15	12/16/2020 22:50	J
Di(2-ethylhexyl) adipate	5.0	U	ug/L	1	10	5.0	12/16/2020 22:50	J
Simazine	0.60	U	ug/L	1	5.0	0.60	12/16/2020 22:50	J
bis(2-Ethylhexyl) phthalate	5.0	U	ug/L	1	20	5.0	12/16/2020 22:50	J

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Leachate Effluent-Semi Annual**

Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	117		%	1	70-130		12/16/2020 22:50	
Analysis Desc: E531.1 Analysis, Water		Analytical Method: EPA 531.1						
Carbofuran	0.51	U	ug/L	1	2.5	0.51	12/17/2020 09:07	J
Oxamyl	1.8	U	ug/L	1	2.5	1.8	12/17/2020 09:07	J
Analysis Desc: E547 Analysis, Water		Analytical Method: EPA 547						
Glyphosate	5.9	U	ug/L	1	50	5.9	12/15/2020 00:43	J
Analysis Desc: E548.1 Analysis, Water		Preparation Method: EPA 548.1						
		Analytical Method: EPA 548.1						
Endothall	6.0	U	ug/L	1	8.0	6.0	12/14/2020 15:23	J
Analysis Desc: E549.2 Analysis, Water		Preparation Method: EPA 549.2						
		Analytical Method: EPA 549.2						
Diquat	12	U	ug/L	1	170	12	12/11/2020 18:47	J
Analysis Desc: 552.2 Analysis, Water, HAA		Preparation Method: EPA 552.2						
		Analytical Method: EPA 552.2						
Bromoacetic Acid	0.41	U	ug/L	1	1.0	0.41	12/19/2020 05:53	T
Chloroacetic Acid	0.98	U	ug/L	1	1.0	0.98	12/19/2020 05:53	T
Dibromoacetic Acid	0.74	U	ug/L	1	1.0	0.74	12/19/2020 05:53	T
Dichloroacetic Acid	8.15		ug/L	1	1.0	0.42	12/19/2020 05:53	T
Total Haloacetic Acids (HAA5)	8.15		ug/L	1	1.0	0.98	12/19/2020 05:53	T
Trichloroacetic Acid	0.94	U	ug/L	1	1.0	0.94	12/19/2020 05:53	T
2,3-Dibromopropionic Acid (S)	92		%	1	70-130		12/19/2020 05:53	
Analysis Desc: 8081B Pesticide Analysis, Water		Preparation Method: SW-846 3510C						
		Analytical Method: EPA 8081						
4,4'-DDD	0.29	U,J4	ug/L	10	0.52	0.29	12/16/2020 03:39	T
4,4'-DDE	0.071	U	ug/L	10	0.52	0.071	12/16/2020 03:39	T
4,4'-DDT	0.16	U	ug/L	10	0.52	0.16	12/16/2020 03:39	T
Aldrin	0.15	U,J4	ug/L	10	0.52	0.15	12/16/2020 03:39	T
Dieldrin	0.30	U	ug/L	10	0.52	0.30	12/16/2020 03:39	T
Endosulfan I	0.065	U	ug/L	10	0.52	0.065	12/16/2020 03:39	T
Endosulfan II	0.066	U,J4	ug/L	10	0.52	0.066	12/16/2020 03:39	T
Endosulfan Sulfate	0.26	U	ug/L	10	0.52	0.26	12/16/2020 03:39	T
Endrin Aldehyde	0.19	U	ug/L	10	0.52	0.19	12/16/2020 03:39	T
alpha-BHC	0.038	U	ug/L	10	0.52	0.038	12/16/2020 03:39	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**
Sample ID: **Leachate Effluent-Semi Annual**

Date Received: 12/10/20 14:00 Matrix: Water
Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
beta-BHC	0.15	U	ug/L	10	0.52	0.15	12/16/2020 03:39	T
delta-BHC	0.13	U	ug/L	10	0.52	0.13	12/16/2020 03:39	T
Tetrachloro-m-xylene (S)	45		%	10	44-124		12/16/2020 03:39	
Decachlorobiphenyl (S)	49		%	10	48-137		12/16/2020 03:39	

Analysis Desc: 8082A PCB Analysis,
Water

Preparation Method: SW-846 3510C

Analytical Method: SW-846 8082A

Aroclor 1016 (PCB-1016)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1221 (PCB-1221)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1232 (PCB-1232)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1242 (PCB-1242)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1248 (PCB-1248)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1254 (PCB-1254)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Aroclor 1260 (PCB-1260)	1.4	U	ug/L	10	2.1	1.4	12/16/2020 03:39	T
Tetrachloro-m-xylene (S)	45	J4	%	10	61-119		12/16/2020 03:39	
Decachlorobiphenyl (S)	49		%	10	44-136		12/16/2020 03:39	

Analysis Desc: 8270C Analysis, Water

Preparation Method: SW-846 3510C

Analytical Method: SW-846 8270C

1,2-Diphenylhydrazine	1.6	U	ug/L	1	5.0	1.6	12/18/2020 21:47	T
2,4,6-Trichlorophenol	1.3	U,J4	ug/L	1	5.0	1.3	12/18/2020 21:47	T
2,4-Dichlorophenol	0.32	U,J4	ug/L	1	5.0	0.32	12/18/2020 21:47	T
2,4-Dimethylphenol	0.62	U	ug/L	1	5.0	0.62	12/18/2020 21:47	T
2,4-Dinitrophenol	2.3	U	ug/L	1	5.0	2.3	12/18/2020 21:47	T
2,4-Dinitrotoluene (2,4-DNT)	2.3	U	ug/L	1	5.0	2.3	12/18/2020 21:47	T
2,6-Dinitrotoluene (2,6-DNT)	2.2	U	ug/L	1	5.0	2.2	12/18/2020 21:47	T
2-Chloronaphthalene	4.0	U	ug/L	1	5.0	4.0	12/18/2020 21:47	T
2-Chlorophenol	1.6	U	ug/L	1	5.0	1.6	12/18/2020 21:47	T
2-Methyl-4,6-dinitrophenol	2.2	U	ug/L	1	5.0	2.2	12/18/2020 21:47	T
2-Nitrophenol	1.7	I	ug/L	1	5.0	1.2	12/18/2020 21:47	T
3,3'-Dichlorobenzidine	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
4-Bromophenyl Phenyl Ether	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
4-Chloro-3-methylphenol	0.84	U,J4	ug/L	1	5.0	0.84	12/18/2020 21:47	T
4-Chlorophenyl Phenyl Ether	0.79	U	ug/L	1	5.0	0.79	12/18/2020 21:47	T
4-Nitrophenol	0.83	U	ug/L	1	5.0	0.83	12/18/2020 21:47	T
Acenaphthene	0.0070	U,J4	ug/L	1	0.050	0.0070	12/18/2020 21:47	T
Acenaphthylene	0.0080	U	ug/L	1	0.050	0.0080	12/18/2020 21:47	T
Anthracene	0.15		ug/L	1	0.050	0.013	12/18/2020 21:47	T
Benzdine	2.1	U	ug/L	1	5.0	2.1	12/18/2020 21:47	T
Benzo[a]anthracene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 21:47	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**
Sample ID: **Leachate Effluent-Semi Annual**

Date Received: 12/10/20 14:00 Matrix: Water
Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzo[b]fluoranthene	0.011	U	ug/L	1	0.025	0.011	12/18/2020 21:47	T
Benzo[g,h,i]perylene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 21:47	T
Benzo[k]fluoranthene	0.0068	U	ug/L	1	0.050	0.0068	12/18/2020 21:47	T
Butyl benzyl phthalate	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
Chrysene	0.0078	U	ug/L	1	0.050	0.0078	12/18/2020 21:47	T
Di-n-Butyl Phthalate	2.4	I	ug/L	1	5.0	1.9	12/18/2020 21:47	T
Di-n-octyl Phthalate	2.0	U	ug/L	1	5.0	2.0	12/18/2020 21:47	T
Dibenzo[a,h]anthracene	0.013	U	ug/L	1	0.050	0.013	12/18/2020 21:47	T
Diethyl phthalate	1.3	U	ug/L	1	5.0	1.3	12/18/2020 21:47	T
Dimethyl phthalate	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
Fluoranthene	0.0094	U	ug/L	1	0.050	0.0094	12/18/2020 21:47	T
Fluorene	0.0096	U	ug/L	1	0.050	0.0096	12/18/2020 21:47	T
Hexachlorobutadiene	0.34	U	ug/L	1	5.0	0.34	12/18/2020 21:47	T
Hexachloroethane	1.8	U	ug/L	1	5.0	1.8	12/18/2020 21:47	T
Indeno(1,2,3-cd)pyrene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 21:47	T
Isophorone	0.70	U	ug/L	1	5.0	0.70	12/18/2020 21:47	T
N-Nitrosodi-n-propylamine	1.5	U	ug/L	1	5.0	1.5	12/18/2020 21:47	T
N-Nitrosodimethylamine	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
N-Nitrosodiphenylamine	0.95	U	ug/L	1	5.0	0.95	12/18/2020 21:47	T
Naphthalene	0.31		ug/L	1	0.050	0.014	12/18/2020 21:47	T
Nitrobenzene	1.1	U	ug/L	1	5.0	1.1	12/18/2020 21:47	T
Phenanthrene	0.0091	U	ug/L	1	0.050	0.0091	12/18/2020 21:47	T
Phenol	1.0	U,J4	ug/L	1	5.0	1.0	12/18/2020 21:47	T
Pyrene	0.071		ug/L	1	0.050	0.0093	12/18/2020 21:47	T
bis(2-Chloroethoxy)methane	1.0	U	ug/L	1	5.0	1.0	12/18/2020 21:47	T
bis(2-Chloroethyl)Ether	0.46	U	ug/L	1	5.0	0.46	12/18/2020 21:47	T
bis(2-Chloroisopropyl) Ether	0.38	U	ug/L	1	5.0	0.38	12/18/2020 21:47	T
bis(2-Ethylhexyl) phthalate	2.3	U	ug/L	1	5.0	2.3	12/18/2020 21:47	T
2-Fluorophenol (S)	11	J4	%	1	31-134		12/18/2020 21:47	
Phenol-d6 (S)	6	J4	%	1	24-120		12/18/2020 21:47	
Nitrobenzene-d5 (S)	32	J4	%	1	38-139		12/18/2020 21:47	
2-Fluorobiphenyl (S)	31	J4	%	1	42-138		12/18/2020 21:47	
2,4,6-Tribromophenol (S)	35	J4	%	1	48-147		12/18/2020 21:47	
p-Terphenyl-d14 (S)	36	J4	%	1	61-154		12/18/2020 21:47	

VOLATILES

Analysis Desc: 524.2 Analysis, Water

Analytical Method: EPA 524.2

1,1,1-Trichloroethane	0.29	U	ug/L	1	1.0	0.29	12/21/2020 19:42	T^
1,1,2-Trichloroethane	0.27	U	ug/L	1	1.0	0.27	12/21/2020 19:42	T^
1,1-Dichloroethylene	0.22	U	ug/L	1	1.0	0.22	12/21/2020 19:42	T^

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**
Sample ID: **Leachate Effluent-Semi Annual**

Date Received: 12/10/20 14:00 Matrix: Water
Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2,4-Trichlorobenzene	0.44	U	ug/L	1	1.0	0.44	12/21/2020 19:42	T
1,2-Dichlorobenzene	0.39	U	ug/L	1	1.0	0.39	12/21/2020 19:42	T
1,2-Dichloroethane	0.24	U	ug/L	1	1.0	0.24	12/21/2020 19:42	T
1,2-Dichloropropane	0.26	U	ug/L	1	1.0	0.26	12/21/2020 19:42	T
1,4-Dichlorobenzene	0.33	U	ug/L	1	1.0	0.33	12/21/2020 19:42	T
Benzene	1.8		ug/L	1	1.0	0.26	12/21/2020 19:42	T
Bromodichloromethane	0.42	U	ug/L	1	1.0	0.42	12/21/2020 19:42	T
Bromoform	0.45	U	ug/L	1	1.0	0.45	12/21/2020 19:42	T
Carbon Tetrachloride	0.25	U	ug/L	1	1.0	0.25	12/21/2020 19:42	T
Chlorobenzene	0.36	U	ug/L	1	1.0	0.36	12/21/2020 19:42	T
Chloroform	0.32	U	ug/L	1	1.0	0.32	12/21/2020 19:42	T
Dibromochloromethane	0.37	U	ug/L	1	1.0	0.37	12/21/2020 19:42	T
Ethylbenzene	0.31	U	ug/L	1	1.0	0.31	12/21/2020 19:42	T
Methylene Chloride	0.44	U	ug/L	1	1.0	0.44	12/21/2020 19:42	T
Styrene	0.25	U	ug/L	1	1.0	0.25	12/21/2020 19:42	T
Tetrachloroethylene (PCE)	0.42	U	ug/L	1	1.0	0.42	12/21/2020 19:42	T
Toluene	0.33	U	ug/L	1	1.0	0.33	12/21/2020 19:42	T
Total Trihalomethanes	0.45	U	ug/L	1	1.0	0.45	12/21/2020 19:42	T
Trichloroethene	0.14	U	ug/L	1	1.0	0.14	12/21/2020 19:42	T
Vinyl Chloride	0.29	U	ug/L	1	1.0	0.29	12/21/2020 19:42	T
Xylene (Total)	0.44	U	ug/L	1	3.0	0.44	12/21/2020 19:42	T
cis-1,2-Dichloroethylene	0.27	U	ug/L	1	1.0	0.27	12/21/2020 19:42	T
trans-1,2-Dichloroethylene	0.21	U	ug/L	1	1.0	0.21	12/21/2020 19:42	T
1,2-Dichloroethane-d4 (S)	103		%	1	70-130		12/21/2020 19:42	
1,2-Dichloroethane-d4 (S)	103		%	1	70-130		12/21/2020 19:42	
Toluene-d8 (S)	100		%	1	70-130		12/21/2020 19:42	
Toluene-d8 (S)	100		%	1	70-130		12/21/2020 19:42	
Bromofluorobenzene (S)	101		%	1	70-130		12/21/2020 19:42	
Bromofluorobenzene (S)	101		%	1	70-130		12/21/2020 19:42	

Analysis Desc: 8260B VOCs Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	12/12/2020 21:07	T
1,1-Dichloroethane	0.38	U	ug/L	1	1.0	0.38	12/12/2020 21:07	T
1,3-Dichlorobenzene	0.40	U	ug/L	1	1.0	0.40	12/12/2020 21:07	T
2-Chloroethyl Vinyl Ether	0.79	U	ug/L	1	1.0	0.79	12/12/2020 21:07	T
Acrolein (Propenal)	1.8	U	ug/L	1	4.0	1.8	12/12/2020 21:07	T
Acrylonitrile	0.38	U	ug/L	1	5.0	0.38	12/12/2020 21:07	T
Bromomethane	0.32	U	ug/L	1	1.0	0.32	12/12/2020 21:07	T
Chloroethane	0.42	U	ug/L	1	1.0	0.42	12/12/2020 21:07	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001**
Sample ID: **Leachate Effluent-Semi Annual**

Date Received: 12/10/20 14:00 Matrix: Water
Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	0.39	U	ug/L	1	1.0	0.39	12/12/2020 21:07	T
trans-1,3-Dichloropropylene	0.26	U	ug/L	1	1.0	0.26	12/12/2020 21:07	T
1,2-Dichloroethane-d4 (S)	90		%	1	70-128		12/12/2020 21:07	
Toluene-d8 (S)	98		%	1	77-119		12/12/2020 21:07	
Bromofluorobenzene (S)	105		%	1	86-123		12/12/2020 21:07	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water		Analytical Method: EPA 300.0						
Chloride	5800		mg/L	25	120	25	12/21/2020 21:12	T
Fluoride	5.0	U	mg/L	25	12	5.0	12/21/2020 21:12	T
Sulfate	150		mg/L	25	120	25	12/21/2020 21:12	T

Analysis Desc: COD,E410.4,Water		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	710		mg/L	1	50	20	12/16/2020 14:00	T

Analysis Desc: Color,SM2120B,Water		Analytical Method: SM 2120 B						
Color	320		PCU	5	25	22	12/11/2020 15:15	T
pH for Color Analysis	7.4		SU	5	5.0	0.10	12/11/2020 15:15	T

Analysis Desc: Odor,SM2150B,Water		Analytical Method: SM 2150 B						
Odor	1.0	U	TON @ 40°C	1	1.0	1.0	12/10/2020 15:34	T

Analysis Desc: Tot Dissolved Solids,SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	8200		mg/L	1	10	10	12/11/2020 10:20	T

Analysis Desc: TSS,SM2540D,Water		Analytical Method: SM 2540D						
Total Suspended Solids	150		mg/L	10	10	10	12/15/2020 17:00	T

Analysis Desc: Hexavalent Chromium,SM3500-CR D,Water		Analytical Method: SM 3500-CR D						
Hexavalent Chromium	0.0021	U	mg/L	1	0.010	0.0021	12/10/2020 14:45	T

Analysis Desc: Cyanide, SM4500-E, Water		Analytical Method: SM 4500-CN-E						
Cyanide	0.0081	I	mg/L	1	0.010	0.0040	12/16/2020 13:59	T

Analysis Desc: .PH,SM4500H+B, Water		Analytical Method: SM 4500H+B						
pH	7.5	Q	SU	1	0.1	0.1	12/14/2020 08:29	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868001** Date Received: 12/10/20 14:00 Matrix: Water
Sample ID: **Leachate Effluent-Semi Annual** Date Collected: 12/10/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	96		mg/L	100	10	9.2	12/11/2020 19:18	T
Nitrite (as N)	26		mg/L	100	10	8.1	12/11/2020 19:18	T
Analysis Desc: BOD,SM5210B,Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	37		mg/L	1	2.0	2.0	12/11/2020 11:08	T
Analysis Desc: SURFACT- MBAS,SM5540C,Aqueous		Analytical Method: SM 5540 C						
MBAS,as LAS,mol.wt.348	0.58		mg/L	1	0.20	0.040	12/11/2020 09:32	G

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters			Preparation Method: EPA 200.7					
			Analytical Method: EPA 200.7					
Aluminum	0.20	U	mg/L	1	0.80	0.20	12/16/2020 11:28	T
Barium	0.0030	U	mg/L	1	0.012	0.0030	12/14/2020 15:01	T
Beryllium	0.0020	U	mg/L	1	0.0080	0.0020	12/14/2020 15:01	T
Chromium	0.0050	U	mg/L	1	0.020	0.0050	12/14/2020 15:01	T
Iron	0.20	U	mg/L	1	0.80	0.20	12/14/2020 15:01	T
Nickel	0.010	U	mg/L	1	0.040	0.010	12/14/2020 15:01	T
Sodium	0.80	U	mg/L	1	3.2	0.80	12/14/2020 15:01	T
Zinc	0.050	U	mg/L	1	0.20	0.050	12/14/2020 15:01	T
Analysis Desc: E200.8 Analysis,Waters			Preparation Method: EPA 200.8					
			Analytical Method: EPA 200.8					
Antimony	0.0010	U	mg/L	1	0.0040	0.0010	12/19/2020 00:42	J
Arsenic	0.00025	U	mg/L	1	0.0010	0.00025	12/22/2020 12:24	J
Cadmium	0.00025	U	mg/L	1	0.0010	0.00025	12/19/2020 00:42	J
Copper	0.0022	I	mg/L	1	0.0040	0.0010	12/19/2020 00:42	J
Lead	0.00050	U	mg/L	1	0.0020	0.00050	12/19/2020 00:42	J
Manganese	0.0010	U	mg/L	1	0.0040	0.0010	12/19/2020 00:42	J
Selenium	0.0012	U	mg/L	1	0.0050	0.0012	12/19/2020 00:42	J
Silver	0.00050	U	mg/L	1	0.0020	0.00050	12/19/2020 00:42	J
Thallium	0.00025	U	mg/L	1	0.0010	0.00025	12/19/2020 00:42	J
Uranium	0.20	U	ug/L	1	0.80	0.20	12/19/2020 00:42	J
Analysis Desc: EPA 245.1 Analysis,Water			Preparation Method: EPA 245.1					
			Analytical Method: EPA 245.1					
Mercury	0.000028	U	mg/L	1	0.00010	0.000028	12/15/2020 11:12	T
SEMIVOLATILES								
Analysis Desc: E504.1 Analysis, Water			Preparation Method: EPA 504.1					
			Analytical Method: EPA 504.1					
1,2-Dibromo-3-Chloropropane	0.017	U	ug/L	1	0.020	0.017	12/17/2020 00:20	T
Ethylene Dibromide (EDB)	0.011	U	ug/L	1	0.020	0.011	12/17/2020 00:20	T
Tetrachloro-m-xylene (S)	139		%	1	64-150		12/17/2020 00:20	
Analysis Desc: E508 Analysis, Water			Preparation Method: EPA 508					
			Analytical Method: EPA 508					

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chlordane (technical)	0.053	U	ug/L	1	0.20	0.053	12/16/2020 01:13	J
Endrin	0.0069	U	ug/L	1	0.020	0.0069	12/16/2020 01:13	J
Heptachlor	0.0060	U	ug/L	1	0.020	0.0060	12/16/2020 01:13	J
Heptachlor Epoxide	0.0052	U	ug/L	1	0.020	0.0052	12/16/2020 01:13	J
Hexachlorobenzene	0.0063	U	ug/L	1	0.020	0.0063	12/16/2020 01:13	J
Hexachlorocyclopentadiene	0.019	U	ug/L	1	0.020	0.019	12/16/2020 01:13	J
Methoxychlor	0.0068	U	ug/L	1	0.020	0.0068	12/16/2020 01:13	J
PCBs	0.093	U	ug/L	1	0.20	0.093	12/16/2020 01:13	J
Toxaphene	0.12	U	ug/L	1	0.20	0.12	12/16/2020 01:13	J
gamma-BHC (Lindane)	0.0071	U	ug/L	1	0.020	0.0071	12/16/2020 01:13	J
Decachlorobiphenyl (S)	87		%	1	70-130		12/16/2020 01:13	

Analysis Desc: E515.3 Analysis, Water

Preparation Method: EPA 515.3

Analytical Method: EPA 515.3

2,4-D	0.095	U	ug/L	1	5.0	0.095	12/17/2020 10:51	J
Dalapon	0.90	U	ug/L	1	5.0	0.90	12/17/2020 10:51	J
Dinoseb	0.18	U	ug/L	1	2.5	0.18	12/17/2020 10:51	J
Pentachlorophenol	0.038	U	ug/L	1	0.50	0.038	12/17/2020 10:51	J
Picloram	0.090	U	ug/L	1	0.50	0.090	12/17/2020 10:51	J
Silvex (2,4,5-TP)	0.090	U	ug/L	1	1.0	0.090	12/17/2020 10:51	J
2,4-Dichlorophenylacetic acid (S)	123		%	1	70-130		12/17/2020 10:51	

Analysis Desc: E525.2 Analysis, Water

Preparation Method: EPA 525.2

Analytical Method: EPA 525.2

Alachlor	0.15	U	ug/L	1	0.50	0.15	12/16/2020 22:25	J
Atrazine	0.090	U	ug/L	1	0.50	0.090	12/16/2020 22:25	J
Benzo[a]pyrene	0.015	U	ug/L	1	0.50	0.015	12/16/2020 22:25	J
Di(2-ethylhexyl) adipate	0.50	U	ug/L	1	1.0	0.50	12/16/2020 22:25	J
Simazine	0.060	U	ug/L	1	0.50	0.060	12/16/2020 22:25	J
bis(2-Ethylhexyl) phthalate	0.50	U	ug/L	1	2.0	0.50	12/16/2020 22:25	J
p-Terphenyl-d14 (S)	111		%	1	70-130		12/16/2020 22:25	

Analysis Desc: E531.1 Analysis, Water

Analytical Method: EPA 531.1

Carbofuran	0.51	U	ug/L	1	2.5	0.51	12/17/2020 09:43	J
Oxamyl	1.8	U	ug/L	1	2.5	1.8	12/17/2020 09:43	J

Analysis Desc: E547 Analysis, Water

Analytical Method: EPA 547

Glyphosate	5.9	U	ug/L	1	50	5.9	12/14/2020 23:37	J
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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E548.1 Analysis, Water		Preparation Method: EPA 548.1						
		Analytical Method: EPA 548.1						
Endothall	6.0	U	ug/L	1	8.0	6.0	12/14/2020 15:09	J
Analysis Desc: E549.2 Analysis, Water		Preparation Method: EPA 549.2						
		Analytical Method: EPA 549.2						
Diquat	0.37	U	ug/L	1	5.0	0.37	12/11/2020 18:58	J
Analysis Desc: 552.2 Analysis, Water, HAA		Preparation Method: EPA 552.2						
		Analytical Method: EPA 552.2						
Bromoacetic Acid	0.41	U	ug/L	1	1.0	0.41	12/19/2020 06:17	T
Chloroacetic Acid	0.98	U	ug/L	1	1.0	0.98	12/19/2020 06:17	T
Dibromoacetic Acid	0.74	U	ug/L	1	1.0	0.74	12/19/2020 06:17	T
Dichloroacetic Acid	0.42	U	ug/L	1	1.0	0.42	12/19/2020 06:17	T
Total Haloacetic Acids (HAA5)	0.98	U	ug/L	1	1.0	0.98	12/19/2020 06:17	T
Trichloroacetic Acid	0.94	U	ug/L	1	1.0	0.94	12/19/2020 06:17	T
2,3-Dibromopropionic Acid (S)	99		%	1	70-130		12/19/2020 06:17	
Analysis Desc: 8081B Pesticide Analysis, Water		Preparation Method: SW-846 3510C						
		Analytical Method: EPA 8081						
4,4'-DDD	0.029	U	ug/L	1	0.052	0.029	12/16/2020 04:27	T
4,4'-DDE	0.0071	U	ug/L	1	0.052	0.0071	12/16/2020 04:27	T
4,4'-DDT	0.016	U	ug/L	1	0.052	0.016	12/16/2020 04:27	T
Aldrin	0.015	U	ug/L	1	0.052	0.015	12/16/2020 04:27	T
Dieldrin	0.030	U	ug/L	1	0.052	0.030	12/16/2020 04:27	T
Endosulfan I	0.0065	U	ug/L	1	0.052	0.0065	12/16/2020 04:27	T
Endosulfan II	0.0066	U	ug/L	1	0.052	0.0066	12/16/2020 04:27	T
Endosulfan Sulfate	0.026	U	ug/L	1	0.052	0.026	12/16/2020 04:27	T
Endrin Aldehyde	0.019	U	ug/L	1	0.052	0.019	12/16/2020 04:27	T
alpha-BHC	0.0038	U	ug/L	1	0.052	0.0038	12/16/2020 04:27	T
beta-BHC	0.015	U	ug/L	1	0.052	0.015	12/16/2020 04:27	T
delta-BHC	0.013	U	ug/L	1	0.052	0.013	12/16/2020 04:27	T
Tetrachloro-m-xylene (S)	89		%	1	44-124		12/16/2020 04:27	
Decachlorobiphenyl (S)	62		%	1	48-137		12/16/2020 04:27	
Analysis Desc: 8082A PCB Analysis, Water		Preparation Method: SW-846 3510C						
		Analytical Method: SW-846 8082A						
Aroclor 1016 (PCB-1016)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Aroclor 1221 (PCB-1221)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Aroclor 1232 (PCB-1232)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Aroclor 1242 (PCB-1242)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Aroclor 1248 (PCB-1248)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Aroclor 1254 (PCB-1254)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Aroclor 1260 (PCB-1260)	0.14	U	ug/L	1	0.21	0.14	12/16/2020 04:27	T
Tetrachloro-m-xylene (S)	89		%	1	61-119		12/16/2020 04:27	
Decachlorobiphenyl (S)	62		%	1	44-136		12/16/2020 04:27	

Analysis Desc: 8270C Analysis, Water

Preparation Method: SW-846 3510C

Analytical Method: SW-846 8270C

1,2-Diphenylhydrazine	1.6	U	ug/L	1	5.0	1.6	12/18/2020 22:23	T
2,4,6-Trichlorophenol	1.3	U	ug/L	1	5.0	1.3	12/18/2020 22:23	T
2,4-Dichlorophenol	0.32	U	ug/L	1	5.0	0.32	12/18/2020 22:23	T
2,4-Dimethylphenol	0.62	U	ug/L	1	5.0	0.62	12/18/2020 22:23	T
2,4-Dinitrophenol	2.3	U	ug/L	1	5.0	2.3	12/18/2020 22:23	T
2,4-Dinitrotoluene (2,4-DNT)	2.3	U	ug/L	1	5.0	2.3	12/18/2020 22:23	T
2,6-Dinitrotoluene (2,6-DNT)	2.2	U	ug/L	1	5.0	2.2	12/18/2020 22:23	T
2-Chloronaphthalene	4.0	U	ug/L	1	5.0	4.0	12/18/2020 22:23	T
2-Chlorophenol	1.6	U	ug/L	1	5.0	1.6	12/18/2020 22:23	T
2-Methyl-4,6-dinitrophenol	2.2	U	ug/L	1	5.0	2.2	12/18/2020 22:23	T
2-Nitrophenol	1.2	U	ug/L	1	5.0	1.2	12/18/2020 22:23	T
3,3'-Dichlorobenzidine	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
4-Bromophenyl Phenyl Ether	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
4-Chloro-3-methylphenol	0.84	U	ug/L	1	5.0	0.84	12/18/2020 22:23	T
4-Chlorophenyl Phenyl Ether	0.79	U	ug/L	1	5.0	0.79	12/18/2020 22:23	T
4-Nitrophenol	0.83	U	ug/L	1	5.0	0.83	12/18/2020 22:23	T
Acenaphthene	0.0070	U	ug/L	1	0.050	0.0070	12/18/2020 22:23	T
Acenaphthylene	0.0080	U	ug/L	1	0.050	0.0080	12/18/2020 22:23	T
Anthracene	0.013	U	ug/L	1	0.050	0.013	12/18/2020 22:23	T
Benzidine	2.1	U	ug/L	1	5.0	2.1	12/18/2020 22:23	T
Benzo[a]anthracene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 22:23	T
Benzo[b]fluoranthene	0.011	U	ug/L	1	0.025	0.011	12/18/2020 22:23	T
Benzo[g,h,i]perylene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 22:23	T
Benzo[k]fluoranthene	0.0068	U	ug/L	1	0.050	0.0068	12/18/2020 22:23	T
Butyl benzyl phthalate	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
Chrysene	0.0078	U	ug/L	1	0.050	0.0078	12/18/2020 22:23	T
Di-n-Butyl Phthalate	1.9	U	ug/L	1	5.0	1.9	12/18/2020 22:23	T
Di-n-octyl Phthalate	2.0	U	ug/L	1	5.0	2.0	12/18/2020 22:23	T
Dibenzo[a,h]anthracene	0.013	U	ug/L	1	0.050	0.013	12/18/2020 22:23	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Diethyl phthalate	1.3	U	ug/L	1	5.0	1.3	12/18/2020 22:23	T
Dimethyl phthalate	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
Fluoranthene	0.0094	U	ug/L	1	0.050	0.0094	12/18/2020 22:23	T
Fluorene	0.0096	U	ug/L	1	0.050	0.0096	12/18/2020 22:23	T
Hexachlorobutadiene	0.34	U	ug/L	1	5.0	0.34	12/18/2020 22:23	T
Hexachloroethane	1.8	U	ug/L	1	5.0	1.8	12/18/2020 22:23	T
Indeno(1,2,3-cd)pyrene	0.011	U	ug/L	1	0.050	0.011	12/18/2020 22:23	T
Isophorone	0.70	U	ug/L	1	5.0	0.70	12/18/2020 22:23	T
N-Nitrosodi-n-propylamine	1.5	U	ug/L	1	5.0	1.5	12/18/2020 22:23	T
N-Nitrosodimethylamine	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
N-Nitrosodiphenylamine	0.95	U	ug/L	1	5.0	0.95	12/18/2020 22:23	T
Naphthalene	0.014	U	ug/L	1	0.050	0.014	12/18/2020 22:23	T
Nitrobenzene	1.1	U	ug/L	1	5.0	1.1	12/18/2020 22:23	T
Phenanthrene	0.0091	U	ug/L	1	0.050	0.0091	12/18/2020 22:23	T
Phenol	1.0	U	ug/L	1	5.0	1.0	12/18/2020 22:23	T
Pyrene	0.0093	U	ug/L	1	0.050	0.0093	12/18/2020 22:23	T
bis(2-Chloroethoxy)methane	1.0	U	ug/L	1	5.0	1.0	12/18/2020 22:23	T
bis(2-Chloroethyl)Ether	0.46	U	ug/L	1	5.0	0.46	12/18/2020 22:23	T
bis(2-Chloroisopropyl) Ether	0.38	U	ug/L	1	5.0	0.38	12/18/2020 22:23	T
bis(2-Ethylhexyl) phthalate	2.3	U	ug/L	1	5.0	2.3	12/18/2020 22:23	T
2-Fluorophenol (S)	27	J4	%	1	31-134		12/18/2020 22:23	
Phenol-d6 (S)	19	J4	%	1	24-120		12/18/2020 22:23	
Nitrobenzene-d5 (S)	45		%	1	38-139		12/18/2020 22:23	
2-Fluorobiphenyl (S)	49		%	1	42-138		12/18/2020 22:23	
2,4,6-Tribromophenol (S)	66		%	1	48-147		12/18/2020 22:23	
p-Terphenyl-d14 (S)	71		%	1	61-154		12/18/2020 22:23	

VOLATILES

Analysis Desc: 524.2 Analysis, Water

Analytical Method: EPA 524.2

1,1,1-Trichloroethane	0.29	U	ug/L	1	1.0	0.29	12/17/2020 14:17	T
1,1,2-Trichloroethane	0.27	U	ug/L	1	1.0	0.27	12/17/2020 14:17	T
1,1-Dichloroethylene	0.22	U	ug/L	1	1.0	0.22	12/17/2020 14:17	T
1,2,4-Trichlorobenzene	0.44	U	ug/L	1	1.0	0.44	12/17/2020 14:17	T
1,2-Dichlorobenzene	0.39	U	ug/L	1	1.0	0.39	12/17/2020 14:17	T
1,2-Dichloroethane	0.24	U	ug/L	1	1.0	0.24	12/17/2020 14:17	T
1,2-Dichloropropane	0.26	U	ug/L	1	1.0	0.26	12/17/2020 14:17	T
1,4-Dichlorobenzene	0.33	U	ug/L	1	1.0	0.33	12/17/2020 14:17	T
Benzene	0.26	U	ug/L	1	1.0	0.26	12/17/2020 14:17	T
Bromodichloromethane	0.42	U	ug/L	1	1.0	0.42	12/17/2020 14:17	T
Bromoform	0.45	U	ug/L	1	1.0	0.45	12/17/2020 14:17	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Carbon Tetrachloride	0.25	U	ug/L	1	1.0	0.25	12/17/2020 14:17	T
Chlorobenzene	0.36	U	ug/L	1	1.0	0.36	12/17/2020 14:17	T
Chloroform	0.32	U	ug/L	1	1.0	0.32	12/17/2020 14:17	T
Dibromochloromethane	0.37	U	ug/L	1	1.0	0.37	12/17/2020 14:17	T
Ethylbenzene	0.31	U	ug/L	1	1.0	0.31	12/17/2020 14:17	T
Methylene Chloride	0.44	U	ug/L	1	1.0	0.44	12/17/2020 14:17	T
Styrene	0.25	U	ug/L	1	1.0	0.25	12/17/2020 14:17	T
Tetrachloroethylene (PCE)	0.42	U	ug/L	1	1.0	0.42	12/17/2020 14:17	T
Toluene	0.33	U	ug/L	1	1.0	0.33	12/17/2020 14:17	T
Total Trihalomethanes	0.45	U	ug/L	1	1.0	0.45	12/17/2020 14:17	T
Trichloroethene	0.14	U	ug/L	1	1.0	0.14	12/17/2020 14:17	T
Vinyl Chloride	0.29	U	ug/L	1	1.0	0.29	12/17/2020 14:17	T
Xylene (Total)	0.44	U	ug/L	1	3.0	0.44	12/17/2020 14:17	T
cis-1,2-Dichloroethylene	0.27	U	ug/L	1	1.0	0.27	12/17/2020 14:17	T
trans-1,2-Dichloroethylene	0.21	U	ug/L	1	1.0	0.21	12/17/2020 14:17	T
1,2-Dichloroethane-d4 (S)	101		%	1	70-130		12/17/2020 14:17	
1,2-Dichloroethane-d4 (S)	102		%	1	70-130		12/17/2020 14:17	
Toluene-d8 (S)	99		%	1	70-130		12/17/2020 14:17	
Toluene-d8 (S)	99		%	1	70-130		12/17/2020 14:17	
Bromofluorobenzene (S)	100		%	1	70-130		12/17/2020 14:17	
Bromofluorobenzene (S)	104		%	1	70-130		12/17/2020 14:17	

Analysis Desc: 8260B VOCs Analysis,
Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	12/12/2020 21:33	T
1,1-Dichloroethane	0.38	U	ug/L	1	1.0	0.38	12/12/2020 21:33	T
1,3-Dichlorobenzene	0.40	U	ug/L	1	1.0	0.40	12/12/2020 21:33	T
2-Chloroethyl Vinyl Ether	0.79	U	ug/L	1	1.0	0.79	12/12/2020 21:33	T
Acrolein (Propenal)	1.8	U	ug/L	1	4.0	1.8	12/12/2020 21:33	T
Acrylonitrile	0.38	U	ug/L	1	5.0	0.38	12/12/2020 21:33	T
Bromomethane	0.32	U	ug/L	1	1.0	0.32	12/12/2020 21:33	T
Chloroethane	0.42	U	ug/L	1	1.0	0.42	12/12/2020 21:33	T
Chloromethane	0.39	U	ug/L	1	1.0	0.39	12/12/2020 21:33	T
trans-1,3-Dichloropropylene	0.26	U	ug/L	1	1.0	0.26	12/12/2020 21:33	T
1,2-Dichloroethane-d4 (S)	87		%	1	70-128		12/12/2020 21:33	
Toluene-d8 (S)	96		%	1	77-119		12/12/2020 21:33	
Bromofluorobenzene (S)	106		%	1	86-123		12/12/2020 21:33	

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

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	1.0	U	mg/L	1	5.0	1.0	12/21/2020 21:28	T
Fluoride	0.20	U	mg/L	1	0.50	0.20	12/21/2020 21:28	T
Sulfate	1.0	U	mg/L	1	5.0	1.0	12/21/2020 21:28	T
Analysis Desc: COD,E410.4,Water		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	20	U	mg/L	1	50	20	12/16/2020 14:00	T
Analysis Desc: Color,SM2120B,Water		Analytical Method: SM 2120 B						
Color	4.3	U	PCU	1	5.0	4.3	12/11/2020 15:15	T
pH for Color Analysis	7.8		SU	1	5.0	0.10	12/11/2020 15:15	T
Analysis Desc: Odor,SM2150B,Water		Analytical Method: SM 2150 B						
Odor	1.0	U	TON @ 40°C	1	1.0	1.0	12/10/2020 15:34	T
Analysis Desc: Tot Dissolved Solids,SM2540C		Analytical Method: SM 2540 C						
Total Dissolved Solids	10	U	mg/L	1	10	10	12/11/2020 10:20	T
Analysis Desc: TSS,SM2540D,Water		Analytical Method: SM 2540D						
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	12/15/2020 17:00	T
Analysis Desc: Hexavalent Chromium,SM3500-CR D,Water		Analytical Method: SM 3500-CR D						
Hexavalent Chromium	0.0021	U	mg/L	1	0.010	0.0021	12/10/2020 14:45	T
Analysis Desc: Cyanide, SM4500-E, Water		Analytical Method: SM 4500-CN-E						
Cyanide	0.0040	U	mg/L	1	0.010	0.0040	12/16/2020 14:01	T
Analysis Desc: .PH,SM4500H+B, Water		Analytical Method: SM 4500H+B						
pH	7.8	Q	SU	1	0.1	0.1	12/14/2020 08:29	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water		Analytical Method: SM 4500NO3-F						
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	12/11/2020 18:42	T
Nitrite (as N)	0.081	U	mg/L	1	0.10	0.081	12/11/2020 18:42	T
Analysis Desc: BOD,SM5210B,Water		Analytical Method: SM 5210B						
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	12/11/2020 11:21	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868002**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 12/10/20 10:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SURFACT-MBAS,SM5540C,Aqueous Analytical Method: SM 5540 C								
MBAS,as LAS,mol.wt.348	0.040	U	mg/L	1	0.20	0.040	12/11/2020 09:32	G

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868003**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Travel Blank**

Date Collected: 12/10/20 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-Trichloroethane	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	12/12/2020 22:00	T
1,1,2-Trichloroethane	0.40	U	ug/L	1	1.0	0.40	12/12/2020 22:00	T
1,1-Dichloroethane	0.38	U	ug/L	1	1.0	0.38	12/12/2020 22:00	T
1,1-Dichloroethylene	0.41	U	ug/L	1	1.0	0.41	12/12/2020 22:00	T
1,2,4-Trimethylbenzene	0.41	U	ug/L	1	1.0	0.41	12/12/2020 22:00	T
1,2-Dichlorobenzene	0.44	U	ug/L	1	1.0	0.44	12/12/2020 22:00	T
1,2-Dichloroethane	0.40	U	ug/L	1	1.0	0.40	12/12/2020 22:00	T
1,2-Dichloropropane	0.18	U	ug/L	1	1.0	0.18	12/12/2020 22:00	T
1,3,5-Trimethylbenzene	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
1,3-Dichlorobenzene	0.40	U	ug/L	1	1.0	0.40	12/12/2020 22:00	T
1,4-Dichlorobenzene	0.36	U	ug/L	1	1.0	0.36	12/12/2020 22:00	T
2-Chloroethyl Vinyl Ether	0.79	U	ug/L	1	1.0	0.79	12/12/2020 22:00	T
Acrolein (Propenal)	1.8	U	ug/L	1	4.0	1.8	12/12/2020 22:00	T
Acrylonitrile	0.38	U	ug/L	1	5.0	0.38	12/12/2020 22:00	T
Benzene	0.28	U	ug/L	1	1.0	0.28	12/12/2020 22:00	T
Bromodichloromethane	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
Bromoform	0.36	U	ug/L	1	1.0	0.36	12/12/2020 22:00	T
Bromomethane	0.32	U	ug/L	1	1.0	0.32	12/12/2020 22:00	T
Carbon Tetrachloride	0.41	U	ug/L	1	1.0	0.41	12/12/2020 22:00	T
Chlorobenzene	0.38	U	ug/L	1	1.0	0.38	12/12/2020 22:00	T
Chloroethane	0.42	U	ug/L	1	1.0	0.42	12/12/2020 22:00	T
Chloroform	0.37	U	ug/L	1	1.0	0.37	12/12/2020 22:00	T
Chloromethane	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
Dibromochloromethane	0.36	U	ug/L	1	1.0	0.36	12/12/2020 22:00	T
Dichlorodifluoromethane	0.53	U	ug/L	1	1.0	0.53	12/12/2020 22:00	T
Ethylbenzene	0.56	U	ug/L	1	1.0	0.56	12/12/2020 22:00	T
Isopropylbenzene	0.42	U	ug/L	1	1.0	0.42	12/12/2020 22:00	T
Methyl tert-butyl Ether (MTBE)	0.71	U	ug/L	1	1.0	0.71	12/12/2020 22:00	T
Methylene Chloride	0.56	U	ug/L	1	1.0	0.56	12/12/2020 22:00	T
Tetrachloroethylene (PCE)	0.45	U	ug/L	1	1.0	0.45	12/12/2020 22:00	T
Toluene	0.66	U	ug/L	1	1.0	0.66	12/12/2020 22:00	T
Trichloroethene	0.32	U	ug/L	1	1.0	0.32	12/12/2020 22:00	T
Trichlorofluoromethane	0.26	U	ug/L	1	1.0	0.26	12/12/2020 22:00	T
Vinyl Chloride	0.44	U	ug/L	1	1.0	0.44	12/12/2020 22:00	T
Xylene (Total)	1.3	U	ug/L	1	2.0	1.3	12/12/2020 22:00	T

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ANALYTICAL RESULTS

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID: **T2022868003**

Date Received: 12/10/20 14:00 Matrix: Water

Sample ID: **Travel Blank**

Date Collected: 12/10/20 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
cis-1,2-Dichloroethylene	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
cis-1,3-Dichloropropene	0.26	U	ug/L	1	1.0	0.26	12/12/2020 22:00	T
trans-1,2-Dichloroethylene	0.39	U	ug/L	1	1.0	0.39	12/12/2020 22:00	T
trans-1,3-Dichloropropylene	0.26	U	ug/L	1	1.0	0.26	12/12/2020 22:00	T
1,2-Dichloroethane-d4 (S)	90		%	1	70-128		12/12/2020 22:00	
Toluene-d8 (S)	96		%	1	77-119		12/12/2020 22:00	
Bromofluorobenzene (S)	107		%	1	86-123		12/12/2020 22:00	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T2022868 SELF Plant Effluent Semi

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
-
- Q Missed Hold Time
- J4 Estimated Result
- [2] The surrogates are not applicable. Sample diluted due to the matrix

LAB QUALIFIERS

- G DOH Certification #E82001(AEL-G)(FL NELAC Certification)
- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
- J^ Not Certified
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

QC Batch: EXTj/2702 Analysis Method: EPA 549.2
QC Batch Method: EPA 549.2 Prepared: 12/10/2020 10:30
Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3711269

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
Diquat	ug/L	0.37	0.37 U

LABORATORY CONTROL SAMPLE & LCSD: 3711270 3711271

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
SEMIVOLATILES									
Diquat	ug/L	19	18	17	94	89	70-130	6	30

MATRIX SPIKE SAMPLE: 3711985 Original: J2016959001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits Qualifiers
SEMIVOLATILES						
Diquat	ug/L	0	22	0.43	1	70-130

QC Batch: EXTj/2702 Analysis Method: EPA 549.2
QC Batch Method: EPA 549.2 Prepared: 12/11/2020 10:00
Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3711269

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
Diquat	ug/L	0.37	0.37 U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3711270 3711271

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Diquat	ug/L	19	18	17	94	89	70-130	6	30	

MATRIX SPIKE SAMPLE: 3711985 Original: J2016959001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Diquat	ug/L	0	22	0.43	1	70-130	

QC Batch: EXTj/2703

Analysis Method: EPA 548.1

QC Batch Method: EPA 548.1

Prepared: 12/10/2020 10:30

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3711282

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Endothall	ug/L	6.0	6.0	U

LABORATORY CONTROL SAMPLE & LCSD: 3711283 3711284

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Endothall	ug/L	50	48	48	95	96	63-131	0	30	

MATRIX SPIKE SAMPLE: 3711984 Original: J2016959001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Endothall	ug/L	0	50	30	60	63-131	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

QC Batch: WCAI/8137 Analysis Method: SM 2150 B
QC Batch Method: SM 2150 B Prepared:
Associated Lab Samples: T2022868001, T2022868002

SAMPLE DUPLICATE: 3711417 Original: T2022880001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Odor	TON @	1.0U	1.0	0	
QC Batch:	WCAI/8145		Analysis Method:	SM 3500-CR D	
QC Batch Method:	SM 3500-CR D		Prepared:		
Associated Lab Samples: T2022868001, T2022868002					

METHOD BLANK: 3711610

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Hexavalent Chromium	mg/L	0.0021	0.0021 U

LABORATORY CONTROL SAMPLE: 3711612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Hexavalent Chromium	mg/L	0.1	0.098	98	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711613 3711614 Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
WET CHEMISTRY										
Hexavalent Chromium	mg/L	0	0.1	0.091	0.091	91	91	85-115	0	20

QC Batch: WCAI/8146 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3711661

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

LABORATORY CONTROL SAMPLE: 3711662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	640	98	85-115	

SAMPLE DUPLICATE: 3711663

Original: T2022666005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	340	320	7	10	

QC Batch: WCAI/8153

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3712429

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

LABORATORY CONTROL SAMPLE: 3712430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Biochemical Oxygen Demand	mg/L	200	190	97	84.6-115.4	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

SAMPLE DUPLICATE: 3712431

Original: T2022868001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY Biochemical Oxygen Demand	mg/L	37	35	6	20
QC Batch:	WCAI/8164		Analysis Method:	SM 2120 B	
QC Batch Method:	SM 2120 B		Prepared:		
Associated Lab Samples: T2022868001, T2022868002					

METHOD BLANK: 3712742

Parameter	Units	Blank Result	Reporting Limit Qualifiers
pH for Color Analysis WET CHEMISTRY	SU	0.10	0.10 U
Color	PCU	4.3	4.3 U

LABORATORY CONTROL SAMPLE: 3712743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
pH for Color Analysis WET CHEMISTRY	SU		0.10		
Color	PCU	30	30	102	90-110

SAMPLE DUPLICATE: 3712745

Original: T2022912006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
pH for Color Analysis WET CHEMISTRY	SU	7.1	7.1	0	10
Color	PCU	6.7	6.7	0	20

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

SAMPLE DUPLICATE: 3719811

Original: T2022912002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
pH for Color Analysis	SU	6.8	6.8	0	10	
WET CHEMISTRY						
Color	PCU	4.3U	4.3	0	20	
QC Batch:	WCAI/8168		Analysis Method:	SM 4500NO3-F		
QC Batch Method:	SM 4500NO3-F		Prepared:			
Associated Lab Samples:	T2022868001, T2022868002					

METHOD BLANK: 3712820

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate (as N)	mg/L	0.092	0.092 U	
Nitrite (as N)	mg/L	0.081	0.081 U	

LABORATORY CONTROL SAMPLE: 3712821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Nitrate (as N)	mg/L	1	0.99	99	90-110	
Nitrite (as N)	mg/L	1	0.96	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712822

3712823

Original: T2022845001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Nitrate (as N)	mg/L	0.5	1	1.4	1.4	90	92	90-110	1	10	
Nitrite (as N)	mg/L	0.34	1	1.2	1.3	91	96	90-110	4	10	

QC Batch: DGM/2727

Analysis Method:

EPA 200.7

QC Batch Method: EPA 200.7

Prepared:

12/14/2020 05:20

Associated Lab Samples: T2022868001, T2022868002

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3712843

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Aluminum	mg/L	0.20	0.20	U
Barium	mg/L	0.0030	0.0030	U
Beryllium	mg/L	0.0020	0.0020	U
Chromium	mg/L	0.0050	0.0050	U
Iron	mg/L	0.20	0.20	U
Sodium	mg/L	0.80	0.80	U
Nickel	mg/L	0.010	0.010	U
Zinc	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE: 3712844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Aluminum	mg/L	4	3.7	93	85-115	
Barium	mg/L	0.06	0.054	91	85-115	
Beryllium	mg/L	0.04	0.036	90	85-115	
Chromium	mg/L	0.1	0.091	91	85-115	
Iron	mg/L	4	3.7	92	85-115	
Sodium	mg/L	16	15	91	85-115	
Nickel	mg/L	0.2	0.18	91	85-115	
Zinc	mg/L	1	0.90	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712845 3712846 Original: T2022423004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Aluminum	mg/L	0.21	4	0.64	0.651	11	11	70-130	0	20	
Barium	mg/L	0.0064	0.06	0.061	0.061	91	92	70-130	0	20	
Beryllium	mg/L	0	0.04	0.037	0.037	93	93	70-130	1	20	
Chromium	mg/L	0.0007	0.1	0.091	0.092	91	92	70-130	1	20	
Iron	mg/L	0.15	4	3.8	3.8	95	95	70-130	1	20	
Sodium	mg/L	910	16	880	870	-188	-267	70-130	1	20	
Nickel	mg/L	0.0032	0.2	0.18	0.18	91	91	70-130	0	20	
Zinc	mg/L	0.0004	1	0.92	0.93	92	93	70-130	1	20	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712847 3712848 Original: T2022871003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Aluminum	mg/L	0	4	0.29	0.281	7	7	70-130	1	20	
Barium	mg/L	0.12	0.06	0.18	0.18	95	93	70-130	1	20	
Beryllium	mg/L	0	0.04	0.038	0.038	94	94	70-130	0	20	
Chromium	mg/L	0.0057	0.1	0.097	0.096	91	90	70-130	1	20	
Iron	mg/L	2.3	4	5.7	5.6	85	84	70-130	1	20	
Sodium	mg/L	200	16	190	200	-54	-27	70-130	2	20	
Nickel	mg/L	0.036	0.2	0.21	0.21	88	89	70-130	1	20	
Zinc	mg/L	0.38	1	1.3	1.3	94	93	70-130	1	20	

QC Batch: DGM/2730

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Prepared: 12/14/2020 05:20

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3712857

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	mg/L	0.000028	0.000028	U

LABORATORY CONTROL SAMPLE: 3712858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	mg/L	0.001	0.0010	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712859 3712860 Original: S2003188001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Mercury	mg/L	2.3e-005	0.001	0.00099	0.0010	99	100	70-130	1	20	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712861 3712862 Original: T2022871003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/L	2.8e-005	0.001	0.00066	0.00066	66	66	70-130	0	20	

QC Batch: EXTj/2710

Analysis Method: EPA 508

QC Batch Method: EPA 508

Prepared: 12/14/2020 12:00

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3713093

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Hexachlorocyclopentadiene	ug/L	0.019	0.019	U
Hexachlorobenzene	ug/L	0.0063	0.0063	U
gamma-BHC (Lindane)	ug/L	0.0071	0.0071	U
Heptachlor	ug/L	0.0060	0.0060	U
Heptachlor Epoxide	ug/L	0.0052	0.0052	U
Endrin	ug/L	0.0069	0.0069	U
Methoxychlor	ug/L	0.0068	0.0068	U
PCBs	ug/L	0.093	0.093	U
Chlordane (technical)	ug/L	0.053	0.053	U
Toxaphene	ug/L	0.12	0.12	U
Decachlorobiphenyl (S)	%	95	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 3713094 3713095

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Hexachlorocyclopentadiene	ug/L	0.1	0.10	0.093	100	93	70-130	7	20	
Hexachlorobenzene	ug/L	0.1	0.093	0.093	93	93	70-130	0	20	
gamma-BHC (Lindane)	ug/L	0.1	0.079	0.090	79	90	70-130	14	20	
Heptachlor	ug/L	0.1	0.089	0.10	89	102	70-130	13	20	
Heptachlor Epoxide	ug/L	0.1	0.090	0.10	90	104	70-130	14	20	
Endrin	ug/L	0.1	0.088	0.10	88	102	70-130	15	20	
Methoxychlor	ug/L	0.1	0.090	0.11	90	106	70-130	16	20	
PCBs	ug/L		0.093	0.093U				0		
Chlordane (technical)	ug/L		0.053	0.053U				0		
Toxaphene	ug/L		0.12	0.12U				0		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3713094 3713095

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Decachlorobiphenyl (S)	%				97	108	70-130	11		

MATRIX SPIKE SAMPLE: 3713704 Original: T2022896001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Hexachlorocyclopentadiene	ug/L	0	0.1	0.083	83	65-135	
Hexachlorobenzene	ug/L	0	0.1	0.081	81	65-135	
gamma-BHC (Lindane)	ug/L	0	0.1	0.083	83	65-135	
Heptachlor	ug/L	0	0.1	0.079	79	65-135	
Heptachlor Epoxide	ug/L	0	0.1	0.083	83	65-135	
Endrin	ug/L	0	0.1	0.069	69	65-135	
Methoxychlor	ug/L	0	0.1	0.078	78	65-135	
PCBs	ug/L			0.093			
Chlordane (technical)	ug/L			0.053			
Toxaphene	ug/L			0.12			
Decachlorobiphenyl (S)	%				87	70-130	

MATRIX SPIKE SAMPLE: 3713706 Original: T2022868002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Hexachlorocyclopentadiene	ug/L	0	0.1	0.13	129	65-135	
Hexachlorobenzene	ug/L	0	0.1	0.083	83	65-135	
gamma-BHC (Lindane)	ug/L	0	0.1	0.078	78	65-135	
Heptachlor	ug/L	0	0.1	0.088	88	65-135	
Heptachlor Epoxide	ug/L	0	0.1	0.095	95	65-135	
Endrin	ug/L	0	0.1	0.076	77	65-135	
Methoxychlor	ug/L	0	0.1	0.085	85	65-135	
PCBs	ug/L			0.093			
Chlordane (technical)	ug/L			0.053			
Toxaphene	ug/L			0.12			
Decachlorobiphenyl (S)	%	87			93	70-130	

QC Batch: MSVt/3022

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B

Prepared: 12/12/2020 13:35

Associated Lab Samples: T2022868001, T2022868002, T2022868003

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3713386

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Dichlorodifluoromethane	ug/L	0.53	0.53	U
Chloromethane	ug/L	0.39	0.39	U
Vinyl Chloride	ug/L	0.44	0.44	U
Bromomethane	ug/L	0.32	0.32	U
Chloroethane	ug/L	0.42	0.42	U
Trichlorofluoromethane	ug/L	0.26	0.26	U
Acrolein (Propenal)	ug/L	1.8	1.8	U
1,1-Dichloroethylene	ug/L	0.41	0.41	U
Acrylonitrile	ug/L	0.38	0.38	U
Methylene Chloride	ug/L	0.56	0.56	U
trans-1,2-Dichloroethylene	ug/L	0.39	0.39	U
Methyl tert-butyl Ether (MTBE)	ug/L	0.71	0.71	U
1,1-Dichloroethane	ug/L	0.38	0.38	U
cis-1,2-Dichloroethylene	ug/L	0.39	0.39	U
Chloroform	ug/L	0.37	0.37	U
1,2-Dichloroethane	ug/L	0.40	0.40	U
1,1,1-Trichloroethane	ug/L	0.39	0.39	U
Carbon Tetrachloride	ug/L	0.41	0.41	U
Benzene	ug/L	0.28	0.28	U
1,2-Dichloropropane	ug/L	0.18	0.18	U
Trichloroethene	ug/L	0.32	0.32	U
Bromodichloromethane	ug/L	0.39	0.39	U
2-Chloroethyl Vinyl Ether	ug/L	0.79	0.79	U
cis-1,3-Dichloropropene	ug/L	0.26	0.26	U
trans-1,3-Dichloropropylene	ug/L	0.26	0.26	U
1,1,2-Trichloroethane	ug/L	0.40	0.40	U
Toluene	ug/L	0.66	0.66	U
Dibromochloromethane	ug/L	0.36	0.36	U
Tetrachloroethylene (PCE)	ug/L	0.45	0.45	U
Chlorobenzene	ug/L	0.38	0.38	U
Ethylbenzene	ug/L	0.56	0.56	U
Bromoform	ug/L	0.36	0.36	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
Isopropylbenzene	ug/L	0.42	0.42	U
1,3,5-Trimethylbenzene	ug/L	0.39	0.39	U
1,2,4-Trimethylbenzene	ug/L	0.41	0.41	U
1,3-Dichlorobenzene	ug/L	0.40	0.40	U
1,4-Dichlorobenzene	ug/L	0.36	0.36	U
1,2-Dichlorobenzene	ug/L	0.44	0.44	U
Xylene (Total)	ug/L	1.3	1.3	U
1,2-Dichloroethane-d4 (S)	%	89	70-128	
Toluene-d8 (S)	%	97	77-119	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3713386

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Bromofluorobenzene (S)	%	105	86-123

LABORATORY CONTROL SAMPLE & LCSD: 3713387 3713388

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Dichlorodifluoromethane	ug/L	20	25	0.53U	125	0		200		
Chloromethane	ug/L	20	21	0.39U	106	0		200		
Vinyl Chloride	ug/L	20	20	20	101	100	70-130	1	20	
Bromomethane	ug/L	20	12	0.32U	62	0		200		
Chloroethane	ug/L	20	31	0.42U	154	0		200		
Trichlorofluoromethane	ug/L	20	23	0.26U	114	0		200		
Acrolein (Propenal)	ug/L	100	64	1.8U	64	0		200		
1,1-Dichloroethylene	ug/L	20	22	22	109	110	70-130	2	20	
Acrylonitrile	ug/L	20	23	0.38U	115	0		200		
Methylene Chloride	ug/L	20	21	0.56U	106	0		200		
trans-1,2-Dichloroethylene	ug/L	20	22	0.39U	108	0		200		
Methyl tert-butyl Ether (MTBE)	ug/L	20	19	19	97	97	70-130	0	20	
1,1-Dichloroethane	ug/L	20	23	0.38U	116	0		200		
cis-1,2-Dichloroethylene	ug/L	20	21	22	107	111	70-130	3	20	
Chloroform	ug/L	20	22	22	111	109	70-130	2	20	
1,2-Dichloroethane	ug/L	20	21	0.40U	105	0		200		
1,1,1-Trichloroethane	ug/L	20	22	0.39U	109	0		200		
Carbon Tetrachloride	ug/L	20	20	0.41U	102	0		200		
Benzene	ug/L	20	23	23	113	115	70-130	1	20	
1,2-Dichloropropane	ug/L	20	22	0.18U	112	0		200		
Trichloroethene	ug/L	20	25	25	127	126	70-130	1	20	
Bromodichloromethane	ug/L	20	22	0.39U	110	0		200		
2-Chloroethyl Vinyl Ether	ug/L	20	14	0.79U	71	0		200		
cis-1,3-Dichloropropene	ug/L	20	20	0.26U	100	0		200		
trans-1,3-Dichloropropylene	ug/L	20	20	0.26U	99	0		200		
1,1,2-Trichloroethane	ug/L	20	25	0.40U	123	0		200		
Toluene	ug/L	20	22	23	109	115	70-130	5	20	
Dibromochloromethane	ug/L	20	22	0.36U	111	0		200		
Tetrachloroethylene (PCE)	ug/L	20	20	20	101	102	70-130	0	20	
Chlorobenzene	ug/L	20	22	23	112	113	70-130	1	20	
Ethylbenzene	ug/L	20	22	23	111	117	70-130	5	20	
Bromoform	ug/L	20	19	0.36U	94	0		200		
1,1,2,2-Tetrachloroethane	ug/L	20	17	0.20U	87	0		200		
Isopropylbenzene	ug/L	20	23	0.42U	117	0		200		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3713387 3713388

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
1,3,5-Trimethylbenzene	ug/L	20	23	0.39U	114	0		200		
1,2,4-Trimethylbenzene	ug/L	20	23	25	114	123	70-130	8	20	
1,3-Dichlorobenzene	ug/L	20	23	24	116	119	70-130	3	20	
1,4-Dichlorobenzene	ug/L	20	23	0.36U	113	0		200		
1,2-Dichlorobenzene	ug/L	20	23	23	114	116	70-130	2	20	
Xylene (Total)	ug/L	60	67	70	112	117	70-130	4	20	
1,2-Dichloroethane-d4 (S)	%				86	88	70-128	2		
Toluene-d8 (S)	%				97	100	77-119	4		
Bromofluorobenzene (S)	%				102	108	86-123	5		

MATRIX SPIKE SAMPLE: 3713389 Original: T2022949005

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Dichlorodifluoromethane	ug/L	0	20	0.53	0		
Chloromethane	ug/L	0	20	0.39	0		
Vinyl Chloride	ug/L	0	20	19	96	70-130	
Bromomethane	ug/L	0	20	0.32	0		
Chloroethane	ug/L	0	20	0.42	0		
Trichlorofluoromethane	ug/L	0	20	0.26	0		
Acrolein (Propenal)	ug/L	0	100	1.8	0		
1,1-Dichloroethylene	ug/L	0	20	22	110	70-130	
Acrylonitrile	ug/L	0	20	0.38	0		
Methylene Chloride	ug/L	0	20	0.56	0		
trans-1,2-Dichloroethylene	ug/L	0	20	0.39	0		
Methyl tert-butyl Ether (MTBE)	ug/L	0.72	20	20	96	70-130	
1,1-Dichloroethane	ug/L	0	20	0.38	0		
cis-1,2-Dichloroethylene	ug/L	0	20	22	109	70-130	
Chloroform	ug/L	0	20	22	111	70-130	
1,2-Dichloroethane	ug/L	0	20	0.40	0		
1,1,1-Trichloroethane	ug/L	0	20	0.39	0		
Carbon Tetrachloride	ug/L	0	20	0.41	0		
Benzene	ug/L	0	20	23	113	70-130	
1,2-Dichloropropane	ug/L	0	20	0.18	0		
Trichloroethene	ug/L	0	20	23	114	70-130	
Bromodichloromethane	ug/L	0	20	0.39	0		
2-Chloroethyl Vinyl Ether	ug/L	0	20	0.79	0		
cis-1,3-Dichloropropene	ug/L	0	20	0.26	0		
trans-1,3-Dichloropropylene	ug/L	0	20	0.26	0		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE SAMPLE: 3713389

Original: T2022949005

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichloroethane	ug/L	0	20	0.40	0		
Toluene	ug/L	0	20	22	111	70-130	
Dibromochloromethane	ug/L	0	20	0.36	0		
Tetrachloroethylene (PCE)	ug/L	0	20	21	103	70-130	
Chlorobenzene	ug/L	0	20	23	113	70-130	
Ethylbenzene	ug/L	0	20	21	106	70-130	
Bromoform	ug/L	0	20	0.36	0		
1,1,2,2-Tetrachloroethane	ug/L	0	20	0.20	0		
Isopropylbenzene	ug/L	0	20	0.42	0		
1,3,5-Trimethylbenzene	ug/L	0	20	0.39	0		
1,2,4-Trimethylbenzene	ug/L	0	20	22	111	70-130	
1,3-Dichlorobenzene	ug/L	0	20	23	116	70-130	
1,4-Dichlorobenzene	ug/L	0	20	0.36	0		
1,2-Dichlorobenzene	ug/L	0	20	23	114	70-130	
Xylene (Total)	ug/L	0	60	68	113	70-130	
1,2-Dichloroethane-d4 (S)	%	88			87	70-128	
Toluene-d8 (S)	%	96			95	77-119	
Bromofluorobenzene (S)	%	105			102	86-123	

QC Batch: EXTt/2319

Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C

Prepared: 12/14/2020 13:00

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3713752

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Phenol	ug/L	1.0	1.0	U
2-Chlorophenol	ug/L	1.6	1.6	U
2-Nitrophenol	ug/L	1.2	1.2	U
2,4-Dimethylphenol	ug/L	0.62	0.62	U
2,4-Dichlorophenol	ug/L	0.32	0.32	U
4-Chloro-3-methylphenol	ug/L	0.84	0.84	U
2,4,6-Trichlorophenol	ug/L	1.3	1.3	U
2,4-Dinitrophenol	ug/L	2.3	2.3	U
4-Nitrophenol	ug/L	0.83	0.83	U
2-Methyl-4,6-dinitrophenol	ug/L	2.2	2.2	U
N-Nitrosodimethylamine	ug/L	1.1	1.1	U
bis(2-Chloroethyl)Ether	ug/L	0.46	0.46	U
bis(2-Chloroisopropyl) Ether	ug/L	0.38	0.38	U
N-Nitrosodi-n-propylamine	ug/L	1.5	1.5	U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3713752

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Hexachloroethane	ug/L	1.8	1.8 U
Nitrobenzene	ug/L	1.1	1.1 U
Isophorone	ug/L	0.70	0.70 U
bis(2-Chloroethoxy)methane	ug/L	1.0	1.0 U
Naphthalene	ug/L	0.014	0.014 U
Hexachlorobutadiene	ug/L	0.34	0.34 U
2-Chloronaphthalene	ug/L	4.0	4.0 U
Dimethyl phthalate	ug/L	1.1	1.1 U
2,6-Dinitrotoluene (2,6-DNT)	ug/L	2.2	2.2 U
Acenaphthylene	ug/L	0.0080	0.0080 U
Acenaphthene	ug/L	0.0070	0.0070 U
2,4-Dinitrotoluene (2,4-DNT)	ug/L	2.3	2.3 U
Diethyl phthalate	ug/L	1.3	1.3 U
Fluorene	ug/L	0.0096	0.0096 U
4-Chlorophenyl Phenyl Ether	ug/L	0.79	0.79 U
1,2-Diphenylhydrazine	ug/L	1.6	1.6 U
4-Bromophenyl Phenyl Ether	ug/L	1.1	1.1 U
Phenanthrene	ug/L	0.0091	0.0091 U
Anthracene	ug/L	0.013	0.013 U
Di-n-Butyl Phthalate	ug/L	1.9	1.9 U
Fluoranthene	ug/L	0.0094	0.0094 U
Benzidine	ug/L	2.1	2.1 U
Pyrene	ug/L	0.0093	0.0093 U
Butyl benzyl phthalate	ug/L	1.1	1.1 U
Benzo[a]anthracene	ug/L	0.011	0.011 U
3,3'-Dichlorobenzidine	ug/L	1.1	1.1 U
Chrysene	ug/L	0.0078	0.0078 U
bis(2-Ethylhexyl) phthalate	ug/L	2.3	2.3 U
Di-n-octyl Phthalate	ug/L	2.0	2.0 U
Benzo[b]fluoranthene	ug/L	0.011	0.011 U
Benzo[k]fluoranthene	ug/L	0.0068	0.0068 U
Indeno(1,2,3-cd)pyrene	ug/L	0.011	0.011 U
Dibenzo[a,h]anthracene	ug/L	0.013	0.013 U
Benzo[g,h,i]perylene	ug/L	0.011	0.011 U
N-Nitrosodiphenylamine	ug/L	0.95	0.95 U
2-Fluorophenol (S)	%	50	31-134
Phenol-d6 (S)	%	39	24-120
Nitrobenzene-d5 (S)	%	59	38-139
2-Fluorobiphenyl (S)	%	63	42-138
2,4,6-Tribromophenol (S)	%	71	48-147
p-Terphenyl-d14 (S)	%	84	61-154

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3713753 3713754

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
N-Nitrosodimethylamine	ug/L	20	7.7	6.5	38	32		17		
Phenol	ug/L	20	9.9	8.9	50	44	19-106	11	20	
bis(2-Chloroethyl)Ether	ug/L	20	18	15	88	75		16		
2-Chlorophenol	ug/L	20	17	15	87	74		16		
bis(2-Chloroisopropyl) Ether	ug/L	20	17	15	84	73		14		
N-Nitrosodi-n-propylamine	ug/L	20	19	16	96	80		19		
Hexachloroethane	ug/L	20	12	11	61	55	21-115	10	20	
Nitrobenzene	ug/L	20	14	13	70	63	45-121	10	20	
Isophorone	ug/L	20	15	14	76	69		10		
2-Nitrophenol	ug/L	20	14	13	72	66		8		
2,4-Dimethylphenol	ug/L	20	16	14	79	71		11		
bis(2-Chloroethoxy)methane	ug/L	20	14	13	71	64		11		
2,4-Dichlorophenol	ug/L	20	15	14	73	68	47-121	7	20	
Naphthalene	ug/L	20	13	12	67	62		8		
Hexachlorobutadiene	ug/L	20	11	10	57	52	22-124	9	20	
4-Chloro-3-methylphenol	ug/L	20	17	16	83	79	52-119	5	20	
2,4,6-Trichlorophenol	ug/L	20	17	15	84	73	50-125	15	20	
2-Chloronaphthalene	ug/L	20	16	15	78	73		6		
Dimethyl phthalate	ug/L	20	18	18	90	88		2		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	20	18	17	90	86		5		
Acenaphthylene	ug/L	20	16	15	82	75		9		
Acenaphthene	ug/L	20	15	14	75	69	47-122	9	20	
2,4-Dinitrophenol	ug/L	20	19	18	93	91		2		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	20	21	20	106	98	57-128	8	20	
4-Nitrophenol	ug/L	20	15	16	75	79		5		
Diethyl phthalate	ug/L	20	19	17	95	87		9		
Fluorene	ug/L	20	19	18	96	88	52-124	9	20	
4-Chlorophenyl Phenyl Ether	ug/L	20	17	16	85	81		5		
2-Methyl-4,6-dinitrophenol	ug/L	20	20	19	99	97		2		
N-Nitrosodiphenylamine	ug/L	20	15	15	74	73		0		
1,2-Diphenylhydrazine	ug/L	20	15	14	73	68		7		
4-Bromophenyl Phenyl Ether	ug/L	20	19	16	94	80		16		
Phenanthrene	ug/L	20	19	18	97	91		7		
Anthracene	ug/L	20	18	17	91	85		6		
Di-n-Butyl Phthalate	ug/L	20	20	19	100	96		4		
Fluoranthene	ug/L	20	19	18	96	92	57-128	4	20	
Pyrene	ug/L	20	18	18	92	90		3		
Butyl benzyl phthalate	ug/L	20	18	19	91	96		6		
Benzo[a]anthracene	ug/L	20	18	19	91	93		2		
Chrysene	ug/L	20	19	19	95	97		3		
bis(2-Ethylhexyl) phthalate	ug/L	20	18	18	92	90	55-135	2	20	
Di-n-octyl Phthalate	ug/L	20	18	18	89	90		2		
Benzo[b]fluoranthene	ug/L	20	21	19	104	96		8		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3713753 3713754

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Benzo[k]fluoranthene	ug/L	20	23	21	116	103		12		
Indeno(1,2,3-cd)pyrene	ug/L	20	19	17	95	86		11		
Dibenzo[a,h]anthracene	ug/L	20	20	17	98	86		12		
Benzo[g,h,i]perylene	ug/L	20	18	16	90	82		9		
Benzdine	ug/L	20	2.1	2.1U	0	0		0		
3,3'-Dichlorobenzidine	ug/L	20	1.1	1.1U	0	0		0		
2-Fluorophenol (S)	%				59	52	31-134	12		
Phenol-d6 (S)	%				46	40	24-120	13		
Nitrobenzene-d5 (S)	%				65	58	38-139	11		
2-Fluorobiphenyl (S)	%				69	65	42-138	6		
2,4,6-Tribromophenol (S)	%				83	82	48-147	1		
p-Terphenyl-d14 (S)	%				93	93	61-154	1		

MATRIX SPIKE SAMPLE: 3713755 Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
N-Nitrosodimethylamine	ug/L	0	20	3.3	16		
Phenol	ug/L	0.96	20	2.1	10	19-106	
bis(2-Chloroethyl)Ether	ug/L	0	20	8.3	42		
2-Chlorophenol	ug/L	0	20	5.7	28		
bis(2-Chloroisopropyl) Ether	ug/L	0	20	8.2	41		
N-Nitrosodi-n-propylamine	ug/L	0	20	9.5	47		
Hexachloroethane	ug/L	0	20	5.0	25	21-115	
Nitrobenzene	ug/L	0	20	8.9	45	45-121	
Isophorone	ug/L	0	20	7.1	36		
2-Nitrophenol	ug/L	1.7	20	11	49		
2,4-Dimethylphenol	ug/L	0	20	0.62	0		
bis(2-Chloroethoxy)methane	ug/L	0	20	7.0	35		
2,4-Dichlorophenol	ug/L	0	20	4.5	22	47-121	
Naphthalene	ug/L	0.31	20	7.3	35		
Hexachlorobutadiene	ug/L	0	20	5.2	26	22-124	
4-Chloro-3-methylphenol	ug/L	0	20	1.3	7	52-119	
2,4,6-Trichlorophenol	ug/L	0	20	8.8	44	50-125	
2-Chloronaphthalene	ug/L	0	20	8.4	42		
Dimethyl phthalate	ug/L	0	20	10	52		
2,6-Dinitrotoluene (2,6-DNT)	ug/L	1.2	20	11	57		
Acenaphthylene	ug/L	0	20	4.0	20		
Acenaphthene	ug/L	0	20	7.9	40	47-122	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE SAMPLE: 3713755

Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L	0	20	15	74		
2,4-Dinitrotoluene (2,4-DNT)	ug/L	0	20	13	63	57-128	
4-Nitrophenol	ug/L	0	20	0.83	0		
Diethyl phthalate	ug/L	0.3	20	11	57		
Fluorene	ug/L	0	20	11	53	52-124	
4-Chlorophenyl Phenyl Ether	ug/L	0	20	9.3	46		
2-Methyl-4,6-dinitrophenol	ug/L	0	20	13	67		
N-Nitrosodiphenylamine	ug/L	0	20	8.3	42		
1,2-Diphenylhydrazine	ug/L	0	20	8.0	40		
4-Bromophenyl Phenyl Ether	ug/L	0	20	10	52		
Phenanthrene	ug/L	0	20	11	56		
Anthracene	ug/L	0.15	20	9.9	49		
Di-n-Butyl Phthalate	ug/L	2.4	20	14	56		
Fluoranthene	ug/L	0	20	11	57	57-128	
Pyrene	ug/L	0.071	20	11	52		
Butyl benzyl phthalate	ug/L	0	20	11	54		
Benzo[a]anthracene	ug/L	0	20	11	55		
Chrysene	ug/L	0	20	11	54		
bis(2-Ethylhexyl) phthalate	ug/L	0.54	20	11	57	55-135	
Di-n-octyl Phthalate	ug/L	0	20	10	52		
Benzo[b]fluoranthene	ug/L	0	20	13	65		
Benzo[k]fluoranthene	ug/L	0	20	14	69		
Indeno(1,2,3-cd)pyrene	ug/L	0	20	12	59		
Dibenzo[a,h]anthracene	ug/L	0	20	12	60		
Benzo[g,h,i]perylene	ug/L	0	20	11	56		
Benzidine	ug/L	0	20	2.1	0		
3,3'-Dichlorobenzidine	ug/L	0	20	1.1	0		
2-Fluorophenol (S)	%	11			15	31-134	J4
Phenol-d6 (S)	%	6			7	24-120	J4
Nitrobenzene-d5 (S)	%	32			32	38-139	J4
2-Fluorobiphenyl (S)	%	31			35	42-138	J4
2,4,6-Tribromophenol (S)	%	35			49	48-147	
p-Terphenyl-d14 (S)	%	36			48	61-154	J4

QC Batch: HPLj/1236

Analysis Method: EPA 547

QC Batch Method: EPA 547

Prepared:

Associated Lab Samples: T2022868001, T2022868002

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3713978

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
Glyphosate	ug/L	5.9	5.9 U

LABORATORY CONTROL SAMPLE & LCSD: 3713979 3713980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
SEMIVOLATILES									
Glyphosate	ug/L	200	210	210	104	104	70-130	0	30

MATRIX SPIKE SAMPLE: 3713981 Original: J2016959001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits Qualifiers
SEMIVOLATILES						
Glyphosate	ug/L	0	200	190	93	70-130

MATRIX SPIKE SAMPLE: 3713982 Original: A2010454004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits Qualifiers
SEMIVOLATILES						
Glyphosate	ug/L	0	200	190	96	70-130

QC Batch: EXTt/2321

Analysis Method: EPA 8081

QC Batch Method: SW-846 3510C

Prepared: 12/15/2020 08:30

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3714561

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
alpha-BHC	ug/L	0.0037	0.0037 U
beta-BHC	ug/L	0.015	0.015 U
delta-BHC	ug/L	0.012	0.012 U
Aldrin	ug/L	0.015	0.015 U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3714561

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Endosulfan I	ug/L	0.0063	0.0063 U
4,4'-DDE	ug/L	0.0069	0.0069 U
Dieldrin	ug/L	0.029	0.029 U
4,4'-DDD	ug/L	0.028	0.028 U
Endosulfan II	ug/L	0.0064	0.0064 U
Endrin Aldehyde	ug/L	0.019	0.019 U
4,4'-DDT	ug/L	0.015	0.015 U
Endosulfan Sulfate	ug/L	0.026	0.026 U
Tetrachloro-m-xylene (S)	%	95	44-124
Decachlorobiphenyl (S)	%	85	48-137

LABORATORY CONTROL SAMPLE & LCSD: 3714562 3714563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
alpha-BHC	ug/L	0.1	0.094	0.094	94	94	54-138	0	30	
beta-BHC	ug/L	0.1	0.12	0.12	122	118	56-136	4	30	
delta-BHC	ug/L	0.1	0.11	0.11	114	111	52-142	3	30	
Aldrin	ug/L	0.1	0.080	0.077	81	77	45-134	4	30	
Endosulfan I	ug/L	0.1	0.10	0.10	103	104	62-126	0	30	
4,4'-DDE	ug/L	0.1	0.10	0.098	100	98	57-135	2	30	
Dieldrin	ug/L	0.1	0.12	0.11	117	115	60-136	2	30	
4,4'-DDD	ug/L	0.1	0.11	0.11	111	109	56-143	2	30	
Endosulfan II	ug/L	0.1	0.11	0.10	107	103	52-135	4	30	
Endrin Aldehyde	ug/L	0.1	0.10	0.098	100	98	51-132	2	30	
4,4'-DDT	ug/L	0.1	0.11	0.11	107	106	51-143	1	30	
Endosulfan Sulfate	ug/L	0.1	0.13	0.12	128	121	62-133	5	30	
Tetrachloro-m-xylene (S)	%				90	90	44-124	0		
Decachlorobiphenyl (S)	%				83	88	48-137	5		

MATRIX SPIKE SAMPLE: 3714564 Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
alpha-BHC	ug/L	0	0.1	0.064	63	54-138	
beta-BHC	ug/L	0	0.1	0.15	88	56-136	
delta-BHC	ug/L	0	0.1	0.13	88	52-142	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE SAMPLE: 3714564

Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	0	0.1	0.15	29	45-134	
Endosulfan I	ug/L	0	0.1	0.10	102	62-126	
4,4'-DDE	ug/L	0	0.1	0.070	59	57-135	
Dieldrin	ug/L	0	0.1	0.29	70	60-136	
4,4'-DDD	ug/L	0	0.1	0.29	47	56-143	
Endosulfan II	ug/L	0	0.1	0.065	45	52-135	
Endrin Aldehyde	ug/L	0	0.1	0.19	92	51-132	
4,4'-DDT	ug/L	0	0.1	0.15	98	51-143	
Endosulfan Sulfate	ug/L	0	0.1	0.26	108	62-133	
Tetrachloro-m-xylene (S)	%	45			44	44-124	
Decachlorobiphenyl (S)	%	49			70	48-137	

QC Batch: EXTt/2322

Analysis Method: SW-846 8082A

QC Batch Method: SW-846 3510C

Prepared: 12/15/2020 08:30

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3714569

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Aroclor 1016 (PCB-1016)	ug/L	0.14	0.14	U
Aroclor 1221 (PCB-1221)	ug/L	0.14	0.14	U
Aroclor 1232 (PCB-1232)	ug/L	0.14	0.14	U
Aroclor 1242 (PCB-1242)	ug/L	0.14	0.14	U
Aroclor 1248 (PCB-1248)	ug/L	0.14	0.14	U
Aroclor 1254 (PCB-1254)	ug/L	0.14	0.14	U
Aroclor 1260 (PCB-1260)	ug/L	0.14	0.14	U
Tetrachloro-m-xylene (S)	%	95	61-119	
Decachlorobiphenyl (S)	%	85	44-136	

LABORATORY CONTROL SAMPLE & LCSD: 3714570

3714571

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Aroclor 1016 (PCB-1016)	ug/L	1	1.2	1.1	117	108	46-129	8		
Aroclor 1221 (PCB-1221)	ug/L		0.14	0.14U				0		
Aroclor 1232 (PCB-1232)	ug/L		0.14	0.14U				0		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3714570 3714571

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Aroclor 1242 (PCB-1242)	ug/L		0.14	0.14U				0		
Aroclor 1248 (PCB-1248)	ug/L		0.14	0.14U				0		
Aroclor 1254 (PCB-1254)	ug/L		0.14	0.14U				0		
Aroclor 1260 (PCB-1260)	ug/L	1	1.0	1.2	103	119	45-134	14		
Tetrachloro-m-xylene (S)	%				86	105	61-119	20		
Decachlorobiphenyl (S)	%				84	91	44-136	7		

MATRIX SPIKE SAMPLE: 3714572 Original: T2022868001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Aroclor 1016 (PCB-1016)	ug/L	0	1	1.4	116	46-129	
Aroclor 1221 (PCB-1221)	ug/L			1.4			
Aroclor 1232 (PCB-1232)	ug/L			1.4			
Aroclor 1242 (PCB-1242)	ug/L			1.4			
Aroclor 1248 (PCB-1248)	ug/L			1.4			
Aroclor 1254 (PCB-1254)	ug/L			1.4			
Aroclor 1260 (PCB-1260)	ug/L	0	1	1.4	85	45-134	
Tetrachloro-m-xylene (S)	%	45			45	61-119	J4
Decachlorobiphenyl (S)	%	49			46	44-136	

QC Batch: WCAg/5155

Analysis Method: SM 5540 C

QC Batch Method: SM 5540 C

Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3714711

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
MBAS,as LAS,mol.wt.348	mg/L	0.040	0.040	U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE: 3714712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
MBAS,as LAS,mol.wt.348	mg/L	0.4	0.41	103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3714713 3714714 Original: M2006742004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY											
MBAS,as LAS,mol.wt.348	mg/L	0.29	1	1.2	1.2	96	96	40-139	0	20	

QC Batch: WCAI/8241 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3715706

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Suspended Solids	mg/L	1.0	1.0	U

LABORATORY CONTROL SAMPLE: 3715707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Suspended Solids	mg/L	200	210	106	85-115	

SAMPLE DUPLICATE: 3715708 Original: T2022821003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Suspended Solids	mg/L	2600	2600	0	10	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

QC Batch: HPLj/1238 Analysis Method: EPA 531.1
QC Batch Method: EPA 531.1 Prepared:
Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3716135

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
Oxamyl	ug/L	1.8	1.8 U
Carbofuran	ug/L	0.51	0.51 U

LABORATORY CONTROL SAMPLE & LCSD: 3716136 3716137

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
SEMIVOLATILES									
Oxamyl	ug/L	20	20	20	99	102	80-120	3	20
Carbofuran	ug/L	20	22	22	110	110	80-120	0	20

MATRIX SPIKE SAMPLE: 3716138 Original: J2017416001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits Qualifiers
SEMIVOLATILES						
Oxamyl	ug/L	0	20	11	54	80-120
Carbofuran	ug/L	0	20	21	105	80-120

QC Batch: WCA/8270 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Prepared:
Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3716749

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Chemical Oxygen Demand	mg/L	20	20 U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE: 3716750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chemical Oxygen Demand	mg/L	500	490	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3716752 3716753 Original: T2022867003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chemical Oxygen Demand	mg/L	28	500	570	570	108	108	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3716756 3716757 Original: T2023019001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chemical Oxygen Demand	mg/L	660	500	1200	1200	103	103	90-110	0	10	

QC Batch: EXTj/2726

Analysis Method: EPA 525.2

QC Batch Method: EPA 525.2

Prepared: 12/16/2020 09:00

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3717028

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Simazine	ug/L	0.060	0.060	U
Atrazine	ug/L	0.090	0.090	U
Alachlor	ug/L	0.15	0.15	U
Di(2-ethylhexyl) adipate	ug/L	0.50	0.50	U
bis(2-Ethylhexyl) phthalate	ug/L	0.50	0.50	U
Benzo[a]pyrene	ug/L	0.015	0.015	U
p-Terphenyl-d14 (S)	%	101	70-130	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3717029 3717030

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Simazine	ug/L	2	1.6	1.6	79	79	70-130	1	30	
Atrazine	ug/L	2	1.6	1.6	81	82	70-130	1	30	
Alachlor	ug/L	2	1.8	1.7	89	86	70-130	4	30	
Di(2-ethylhexyl) adipate	ug/L	2	1.7	1.7	84	83	70-130	1	30	
bis(2-Ethylhexyl) phthalate	ug/L	2	1.7	1.6	83	82	70-130	1	30	
Benzo[a]pyrene	ug/L	2	2.0	1.9	99	97	70-130	2	30	
p-Terphenyl-d14 (S)	%				101	102	70-130	1		

MATRIX SPIKE SAMPLE: 3717041 Original: J2017242002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Simazine	ug/L	0	2	1.9	95	70-130	
Atrazine	ug/L	0	2	2.0	98	70-130	
Alachlor	ug/L	0	2	2.4	119	70-130	
Di(2-ethylhexyl) adipate	ug/L	0	2	2.5	125	70-130	
bis(2-Ethylhexyl) phthalate	ug/L	6.8	2	10	161	70-130	3
Benzo[a]pyrene	ug/L	0	2	2.5	126	70-130	
p-Terphenyl-d14 (S)	%	101			114	70-130	

QC Batch: GCSj/2198

Analysis Method: EPA 515.3

QC Batch Method: EPA 515.3

Prepared: 12/16/2020 08:30

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3717427

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Dalapon	ug/L	0.90	0.90	U
2,4-D	ug/L	0.095	0.095	U
Pentachlorophenol	ug/L	0.038	0.038	U
Silvex (2,4,5-TP)	ug/L	0.090	0.090	U
Picloram	ug/L	0.090	0.090	U
Dinoseb	ug/L	0.18	0.18	U
2,4-Dichlorophenylacetic acid (S)	%	112	70-130	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3717428 3717429

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Dalapon	ug/L	25	21	23	83	92	70-130	9	30	
2,4-D	ug/L	12	12	13	92	102	70-130	10	30	
Pentachlorophenol	ug/L	2.5	2.6	2.9	104	115	70-130	11	30	
Silvex (2,4,5-TP)	ug/L	5	4.4	4.6	88	91	70-130	4	30	
Picloram	ug/L	2.5	2.0	2.1	80	84	70-130	6	30	
Dinoseb	ug/L	12	10	11	83	90	70-130	8	30	
2,4-Dichlorophenylacetic acid (S)	%				126	117	70-130	8		

MATRIX SPIKE SAMPLE: 3717430 Original: J2017248001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Dalapon	ug/L	0	25	28	113	70-130	
2,4-D	ug/L	0	12	15	119	70-130	
Pentachlorophenol	ug/L	0	2.5	3.2	126	70-130	
Silvex (2,4,5-TP)	ug/L	0	5	6.3	126	70-130	
Picloram	ug/L	0	2.5	2.6	105	70-130	
Dinoseb	ug/L	0	12	13	108	70-130	
2,4-Dichlorophenylacetic acid (S)	%	125			112	70-130	

QC Batch: EXTt/2332

Analysis Method: EPA 504.1

QC Batch Method: EPA 504.1

Prepared: 12/16/2020 15:30

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3717519

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.012	0.012	U
1,2-Dibromo-3-Chloropropane	ug/L	0.017	0.017	U
Tetrachloro-m-xylene (S)	%	118	64-150	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE & LCSD: 3717520 3717521

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.32	0.28	128	112	70-130	14	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.28	0.28	112	110	70-130	2	30	
Tetrachloro-m-xylene (S)	%				127	120	64-150	6		

MATRIX SPIKE SAMPLE: 3718030 Original: T2023117001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.24	0.22	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.24	0.31	127	70-130	
Tetrachloro-m-xylene (S)	%	110			108	64-150	

QC Batch: WCA/8284

Analysis Method: SM 4500-CN-E

QC Batch Method: SM 4500-CN-E

Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3717860

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Cyanide	mg/L	0.0040	0.0040	U

LABORATORY CONTROL SAMPLE: 3717861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Cyanide	mg/L	0.04	0.040	100	90-110	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3717864 3717865 Original: J2016955001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Cyanide	mg/L	0.0024	0.04	0.040	0.039	99	97	90-110	1	10	

QC Batch: GCSI/1979

Analysis Method: EPA 552.2

QC Batch Method: EPA 552.2

Prepared: 12/17/2020 10:15

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3718321

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Chloroacetic Acid	ug/L	0.98	0.98	U
Bromoacetic Acid	ug/L	0.41	0.41	U
Dichloroacetic Acid	ug/L	0.42	0.42	U
Trichloroacetic Acid	ug/L	0.94	0.94	U
Dibromoacetic Acid	ug/L	0.74	0.74	U
Total Haloacetic Acids (HAA5)	ug/L	0.98	0.98	U
2,3-Dibromopropionic Acid (S)	%	93	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 3718322 3718323

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Chloroacetic Acid	ug/L	20	20.89	20.28	104	101	70-130	3	30	
Bromoacetic Acid	ug/L	20	21.75	23.25	109	116	70-130	7	30	
Dichloroacetic Acid	ug/L	20	20.68	24.75	103	124	70-130	18	30	
Trichloroacetic Acid	ug/L	20	20.07	20.29	100	101	70-130	1	30	
Dibromoacetic Acid	ug/L	20	19.70	19.45	98	97	70-130	1	30	
Total Haloacetic Acids (HAA5)	ug/L		103.08	108.01				5	30	
2,3-Dibromopropionic Acid (S)	%				92	96	70-130	3	30	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE SAMPLE: 3718325

Original: A2010424002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Chloroacetic Acid	ug/L	0	20	19.78	99	70-130	
Bromoacetic Acid	ug/L	0	20	24.88	124	70-130	
Dichloroacetic Acid	ug/L	9.14	20	27.05	90	70-130	
Trichloroacetic Acid	ug/L	6.29	20	25.88	98	70-130	
Dibromoacetic Acid	ug/L	1.55	20	21.04	97	70-130	
Total Haloacetic Acids (HAA5)	ug/L			118.63			
2,3-Dibromopropionic Acid (S)	%	98			100	70-130	

QC Batch: DGMj/2676

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Prepared: 12/18/2020 04:34

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3719441

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Manganese	mg/L	0.0010	0.0010	U
Copper	mg/L	0.0010	0.0010	U
Selenium	mg/L	0.0012	0.0012	U
Silver	mg/L	0.00050	0.00050	U
Cadmium	mg/L	0.00025	0.00025	U
Thallium	mg/L	0.00025	0.00025	U
Lead	mg/L	0.00050	0.00050	U
Uranium	ug/L	0.20	0.20	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Arsenic	mg/L	0.00025	0.00025	U
Antimony	mg/L	0.0010	0.0010	U

LABORATORY CONTROL SAMPLE: 3719442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

LABORATORY CONTROL SAMPLE: 3719442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	mg/L	0.02	0.020	100	85-115	
Copper	mg/L	0.02	0.020	101	85-115	
Selenium	mg/L	0.025	0.022	87	85-115	
Silver	mg/L	0.01	0.0099	99	85-115	
Cadmium	mg/L	0.005	0.0050	99	85-115	
Thallium	mg/L	0.005	0.0047	94	85-115	
Lead	mg/L	0.01	0.0094	94	85-115	
Uranium	ug/L	4	3.8	96	85-115	

LABORATORY CONTROL SAMPLE: 3719442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Arsenic	mg/L	0.005	0.0048	96	85-115	
Antimony	mg/L	0.02	0.020	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3719443 3719444 Original: J2016768001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Manganese	mg/L	0.0048	0.02	0.023	0.024	91	97	70-130	5	20	
Copper	mg/L	0.0093	0.02	0.040	0.028	154	95	70-130	35	20	
Arsenic	mg/L	4.1e-005	0.005	0.00025	0.00025U	1	1	70-130	48	20	
Selenium	mg/L	0.0002	0.025	0.021	0.021	84	85	70-130	1	20	
Silver	mg/L	0	0.01	0.0095	0.0098	95	98	70-130	3	20	
Cadmium	mg/L	1.5e-006	0.005	0.0049	0.0050	98	100	70-130	2	20	
Antimony	mg/L	4.2e-005	0.02	0.013	0.015	64	73	70-130	13	20	
Thallium	mg/L	4.6e-006	0.005	0.0048	0.0048	96	96	70-130	0	20	
Lead	mg/L	0.00065	0.01	0.010	0.010	95	97	70-130	1	20	
Uranium	ug/L	0.0028	4	4.0	4.1	101	104	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3719445 3719446 Original: M2006798001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Manganese	mg/L	0.0016	0.02	0.020	0.020	93	93	70-130	1	20	
Copper	mg/L	5.4e-005	0.02	0.020	0.020	100	98	70-130	2	20	

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3719445 3719446 Original: M2006798001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
Selenium	mg/L	0	0.025	0.022	0.021	89	85	70-130	5	20	
Silver	mg/L	0	0.01	0.0099	0.0097	99	97	70-130	3	20	
Cadmium	mg/L	0	0.005	0.0050	0.0049	101	98	70-130	3	20	
Antimony	mg/L	0	0.02	0.011	0.014	57	70	70-130	21	20	
Thallium	mg/L	0	0.005	0.0047	0.0047	94	94	70-130	0	20	
Lead	mg/L	0	0.01	0.0096	0.0094	96	94	70-130	2	20	
Uranium	ug/L	0	4	3.8	3.7	96	94	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3719445 3719446 Original: M2006798001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Arsenic	mg/L	5e-007	0.005	0.0049	0.0046	99	92	70-130	7	20	

QC Batch: MSVt/3042

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3720305

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Vinyl Chloride	ug/L	0.29	0.29	U
1,1-Dichloroethylene	ug/L	0.22	0.22	U
Methylene Chloride	ug/L	0.44	0.44	U
trans-1,2-Dichloroethylene	ug/L	0.21	0.21	U
cis-1,2-Dichloroethylene	ug/L	0.27	0.27	U
1,2-Dichloroethane	ug/L	0.24	0.24	U
1,1,1-Trichloroethane	ug/L	0.29	0.29	U
Carbon Tetrachloride	ug/L	0.25	0.25	U
Benzene	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.26	0.26	U
Trichloroethene	ug/L	0.14	0.14	U
1,1,2-Trichloroethane	ug/L	0.27	0.27	U
Toluene	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.42	0.42	U
Chlorobenzene	ug/L	0.36	0.36	U
Ethylbenzene	ug/L	0.31	0.31	U
Styrene	ug/L	0.25	0.25	U

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3720305

Parameter	Units	Blank Result	Reporting Limit Qualifiers
1,4-Dichlorobenzene	ug/L	0.33	0.33 U
1,2-Dichlorobenzene	ug/L	0.39	0.39 U
1,2,4-Trichlorobenzene	ug/L	0.44	0.44 U
Xylene (Total)	ug/L	0.44	0.44 U
1,2-Dichloroethane-d4 (S)	%	103	70-130
Toluene-d8 (S)	%	98	70-130
Bromofluorobenzene (S)	%	101	70-130

LABORATORY CONTROL SAMPLE & LCSD: 3720306 3720307

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Vinyl Chloride	ug/L	20	18	19	88	97	70-130	10	30	
1,1-Dichloroethylene	ug/L	20	18	20	91	100	70-130	10	30	
Methylene Chloride	ug/L	20	22	24	110	120	70-130	8	30	
trans-1,2-Dichloroethylene	ug/L	20	19	22	96	111	70-130	15	30	
cis-1,2-Dichloroethylene	ug/L	20	20	24	99	120	70-130	19	30	
1,2-Dichloroethane	ug/L	20	21	26	104	129	70-130	22	30	
1,1,1-Trichloroethane	ug/L	20	20	22	100	112	70-130	12	30	
Carbon Tetrachloride	ug/L	20	20	23	100	113	70-130	13	30	
Benzene	ug/L	20	20	24	99	118	70-130	18	30	
1,2-Dichloropropane	ug/L	20	21	25	104	126	70-130	19	30	
Trichloroethene	ug/L	20	19	23	95	116	70-130	20	30	
1,1,2-Trichloroethane	ug/L	20	21	26	103	128	70-130	22	30	
Toluene	ug/L	20	20	24	101	118	70-130	15	30	
Tetrachloroethylene (PCE)	ug/L	20	19	22	97	109	70-130	12	30	
Chlorobenzene	ug/L	20	19	23	97	115	70-130	17	30	
Ethylbenzene	ug/L	20	20	23	99	117	70-130	17	30	
Styrene	ug/L	20	19	23	96	116	70-130	19	30	
1,4-Dichlorobenzene	ug/L	20	19	22	93	108	70-130	16	30	
1,2-Dichlorobenzene	ug/L	20	18	22	91	113	70-130	21	30	
1,2,4-Trichlorobenzene	ug/L	20	18	22	89	108	70-130	19	30	
Xylene (Total)	ug/L	60	60	70	100	117	70-130	16	30	
1,2-Dichloroethane-d4 (S)	%				104	100	70-130	4		
Toluene-d8 (S)	%				98	98	70-130	1		
Bromofluorobenzene (S)	%				99	97	70-130	3		

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

MATRIX SPIKE SAMPLE: 3720308

Original: G2011581001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Vinyl Chloride	ug/L	0	20	23	115	70-130	
1,1-Dichloroethylene	ug/L	0	20	26	130	70-130	
Methylene Chloride	ug/L	0	20	22	111	70-130	
trans-1,2-Dichloroethylene	ug/L	0	20	24	120	70-130	
cis-1,2-Dichloroethylene	ug/L	0	20	24	118	70-130	
1,2-Dichloroethane	ug/L	0	20	25	125	70-130	
1,1,1-Trichloroethane	ug/L	0	20	25	127	70-130	
Carbon Tetrachloride	ug/L	0	20	26	129	70-130	
Benzene	ug/L	0	20	24	122	70-130	
1,2-Dichloropropane	ug/L	0	20	25	124	70-130	
Trichloroethene	ug/L	0	20	22	111	70-130	
1,1,2-Trichloroethane	ug/L	0	20	24	119	70-130	
Toluene	ug/L	0	20	24	121	70-130	
Tetrachloroethylene (PCE)	ug/L	0	20	23	117	70-130	
Chlorobenzene	ug/L	0	20	23	116	70-130	
Ethylbenzene	ug/L	0	20	24	120	70-130	
Styrene	ug/L	0	20	23	114	70-130	
1,4-Dichlorobenzene	ug/L	0	20	22	110	70-130	
1,2-Dichlorobenzene	ug/L	0	20	22	112	70-130	
1,2,4-Trichlorobenzene	ug/L	0	20	21	105	70-130	
Xylene (Total)	ug/L	0	60	72	119	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
Toluene-d8 (S)	%				97	70-130	
Bromofluorobenzene (S)	%				100	70-130	

QC Batch: MSVt/3043

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Prepared:

Associated Lab Samples: T2022868001, T2022868002

METHOD BLANK: 3720322

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloroform	ug/L	0.32	0.32	U
Bromodichloromethane	ug/L	0.42	0.42	U
Dibromochloromethane	ug/L	0.37	0.37	U
Bromoform	ug/L	0.45	0.45	U
Total Trihalomethanes	ug/L	0.45	0.45	U
1,2-Dichloroethane-d4 (S)	%	102	70-130	
Toluene-d8 (S)	%	98	70-130	

Report ID: 1014660

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3720322

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Bromofluorobenzene (S)	%	105	70-130

LABORATORY CONTROL SAMPLE & LCSD: 3720323 3720324

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
VOLATILES									
Chloroform	ug/L	20	20.28	18.72	101	94	80-105	8	15
Bromodichloromethane	ug/L	20	20.80	18.44	104	92	80-105	12	15
Dibromochloromethane	ug/L	20	20.48	20.84	102	104	80-105	2	15
Bromoform	ug/L	20	19.20	19.64	96	98	80-105	2	15
Total Trihalomethanes	ug/L		80.76	77.64				4	
1,2-Dichloroethane-d4 (S)	%				102	98	70-130	4	
Toluene-d8 (S)	%				98	98	70-130	1	
Bromofluorobenzene (S)	%				101	101	70-130	0	

MATRIX SPIKE SAMPLE: 3720325 Original: T2023433001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits Qualifiers
VOLATILES						
Chloroform	ug/L	0	20	18.26	91	75-125
Bromodichloromethane	ug/L	0	20	17.17	86	75-125
Dibromochloromethane	ug/L	0	20	20.90	105	75-125
Bromoform	ug/L	0	20	18.65	93	75-125
Total Trihalomethanes	ug/L			74.98		
1,2-Dichloroethane-d4 (S)	%				98	70-130
Toluene-d8 (S)	%				97	70-130
Bromofluorobenzene (S)	%				98	70-130

QC Batch: WCAI/8377 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: T2022868001, T2022868002

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QUALITY CONTROL DATA

Workorder: T2022868 SELF Plant Effluent Semi

METHOD BLANK: 3722446

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Fluoride	mg/L	0.20	0.20	U
Chloride	mg/L	1.0	1.0	U
Sulfate	mg/L	1.0	1.0	U

LABORATORY CONTROL SAMPLE: 3722447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Fluoride	mg/L	2.5	2.7	109	90-110	
Chloride	mg/L	25	26	103	90-110	
Sulfate	mg/L	25	26	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722448 3722449 Original: S2003268003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.042	2	2.3	2.3	116	114	90-110	2	10	
Chloride	mg/L	4.1	20	27	27	115	113	90-110	1	10	
Sulfate	mg/L	0.58	20	24	24	118	118	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722450 3722451 Original: T2022517001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.18	2	2.5	2.5	124	124	90-110	1	10	
Chloride	mg/L	59	20	81	81	108	107	90-110	0	10	
Sulfate	mg/L	18	20	42	42	118	117	90-110	0	10	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: T2022868 SELF Plant Effluent Semi

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
- [3] This compound's response exceeds the response of the highest standard in the initial calibration range of the instrument

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2022868001	Leachate Effluent-Semi Annual	EPA 549.2	EXTj/2702	EPA 549.2	HPLj/1235
T2022868002	Field Blank	EPA 549.2	EXTj/2702	EPA 549.2	HPLj/1235
T2022868001	Leachate Effluent-Semi Annual	EPA 548.1	EXTj/2703	EPA 548.1	MSSj/1710
T2022868002	Field Blank	EPA 548.1	EXTj/2703	EPA 548.1	MSSj/1710
T2022868001	Leachate Effluent-Semi Annual			SM 2150 B	WCA/8137
T2022868002	Field Blank			SM 2150 B	WCA/8137
T2022868001	Leachate Effluent-Semi Annual			SM 3500-CR D	WCA/8145
T2022868002	Field Blank			SM 3500-CR D	WCA/8145
T2022868001	Leachate Effluent-Semi Annual			SM 2540 C	WCA/8146
T2022868002	Field Blank			SM 2540 C	WCA/8146
T2022868001	Leachate Effluent-Semi Annual			SM 5210B	WCA/8153
T2022868002	Field Blank			SM 5210B	WCA/8153
T2022868001	Leachate Effluent-Semi Annual			SM 2120 B	WCA/8164
T2022868002	Field Blank			SM 2120 B	WCA/8164
T2022868001	Leachate Effluent-Semi Annual			SM 4500NO3-F	WCA/8168
T2022868002	Field Blank			SM 4500NO3-F	WCA/8168
T2022868001	Leachate Effluent-Semi Annual	EPA 200.7	DGMt/2727	EPA 200.7	ICPt/1954
T2022868002	Field Blank	EPA 200.7	DGMt/2727	EPA 200.7	ICPt/1954
T2022868001	Leachate Effluent-Semi Annual	EPA 245.1	DGMt/2730	EPA 245.1	CVAt/1473
T2022868002	Field Blank	EPA 245.1	DGMt/2730	EPA 245.1	CVAt/1473

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2022868001	Leachate Effluent-Semi Annual			SM 4500H+B	WCAt/8176
T2022868002	Field Blank			SM 4500H+B	WCAt/8176
T2022868001	Leachate Effluent-Semi Annual	EPA 508	EXTj/2710	EPA 508	GCSj/2195
T2022868002	Field Blank	EPA 508	EXTj/2710	EPA 508	GCSj/2195
T2022868001	Leachate Effluent-Semi Annual	SW-846 5030B	MSVt/3022	SW-846 8260B	MSVt/3023
T2022868002	Field Blank	SW-846 5030B	MSVt/3022	SW-846 8260B	MSVt/3023
T2022868003	Travel Blank	SW-846 5030B	MSVt/3022	SW-846 8260B	MSVt/3023
T2022868001	Leachate Effluent-Semi Annual	SW-846 3510C	EXTt/2319	SW-846 8270C	MSSt/1574
T2022868002	Field Blank	SW-846 3510C	EXTt/2319	SW-846 8270C	MSSt/1574
T2022868001	Leachate Effluent-Semi Annual			EPA 547	HPLj/1236
T2022868002	Field Blank			EPA 547	HPLj/1236
T2022868001	Leachate Effluent-Semi Annual	SW-846 3510C	EXTt/2321	EPA 8081	GCSt/1973
T2022868002	Field Blank	SW-846 3510C	EXTt/2321	EPA 8081	GCSt/1973
T2022868001	Leachate Effluent-Semi Annual	SW-846 3510C	EXTt/2322	SW-846 8082A	GCSt/1974
T2022868002	Field Blank	SW-846 3510C	EXTt/2322	SW-846 8082A	GCSt/1974
T2022868001	Leachate Effluent-Semi Annual			SM 5540 C	WCAg/5155
T2022868002	Field Blank			SM 5540 C	WCAg/5155
T2022868001	Leachate Effluent-Semi Annual			SM 2540D	WCAt/8241
T2022868002	Field Blank			SM 2540D	WCAt/8241
T2022868001	Leachate Effluent-Semi Annual			EPA 531.1	HPLj/1238

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2022868002	Field Blank			EPA 531.1	HPLj/1238
T2022868001	Leachate Effluent-Semi Annual			EPA 410.4	WCAI/8270
T2022868002	Field Blank			EPA 410.4	WCAI/8270
T2022868001	Leachate Effluent-Semi Annual	EPA 525.2	EXTj/2726	EPA 525.2	MSSj/1716
T2022868002	Field Blank	EPA 525.2	EXTj/2726	EPA 525.2	MSSj/1716
T2022868001	Leachate Effluent-Semi Annual	EPA 515.3	GCSj/2198	EPA 515.3	GCSj/2199
T2022868002	Field Blank	EPA 515.3	GCSj/2198	EPA 515.3	GCSj/2199
T2022868001	Leachate Effluent-Semi Annual	EPA 504.1	EXTt/2332	EPA 504.1	GCSt/1980
T2022868002	Field Blank	EPA 504.1	EXTt/2332	EPA 504.1	GCSt/1980
T2022868001	Leachate Effluent-Semi Annual			SM 4500-CN-E	WCAI/8284
T2022868002	Field Blank			SM 4500-CN-E	WCAI/8284
T2022868001	Leachate Effluent-Semi Annual	EPA 552.2	GCSt/1979	EPA 552.2	GCSt/1984
T2022868002	Field Blank	EPA 552.2	GCSt/1979	EPA 552.2	GCSt/1984
T2022868001	Leachate Effluent-Semi Annual	EPA 200.8	DGMj/2676	EPA 200.8	ICMj/1602
T2022868002	Field Blank	EPA 200.8	DGMj/2676	EPA 200.8	ICMj/1602
T2022868001	Leachate Effluent-Semi Annual			EPA 524.2	MSVt/3042
T2022868002	Field Blank			EPA 524.2	MSVt/3042
T2022868001	Leachate Effluent-Semi Annual			EPA 524.2	MSVt/3043
T2022868002	Field Blank			EPA 524.2	MSVt/3043

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2022868 SELF Plant Effluent Semi

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2022868001	Leachate Effluent-Semi Annual			EPA 300.0	WCAt/8377
T2022868002	Field Blank			EPA 300.0	WCAt/8377
T2022868001	Leachate Effluent-Semi Annual	Field Measurements	FLDt/	Field Measurements	FLDt/

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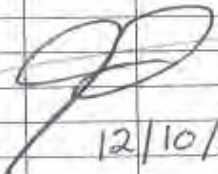
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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent		DATE 12/10/2020	

PURGING DATA

PURGING DATA											
WELL DIAMETER (inches) N/A		TUBING DIAMETER (inches) N/A		WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft		STATIC DEPTH TO WATER (feet) N/A		PURGE PUMP TYPE OR BAILER: Valve			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A		FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A		PURGING INITIATED AT N/A		PURGING ENDED AT N/A		TOTAL VOLUME PURGED (gallons): N/A			
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	N/A	N/A	N/A	N/A	7.65	22.4	15018	3.20	N/A	Brown	Leachate
 12/10/2020											
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" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)											

SAMPLING DATA

[illegible]

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)

2. **STABILIZATION CRITERIA:** FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE TABLE FS 2200-2):
pH: ± 0.2 units; **Temperature:** ± 0.2 °C; **Specific Conductance:** $\pm 5\%$; **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater); **Turbidity:** all readings ≤ 20 NTU, optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 12/10/2020	

PURGING DATA

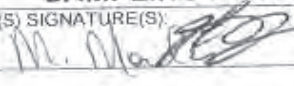
WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: N/A
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (N/A feet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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1000											
											

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" = 0.0028; 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: Grayson, Morales				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1000		SAMPLING ENDED AT: 1015	
PUMP OR TUBING DEPTH IN WELL (feet): N/A				TUBING MATERIAL CODE: N/A				FIELD-FILTERED: Y ☒ N ☐		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☒ N (replaced) ☐				DUPLICATE: Y ☒ N ☐							

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

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS**

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

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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



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Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The matrix spike recoveries of Fluoride, Chloride, and Sulfate for S2003268003 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 high bias in this matrix. No further corrective action was required.

The matrix spike recoveries of Sulfate for T2022517001 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 high bias in this matrix. No further corrective action was required.

Internal Standard:

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution: All acceptance criteria were met.



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Duplicates: All acceptance criteria were met.



Advanced
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Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: EPA 8081
Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for the multiple analytes in the closing Continuing Calibration Verification(CCV). The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The matrix spike recoveries of multiple analytes for T2022868001 were outside control criteria because of matrix interference. The sample had a brown hue and required a dilution. The extractionist also noted a heavy emulsion in the parent and MS which is known to negatively affect yields. As a result, accurate quantitation was not possible. The results are qualified to indicate matrix interference.

Internal Standard: All acceptance criteria were met.

Samples: The sample T2023080001 and the Matrix Spike (MS) were diluted prior to instrumental analysis. The extracts were highly colored which indicated the need to perform a dilution prior to injection into the instrument. The chromatogram has visible matrix interference preventing the samples from being analyzed at a lower dilution.



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Other:

Serial Dilution:

Duplicates:



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Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 200.8

Preparation: EPA 200.8

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The matrix spike recoveries of Cu, As, and Sb for J2016768001 were outside control criteria due to the presence of target analytes in the sample. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The affected sample is qualified to indicate matrix interference.

Internal Standard:

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution: Due to non-target background analytes present, the proper quantitation of the internal standard in J2016911003 and T2022868001 was obstructed. In order to separate out and return the internal standard to within acceptance limits, this sample was analyzed at a dilution.

Duplicates: All acceptance criteria were met.



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 508
Preparation: EPA 508

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: The control criteria for the following surrogates in T2022868001; J2017034001; J2017091001 are not applicable: Decachlorobiphenyl. The analysis of the sample required a dilution, which results in an undetected surrogate concentration. The surrogate(s) were qualified as being diluted out.

The control criteria for Decachlorobiphenyl in J2016959001 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

Spikes: All acceptance criteria were met.

Internal Standard:

Samples: T2022868001; J2017034001; J2017091001 were Copper cleaned as per EPA method 3660b to remove matrix interferences.

The samples T2022868001; J2017034001; J2017091001 were diluted prior to instrumental analysis. The extracts were highly colored and viscous which indicated the need to perform a dilution prior to injection into the instrument.



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Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 547

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for Glyphosate in Continuing Calibration Verification (CCV) standards for analytical batch HPLj:1236, indicating increased sensitivity. The client samples reported in this batch did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes All acceptance criteria were met.

Internal Standard:

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 525.2
Preparation: EPA 525.2

IV. Preparation

Due to difficult matrix that clogged the SPE cartridge during the extraction process only 100mL of T2022868001 sample volume could be extracted. As a result the MDL for all analytes for this sample are elevated.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Spikes: The results for bis(2-ethylhexyl) phthalate have been estimated in the matrix spike for J2017242002 because the concentration exceeded the instrument calibration range. The results were reported within the instrument calibration range in the parent sample. The results in the Matrix QC are qualified accordingly.
Internal Standard: All acceptance criteria were met.
Samples: Due to difficult matrix that clogged the SPE cartridge during the extraction process only 100mL of T2022868001s sample volume could be extracted. As a result the MDL for all analytes for this sample are elevated.
Other:
Serial Dilution:
Duplicates:



Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: SW-846 8082A
Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for aroclor 1260 in the closing Continuing Calibration Verification (CCV). The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: The lower control criterion was exceeded for the following surrogate in T2022868001 and the Matrix Spike (MS) due to matrix interference: Tetrachloro-m-xylene. The sample had a brown hue and required a dilution prior to analysis. The extractionist noted a heavy emulsion formed in the parent and MS which is known to negatively affect yields. The sample was qualified for matrix interference. No further corrective action was required.

Spikes: All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: The sample T2023080001 and the Matrix Spike (MS) were diluted prior to instrumental analysis. The extracts were highly colored which indicated the need to perform a dilution prior to injection into the instrument. The chromatogram has visible matrix interference preventing the samples from being analyzed at a lower dilution.



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Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 549.2

Preparation: EPA 549.2

IV. Preparation

The method detection limit (MDL) for T2022868001 was elevated due to sample matrix. The sample matrix clogged the cartridge during the extraction procedure; therefore, only 30mL (instead of the typical 1000mL) could be extracted.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The matrix spike (MS) recovery of Diquat for J2016947001 was outside control criteria at 43% (criteria 70-130%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

The matrix spike (MS) recovery of Diquat for J2016959001 was outside control criteria at 1% (criteria 70-130%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

Internal Standard:

Samples: Sample analyses proceeded normally.



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Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 245.1

Preparation: EPA 245.1

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The matrix spike (MS) and matrix spike duplicate (MSD) recoveries of Mercury for T2022871003 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action is required.

Internal Standard:

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 548.1

Preparation: EPA 548.1

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The matrix spike (MS) recoveries of Endothall for J2016959001 were outside control criteria ((at 60%) range 63-131%). Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The offending analyte was not detected in the client sample. The data were qualified accordingly.

Internal Standard: All acceptance criteria were met.

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: SW-846 8270C
Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: The control criteria for the surrogates in T2023029001 and the Matrix Spike (MS) are not applicable. As recorded in the extraction logbook, the samples formed heavy emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

The lower control criterion was exceeded for the following surrogateS in t2022868002: 2-fluorobiphenyl and p-terphenyl-d6. The quality of the sample data is not significantly affected as internal standard area counts met criteria. No further corrective action is required.

Spikes The matrix spike (MS) recoveries of multiple analytes for T0222868001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The extractionist noted that the parent and MS formed heavy emulsions, which are known to negatively affect yield. The affected sample is qualified to indicate matrix interference.

Internal Standard: All acceptance criteria were met.



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Samples: Sample analyses proceeded normally.

Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 531.1
Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for Aldicarb in Continuing Calibration Verification (CCV) standards for analytical batch HPLj:1238, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes The spike recovery of Aldicarb for the Laboratory Control Sample (LCS) was outside the upper control criterion at 128% (criteria 80-120%). The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The upper control criterion was exceeded for the following analyte in the matrix spike for analytical batch HPLj:1238: Aldicarb. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

Internal Standard: All acceptance criteria were met.

Samples: Sample analyses proceeded normally.



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Other:

Serial Dilution:

Duplicates:



Advanced
Environmental Laboratories, Inc.

Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 531.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for Aldicarb in Continuing Calibration Verification (CCV) standards for analytical batch HPLj:1238, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates:

Spikes



Advanced
Environmental Laboratories, Inc.

The spike recovery of Aldicarb for the Laboratory Control Sample (LCS) was outside the upper control criterion at 128% (criteria 80-120%). The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The upper control criterion was exceeded for the following analyte in the matrix spike for analytical batch HPLj:1238: Aldicarb. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

The matrix spike recoveries of Oxamyl for J2017416001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required..

Internal Standard: All acceptance criteria were met.

Samples: Sample analyses proceeded normally.

Other:

Serial Dilution:

Duplicates:



Work Order: T2022868
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent Semi

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 200.7
Preparation: EPA 200.7

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Spikes: The matrix spike recoveries of Al and Na for T2022423004 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.
Internal Standard: All acceptance criteria were met.
Samples: All acceptance criteria were met.
Other: All acceptance criteria were met.
Serial Dilution: All acceptance criteria were met.
Duplicates: All acceptance criteria were met.



Report Date: December 24, 2020

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2022868001
Leachate Eff
Sample Collection: 12-10-20/1030
Lab ID No: 20.16621
Lab Custody Date: 12-14-20/1230
Sample Description: W

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	11.5 ± 1.2	12-18-20/2340	EPA 00-02	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	7.2 ± 1.0	Calc	Calc	1.2
Radium-226	pCi/l	5.7 ± 0.8	12-18-20/1238	EPA 903.0*	0.5
Radium-228	pCi/l	1.5 I ± 1.0	12-17-20/1154	EPA Ra-05	1.2

Alpha Standard: Th-230

* 114% carrier recovery

U = indicates that the compound was analyzed for but not detected.

I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

Page 1 of 1



Report Date: December 24, 2020

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2022868002
Field Blank
Sample Collection: 12-10-20/1000
Lab ID No: 20.16622
Lab Custody Date: 12-14-20/1230
Sample Description: W

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.8 I $\pm$ 0.5	12-17-20/1810	EPA 900.0	0.6
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.5 U $\pm$ 0.3	Calc	Calc	0.5
Radium-226	pCi/l	0.5 U $\pm$ 0.3	12-17-20/1246	EPA 903.0*	0.5
Radium-228	pCi/l	0.7 U $\pm$ 0.5	12-17-20/1154	EPA Ra-05	0.7

Alpha Standard: Th-230

* 72% carrier recovery

U = indicates that the compound was analyzed for but not detected.

I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

Page 1 of 1



Advanced
Environmental Laboratories, Inc.

☐ Altamonte Springs: 380 Northlake Blvd., Ste. 1046, FL 32701 • 407 937 1594 • Lab ID: ES3076
☐ Fort Myers: 13100 Westlakes Terrace, Ste. 10, FL 33913 • 239 674 8130 • Lab ID: E84492
☐ Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904 363 9930 • Lab ID: E82574
☐ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850 466 6274 • Lab ID: E81065

Page _____ of _____
☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352 277 2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954 889 2288 • Lab ID: E82535
☐ Tampa: 9610 Princess Palm Ave., FL 33619 • 813 630 9616 • Lab ID: E84589

Client Name:

Advanced Environmental Lab

Project Name: T2022868

Address:

Tampa FL 33619

Project Number:

PO Number:

Phone:

813-630-9616

FDEP Facility No:

FAX:

813-630-4327

FDEP Facility Address:

Contact:

mcammarata@aellab.com

Sampled By:

Special Instructions:

Turn Around Time: ☐ STANDARD ☐ RUSH

AEL Profile #:

☐ ADAPT ☐ EQUIS ☐ Other

SAMPLE ID SAMPLE DESCRIPTION

Grab Comp DATE TIME MATRIX NO. COUNT

Preservation Field-Filtered?

R226-W

R228-W

E900-W-A

LABORATORY I.D. NUMBER

T2022868001

12.10.20 10:30 WA 3

001

T2022868002

12.10.20 10:00 WA 3

002

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

Preservation Code: I = ice H=(HCl) S=(H2SO4) N=(HNO3) T=(Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample

☐ Temp from blank ☐ Where required, pH checked

Temp. when received (observed) _____ °C Temp. when received (corrected) _____ °C

DCN: AD-D051 Form last revised 08/07/2019

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

FOR DRINKING WATER USE:

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

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site Address: _____

Relinquished by:

Date Time

Received by:

Date Time

Bradley Biega

12.11.20

11:00

Bradley Biega

12.14.20

12:30

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

12/14/20

December 30, 2020

Mr. Michael Cammarata
Advanced Environmental Laboratories, Incorporated
9610 Princess Palm Avenue
Tampa, Florida 33619

Re: Dioxin Subcontract - Tampa
Work Order: 17511
SDG: T2022868

Dear Mr. Cammarata:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 16, 2020. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

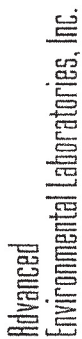
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,



Cynde Larkins
Project Manager

Purchase Order: T2022868
Enclosures



GA WOF 17511 Page 11 of 11

☐ **Gainesville:** 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001

☐ **Miramar:** 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535

☐ **Tampa:** 9610 Princess Palm Ave. FL 33619 • 813.630.9616 • Lab ID: E84589

[illegible]

Received on Ice	☒ Yes	☐ No	☒ Temp taken from sample	☐ Temp from blank	Where required, pH checked	Temp. when received (observed)	Temp. when received (corrected)
						°C	0.8

DCN: AD-D051 Form last revised 08/07/2019

Relinquished by:		Date	Time	Received by:		Date	Time
1	Bradley Biega	12.14.20	17:00	Cyndie Gashin		16 Dec 20	1750
2							
3							
4							

FOR DRINKING WATER USE:

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

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____

FOR DRINKING WATER USE:

When PWS Information not otherwise supplied) PWS ID:

Contact Person: _____ Phone: _____

Supplier of Water:

Site-Address:

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: <u>AELI</u>	Work Order: <u>17511</u>
Shipping Company: <u>FedEx</u>	Date/Time Received: <u>16 DEC 20 @ 1350</u>

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			☒
Samples identified as Foreign Soil?			☒

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?			☒
Samples < 2x background?			☒

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			☒

Air Witness: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other(describe)
2 Custody seal/s present on cooler?			☒	Seal intact? Yes No
3 Chain of Custody documents included with shipment?	☒			
4 Samples requiring cold preservation within 0-6°C?	☒			Preservation Method: ice bags loose ice blue ice dry ice none other (describe) Temperature Blank present: ☒ Yes No <u>0.8°C + 0.0°C = 0.8°C</u>
5 Aqueous samples found to have visible solids?	☒			Sample IDs, containers affected: <u>Sample -002 has minimal visible solids</u>
5 Samples requiring chemical preservation at proper pH?		☒		Sample IDs, containers affected and pH observed: <u>pH = 7 on both</u> If preservative added, Lot#:
7 Samples requiring preservation have no residual chlorine?	☒			Sample IDs, containers affected: If preservative added, Lot#:
8 Samples received within holding time?	☒			Sample IDs, tests affected:
9 Sample IDs on COC match IDs on containers?	☒			Sample IDs, containers affected:
10 Date & time of COC match date & time on containers?	☒			Sample IDs, containers affected:
11 Number of containers received match number indicated on COC?	☒			List type and number of containers / Sample IDs, containers affected: <u>2-1L NMAG bottles</u>
12 COC form is properly signed in relinquished/received sections?	☒			

Comments:

Checklist performed by: Initials: CF

Date: 16 DEC 20

CF-UD-F-7

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
Advanced Environmental Laboratories, Incorporated (AELI)
SDG T2022868
Work Order 17511

Method/Analysis Information

Product: TCDD only by SW846 Method 8290A in Liquids
Analytical Method: SW846 8290A
Extraction Method: SW846 3520C
Analytical Batch Number: 45637
Clean Up Batch Number: 45629
Extraction Batch Number: 45628

Sample Analysis

Samples were received at 0.8°C. (17511001,17511002). The following samples were analyzed using the analytical protocol as established in SW846 8290A:

Sample ID	Client ID
12028223	Method Blank (MB)
12028224	Laboratory Control Sample (LCS)
12028225	Laboratory Control Sample Duplicate (LCSD)
17511001	T2022868001
17511002	T2022868002

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 18.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction.

Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted: Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

AELI001 Advanced Environmental Laboratories, Incorporated

Client SDG: T2022868 CFA Work Order: 17511

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: 

Name: Erin Suhrie

Date: 30 DEC 2020

Title: Data Validator

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: T2022868
Lab Sample ID: 17511001
Client Sample: 8290 TCDD Water
Client ID: T2022868001
Batch ID: 45637
Run Date: 12/23/2020 13:30
Data File: b23dec20a-7
Prep Batch: 45628
Prep Date: 17-DEC-20

Client: AELI001
Date Collected: 12/10/2020 10:30
Date Received: 12/16/2020 13:50

Method: SW846 8290A
Analyst: MLL

Prep Method: SW846 3520C
Prep Aliquot: 991.9 mL

Project: AELI00716
Matrix: WATER

Prep Basis: As Received

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.85		pg/L	5.85	10.1

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1330	2020	pg/L	65.8	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: T2022868
Lab Sample ID: 17511002
Client Sample: 8290 TCDD Water
Client ID: T2022868002
Batch ID: 45637
Run Date: 12/23/2020 14:18
Data File: b23dec20a-8
Prep Batch: 45628
Prep Date: 17-DEC-20

Client: AELI001
Date Collected: 12/10/2020 10:00
Date Received: 12/16/2020 13:50

Method: SW846 8290A
Analyst: MLL

Prep Method: SW846 3520C
Prep Aliquot: 981.2 mL

Project: AELI00716
Matrix: WATER

Prep Basis: As Received

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	6.62		pg/L	6.62	10.2

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1480	2040	pg/L	72.8	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Quality Control Summary

**Hi-Res Dioxins/Furans
Surrogate Recovery Report**

Page 1 of 1

SDG Number: T2022868

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12028224	LCS for batch 45628	13C-2,3,7,8-TCDD		78.4	(40%-135%)
12028225	LCSD for batch 45628	13C-2,3,7,8-TCDD		79.7	(40%-135%)
12028223	MB for batch 45628	13C-2,3,7,8-TCDD		71.0	(40%-135%)
17511001	T2022868001	13C-2,3,7,8-TCDD		65.8	(40%-135%)
17511002	T2022868002	13C-2,3,7,8-TCDD		72.8	(40%-135%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

Page 1 of 2

SDG Number: T2022868

Client ID: LCS for batch 45628

Lab Sample ID: 12028224

Instrument: HRP763

Analyst: MLL

Sample Type: Laboratory Control Sample

Matrix: WATER

Analysis Date: 12/23/2020 09:27

Dilution: 1

Prep Batch ID: 45628

Batch ID: 45637

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	199	99.7	70-130

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

Page 2 of 2

SDG Number: T2022868

Client ID: LCSD for batch 45628

Lab Sample ID: 12028225

Instrument: HRP763

Analyst: MLL

Sample Type: Laboratory Control Sample Duplicate

Matrix: WATER

Analysis Date: 12/23/2020 10:16

Dilution: 1

Prep Batch ID:45628

Batch ID: 45637

CAS No.	Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD 2,3,7,8-TCDD	200	204	102	70-130	2.36	0-20

Method Blank Summary

Page 1 of 1

SDG Number: T2022868
Client ID: MB for batch 45628
Lab Sample ID: 12028223
Column:

Client: AELI001
Instrument ID: HRP763
Prep Date: 17-DEC-20

Matrix: WATER
Data File: b23dec20a-4
Analyzed: 12/23/20 11:04

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 45628	12028224	b23dec20a-2	12/23/20	0927
02 LCSD for batch 45628	12028225	b23dec20a-3	12/23/20	1016
03 T2022868001	17511001	b23dec20a-7	12/23/20	1330
04 T2022868002	17511002	b23dec20a-8	12/23/20	1418

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: T2022868
Lab Sample ID: 12028223
Client Sample: QC for batch 45628
Client ID: MB for batch 45628
Batch ID: 45637
Run Date: 12/23/2020 11:04
Data File: b23dec20a-4
Prep Batch: 45628
Prep Date: 17-DEC-20

Client: AELI001

Method: SW846 8290A
Analyst: MLL

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: AELI00716
Matrix: WATER

Prep Basis: As Received

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.00		pg/L	5.00	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1420	2000	pg/L	71.0	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: T2022868
Lab Sample ID: 12028224
Client Sample: QC for batch 45628
Client ID: LCS for batch 45628
Batch ID: 45637
Run Date: 12/23/2020 09:27
Data File: b23dec20a-2
Prep Batch: 45628
Prep Date: 17-DEC-20

Client: AELI001

Method: SW846 8290A
Analyst: MLL

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: AELI00716
Matrix: WATER

Prep Basis: As Received

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		199		pg/L	4.38	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1570	2000	pg/L	78.4	(40%-135%)

Comments:

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: T2022868
Lab Sample ID: 12028225
Client Sample: QC for batch 45628
Client ID: LCSD for batch 45628
Batch ID: 45637
Run Date: 12/23/2020 10:16
Data File: b23dec20a-3
Prep Batch: 45628
Prep Date: 17-DEC-20

Client: AELI001

Method: SW846 8290A
Analyst: MLL

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: AELI00716
Matrix: WATER

Prep Basis: As Received

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		204		pg/L	4.78	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1590	2000	pg/L	79.7	(40%-135%)

Comments: