Hillsborough County Florida

PUBLIC UTILITIES
PO Box 1110
Tampa, FL 33601-1110

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

Effluent Quality Report
October-December 2021

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

Michael D. Townsel 2/3/2022

Michael D. Townsel
Hydrologist
Environmental Services Division
Public Utilities Department

Southeast County Landfill Leachate Treatment Plant
Effluent Quality Report – Fourth Quarter 2021
WACS Testsite #19864

Southeast Landfill Quarterly Results (October-December 2021)

In accordance with Southeast County Landfill (SCLF) permit modification 35435-29-SO-MM, dated May 24, 2021, the Hillsborough County Public Utilities Department (County), has prepared the quarterly effluent results for the SCLF leachate treatment plant (LTP), located at 15960 County Road 672 in Lithia, Florida.

Effluent pH was recorded from 7.25 to 8.51 pH units by LTP personnel and the calibration logs are exhibited as part of the submittal. However, during various times for the month of October, effluent pH was not recorded as the treatment system was offline for pump repair and maintenance. Between December 17 and December 22, there were no pH readings collected due to the lack of treated effluent in the tanks and holding ponds.

Monthly sampling of the LTP effluent and daily recording of the plant pH was conducted in accordance with the leachate management plan (LMP) of the referenced permit. County personnel collected effluent samples from the designated sampling port at the treatment plant on October 6 and November 3, 2021 for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Nitrate, and field parameters. On December 2, 2021, the County collected the required semi-annual sample at the LTP for primary drinking water standards (PDWS), secondary drinking water standards (SDWS), and priority pollutant metals. Each of the effluent samples were analyzed by our contract laboratory, Advanced Environmental Laboratories, Inc. and is consistent with the historical data over the period of record. The December 2021 semi-annual sampling event was unable to be uploaded to the FDEP Business Portal from the laboratory due to the difficulties drinking water standards provide in the Adapt EDD.

PH Calibration Log

Month	10/21					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.18	7.25	
2	4.00	7.00	10.00	7.21		
3	4.00	7.00	10.00	7.24		
4	4.00	7.00	10.00	7.30	7.64	7.85
5	4.00	7.00	10.00	7.34	7.73	7.52
6	4.00	7.00	10.00	7.31	7.66	
7	4.00	7.00	10.00	7.38	7.57	7.49
8	4.00	7.00	10.00	7.14	7.75	
9	4.00	7.00	10.00	7.18		
10						
11	4.00	7.00	10.00	7.19	7.49	7.68
12	4.00	7.00	10.00	7.37	7.74	7.98
13	4.00	7.00	10.00	7.27	7.67	7.98
14	4.00	7.00	10.00	7.41	7.68	
15	4.00	7.00	10.00			
16						
17						
18	4.00	7.00	10.00	7.36	8.05	8.27
19	4.00	7.00	10.00	7.60	8.21	
20	4.00	7.00	10.00	7.51	7.95	
21	4.00	7.00	10.00	7.56	7.99	8.31
22	4.00	7.00	10.00	7.44	7.92	
23						
24						
25	4.00	7.00	10.00	7.35	8.13	
26	4.00	7.00	10.00	7.65	8.24	
27	4.00	7.00	10.00	7.58	8.32	8.08
28	4.00	7.00	10.00	7.49	8.26	
29	4.00	7.00	10.00	7.39	8.02	
30						
31						

PH Calibration Log

Month	November					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.35	8.09	
2	4.00	7.00	10.00	7.32	8.04	
3	4.00	7.00	10.00	7.33	8.00	
4	4.00	7.00	10.00	7.32	8.03	
5	4.00	7.00	10.00	7.36	8.08	
6						
7						
8	4.00	7.00	10.00	7.47	8.24	
9	4.00	7.00	10.00	7.58	8.06	
10	4.00	7.00	10.00	7.44	8.20	
11	4.00	7.00	10.00	7.31	8.03	
12	4.00	7.00	10.00	7.21	8.04	8.17
13						8.00
14						
15	4.00	7.00	10.00	7.03	7.70	
16	4.00	7.00	10.00	7.03	7.94	
17	4.00	7.00	10.00	7.21	7.96	8.05
18	4.00	7.00	10.00	7.31	7.87	8.18
19	4.00	7.00	10.00	7.55	7.87	8.29
20						
21						
22	4.00	7.00	10.00	7.43	8.13	8.39
23	4.00	7.00	10.00	7.54	8.07	8.20
24	4.00	7.00	10.00	7.49	8.25	8.30
25						
26	4.00	7.00	10.00	7.47	8.15	
27						8.19
28						
29	4.00	7.00	10.00	7.21	7.94	8.09
30	4.00	7.00	10.00	7.20	7.82	8.14
31						

PH Calibration Log

Month	12/21					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.54	8.09	
2	4.00	7.00	10.00	7.84	7.91	
3	4.00	7.00	10.00	7.14	7.70	
4						8.00
5						
6	4.00	7.00	10.00	7.47	8.00	
7	4.00	7.00	10.00	7.31	7.91	
8	4.00	7.00	10.00	7.48	8.02	
9	4.00	7.00	10.00	7.67	8.15	8.21
10	4.00	7.00	10.00	7.67	8.22	8.30
11						
12						
13	4.00	7.00	10.00	7.60	8.03	8.15
14	4.00	7.00	10.00	7.66	8.14	
15	4.00	7.00	10.00	7.63	8.20	8.12
16	4.00	7.00	10.00	7.56	8.10	empty
17	4.00	7.00	10.00	7.65	N/A	empty
18						
19						
20	4.00	7.00	10.00	7.76	N/A	empty
21	4.00	7.00	10.00	7.63	N/A	empty
22	4.00	7.00	10.00	7.54	N/A	empty
23	4.00	7.00	10.00	7.36	8.15	empty
24	4.00	7.00	10.00	7.50	8.14	Too low
25						
26						
27	4.00	7.00	10.00	7.49	8.51	8.35
28	4.00	7.00	10.00	7.37	8.46	8.27
29	4.00	7.00	10.00	7.40	8.32	8.32
30	4.00	7.00	10.00	7.54	8.38	8.50
31	4.00	7.00	10.00	7.47	8.41	8.43

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
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FINAL

Workorder: SELF Plant Effluent (T2118563)

November 10, 2021

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

RE: Workorder: T2118563 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday October 6, 2021. 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

Heidi Parker, Project Manager
HParker@aellab.com

Certificate of Analysis

POWERED BY HORIZON v.13.0.0

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Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
T2118563001	Leachate Effluent	WA	EPA 410.4	10/06/2021 10:20	10/06/2021 11:30	1
T2118563001	Leachate Effluent	WA	Field Measurements	10/06/2021 10:20	10/06/2021 11:30	5
T2118563001	Leachate Effluent	WA	SM 2540 C	10/06/2021 10:20	10/06/2021 11:30	1
T2118563001	Leachate Effluent	WA	SM 2540D	10/06/2021 10:20	10/06/2021 11:30	1
T2118563001	Leachate Effluent	WA	SM 4500NO3-F	10/06/2021 10:20	10/06/2021 11:30	1
T2118563001	Leachate Effluent	WA	SM 5210B	10/06/2021 10:20	10/06/2021 11:30	1
T2118563002	Field Blank	WA	EPA 410.4	10/06/2021 10:15	10/06/2021 11:30	1
T2118563002	Field Blank	WA	SM 2540 C	10/06/2021 10:15	10/06/2021 11:30	1
T2118563002	Field Blank	WA	SM 2540D	10/06/2021 10:15	10/06/2021 11:30	1
T2118563002	Field Blank	WA	SM 4500NO3-F	10/06/2021 10:15	10/06/2021 11:30	1
T2118563002	Field Blank	WA	SM 5210B	10/06/2021 10:15	10/06/2021 11:30	1

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Workorder: SELF Plant Effluent (T2118563)

Analytical Results Qualifiers

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

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Workorder: SELF Plant Effluent (T2118563)

Analytical Results

Lab ID: T2118563001 **Date Collected:** 10/6/2021 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 10/6/2021

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**11935**	umhos			1	10/06/2021 10:20	10/06/2021 10:20	
Dissolved Oxygen	**2.64**	mg/L			1	10/06/2021 10:20	10/06/2021 10:20	
ORP-2580BW	**22.4**	mV			1	10/06/2021 10:20	10/06/2021 10:20	
Temperature	**31.1**	°C			1	10/06/2021 10:20	10/06/2021 10:20	
pH	**7.56**	SU			1	10/06/2021 10:20	10/06/2021 10:20	
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**458**	mg/L	50	20	1	10/13/2021 14:00	10/13/2021 14:00	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**6780**	mg/L	10	10	1	10/12/2021 12:00	10/12/2021 12:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**26**	mg/L	5	5.0	5	10/11/2021 17:00	10/11/2021 17:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	**138**	mg/L	5	4.6	50	10/06/2021 19:15	10/06/2021 19:15	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**12**	mg/L	2	2.0	1	10/06/2021 17:36	10/06/2021 17:36	T

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Workorder: SELF Plant Effluent (T2118563)

Analytical Results

Lab ID: T2118563002 **Date Collected:** 10/6/2021 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 10/6/2021

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	10/13/2021 14:00	10/13/2021 14:00	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	10/12/2021 12:00	10/12/2021 12:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	1.0 U	mg/L	1	1.0	1	10/11/2021 17:00	10/11/2021 17:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.1	0.092	1	10/06/2021 19:16	10/06/2021 19:16	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	10/06/2021 17:38	10/06/2021 17:38	T

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Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7387
Preparation Method: SM 5210B
Associated Lab IDs: T2118563001, T2118563002
Analysis Method: SM 5210B

Method Blank(4052335)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	T

Lab Control Sample (4052336)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	194	98	84.60 - 115.40	T

Sample Duplicate (4052337)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	162.95	168.79	mg/L	4	20	T

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Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7395
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2118563001, T2118563002
Analysis Method: SM 4500NO3-F

Method Blank(4052723)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	T

Lab Control Sample (4052724)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	1	103	90 - 110	T

Matrix Spike (4052725); Matrix Spike Duplicate (4052726)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	15	106	90 - 110	15	108	0	10	T

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Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7470
Preparation Method: SM 2540D
Associated Lab IDs: T2118563001, T2118563002
Analysis Method: SM 2540D

Method Blank(4057234)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4057235)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	214	107	85 - 115	T

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Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7519
Preparation Method: EPA 410.4
Associated Lab IDs: T2118563001
Analysis Method: EPA 410.4

Method Blank(4059343)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4059344)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	502	100	90 - 110	T

Matrix Spike (4059350); Matrix Spike Duplicate (4059351)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	484	97	90 - 110	484	97	0	10	T

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FINAL

Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7520
Preparation Method: EPA 410.4
Associated Lab IDs: T2118563002
Analysis Method: EPA 410.4

Method Blank(4059407)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4059408)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	502	100	90 - 110	T

Matrix Spike (4059410); Matrix Spike Duplicate (4059411)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	2330	102	90 - 110	2330	102	0	10	T

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Workorder: SELF Plant Effluent (T2118563)

QC Results

QC Batch: WCAt/7544
Preparation Method: SM 2540 C
Associated Lab IDs: T2118563001, T2118563002
Analysis Method: SM 2540 C

Method Blank(4061288)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	T

Lab Control Sample (4061289)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	686	104	85 - 115	T

Sample Duplicate (4061290)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	210	208	mg/L	1	10	T

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Workorder: SELF Plant Effluent (T2118563)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/7387 - SM 5210B			
T2118563001	Leachate Effluent		
T2118563002	Field Blank		
WCAt/7395 - SM 4500NO3-F			
T2118563001	Leachate Effluent		
T2118563002	Field Blank		
WCAt/7470 - SM 2540D			
T2118563001	Leachate Effluent		
T2118563002	Field Blank		
WCAt/7519 - EPA 410.4			
T2118563001	Leachate Effluent		
WCAt/7520 - EPA 410.4			
T2118563002	Field Blank		
WCAt/7544 - SM 2540 C			
T2118563001	Leachate Effluent		
T2118563002	Field Blank		

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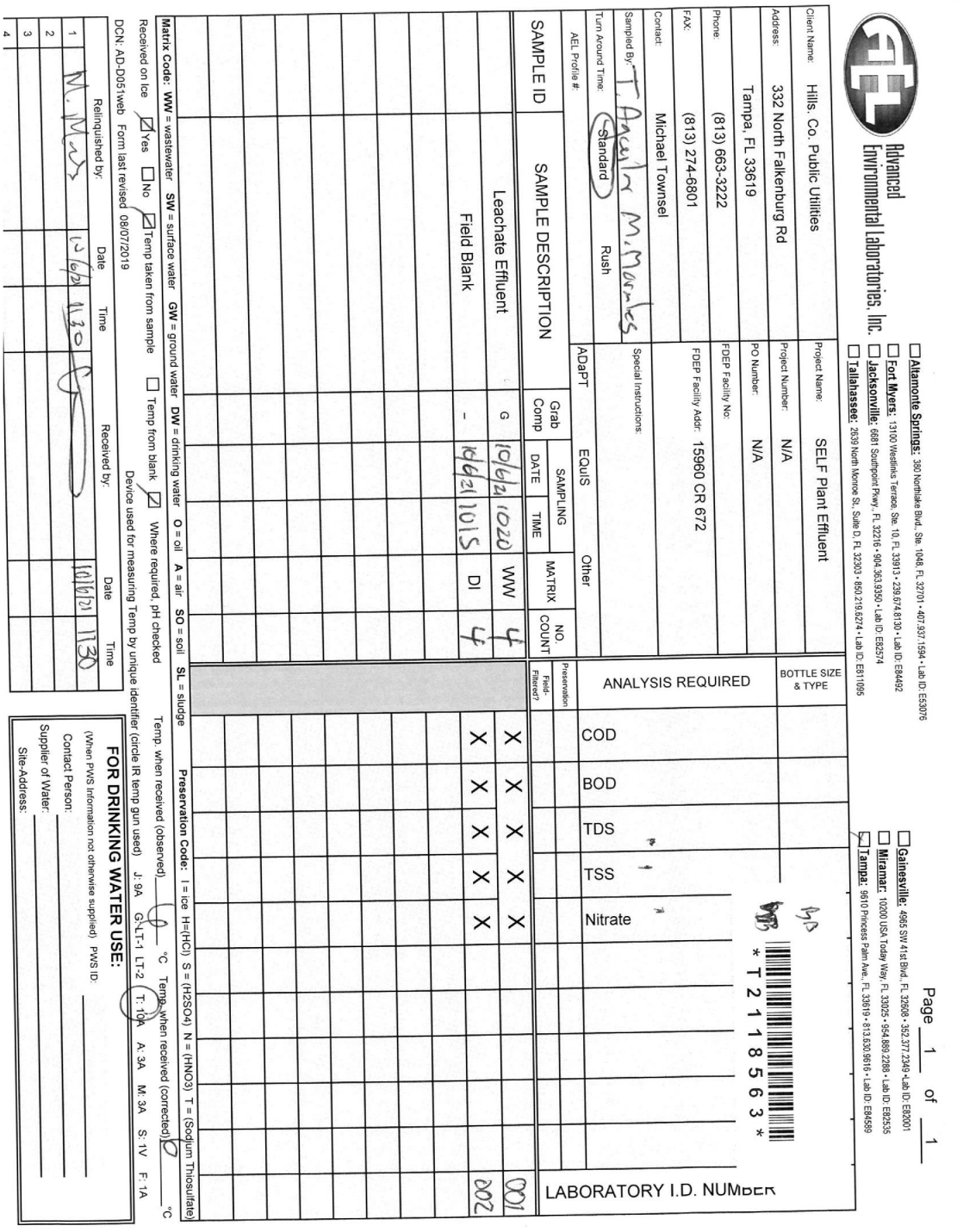
Workorder: SELF Plant Effluent (T2118563)



Certificate of Analysis

NELAP Accredited E84589

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: 10/6/21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
N/A	N/A	N/A ft to N/A ft	N/A	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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
N/A	N/A	N/A	N/A	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)
1015											

Field Blank 10/6/21

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
T. Aguilar M. Morales	M. Morales	1015	1016

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

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

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

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 10/6/21

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1020	N/A	N/A	N/A	N/A	7.56	31.1	11935	2.64	N/A	Brown	Effluent

10/6/21

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: T. Aguilar M. Sorto	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1022
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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: 1020 (22.4)

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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Workorder: SELF Plant Effluent (T2120809)

December 06, 2021

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

RE: Workorder: T2120809 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday November 3, 2021. 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

Heidi Parker, Project Manager
HParker@aellab.com

Certificate of Analysis

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Workorder: SELF Plant Effluent (T2120809)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
T2120809001	Leachate Effluent	WA	EPA 410.4	11/03/2021 14:30	11/03/2021 15:45	1
T2120809001	Leachate Effluent	WA	Field Measurements	11/03/2021 14:30	11/03/2021 15:45	5
T2120809001	Leachate Effluent	WA	SM 2540 C	11/03/2021 14:30	11/03/2021 15:45	1
T2120809001	Leachate Effluent	WA	SM 2540D	11/03/2021 14:30	11/03/2021 15:45	1
T2120809001	Leachate Effluent	WA	SM 4500NO3-F	11/03/2021 14:30	11/03/2021 15:45	1
T2120809001	Leachate Effluent	WA	SM 5210B	11/03/2021 14:30	11/03/2021 15:45	1
T2120809002	Field Blank	WA	EPA 410.4	11/03/2021 14:40	11/03/2021 15:45	1
T2120809002	Field Blank	WA	SM 2540 C	11/03/2021 14:40	11/03/2021 15:45	1
T2120809002	Field Blank	WA	SM 2540D	11/03/2021 14:40	11/03/2021 15:45	1
T2120809002	Field Blank	WA	SM 4500NO3-F	11/03/2021 14:40	11/03/2021 15:45	1
T2120809002	Field Blank	WA	SM 5210B	11/03/2021 14:40	11/03/2021 15:45	1

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FINAL

Workorder: SELF Plant Effluent (T2120809)

Analytical Results Qualifiers

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

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Workorder: SELF Plant Effluent (T2120809)

Analytical Results

Lab ID: T2120809001 **Date Collected:** 11/03/2021 14:30 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 11/03/2021 15:45

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**14353**	umhos/cm			1	11/03/2021 14:30	11/03/2021 14:30	
Dissolved Oxygen	**7.22**	mg/L			1	11/03/2021 14:30	11/03/2021 14:30	
ORP-2580BW	**61.3**	mV			1	11/03/2021 14:30	11/03/2021 14:30	
Temperature	**31.2**	°C			1	11/03/2021 14:30	11/03/2021 14:30	
pH	**7.09**	SU			1	11/03/2021 14:30	11/03/2021 14:30	
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**931**	mg/L	50	20	1	11/08/2021 14:30	11/08/2021 14:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**8330**	mg/L	10	10	1	11/08/2021 14:00	11/08/2021 14:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**21**	mg/L	2	2.0	2	11/09/2021 13:00	11/09/2021 13:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	**0.11**	mg/L	0.10	0.092	1	11/03/2021 21:11	11/03/2021 21:11	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**22**	mg/L	2	2.0	1	11/03/2021 18:14	11/03/2021 18:14	T

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FINAL

Workorder: SELF Plant Effluent (T2120809)

Analytical Results

Lab ID: T2120809002 **Date Collected:** 11/03/2021 14:40 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 11/03/2021 15:45

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	11/08/2021 14:30	11/08/2021 14:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	11/08/2021 14:00	11/08/2021 14:00	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	5.0 U	mg/L	5	5.0	5	11/09/2021 13:00	11/09/2021 13:00	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	1	11/03/2021 21:12	11/03/2021 21:12	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	11/03/2021 18:19	11/03/2021 18:19	T

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FINAL

Workorder: SELF Plant Effluent (T2120809)

QC Results

QC Batch: WCAt/8054
Preparation Method: SM 5210B
Associated Lab IDs: T2120809001, T2120809002
Analysis Method: SM 5210B

Method Blank(4087745)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	T

Lab Control Sample (4087746)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	185	94	84.60 - 115.40	T

Sample Duplicate (4087747)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	256.32	270.69	mg/L	5	20	T

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Workorder: SELF Plant Effluent (T2120809)

QC Results

QC Batch: WCAt/8065
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2120809001, T2120809002
Analysis Method: SM 4500NO3-F

Method Blank(4087966)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L	0.10	0.092	T

Lab Control Sample (4087967)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	1	100	90 - 110	T

Matrix Spike (4087968); Matrix Spike Duplicate (4087969)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	1.8	99	90 - 110	1.8	97	2	10	T

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Workorder: SELF Plant Effluent (T2120809)

QC Results

QC Batch: WCAt/8152
Preparation Method: EPA 410.4
Associated Lab IDs: T2120809001, T2120809002
Analysis Method: EPA 410.4

Method Blank(4092138)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L	50	20	T

Lab Control Sample (4092139)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	510	102	90 - 110	T

Matrix Spike (4092141); Matrix Spike Duplicate (4092142)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	609	107	90 - 110	609	107	0	10	T

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Workorder: SELF Plant Effluent (T2120809)

QC Results

QC Batch: WCAt/8182
Preparation Method: SM 2540D
Associated Lab IDs: T2120809001, T2120809002
Analysis Method: SM 2540D

Method Blank(4093363)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	T

Lab Control Sample (4093364)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	190	95	85 - 115	T

Sample Duplicate (4093365)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	40	42	mg/L	5	10	T

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Workorder: SELF Plant Effluent (T2120809)

QC Results

QC Batch: WCAt/8282
Preparation Method: SM 2540 C
Associated Lab IDs: T2120809001, T2120809002
Analysis Method: SM 2540 C

Method Blank(4099856)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	T

Lab Control Sample (4099857)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	654	99	85 - 115	T

Sample Duplicate (4099858)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	288	268	mg/L	7	10	T

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Workorder: SELF Plant Effluent (T2120809)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/8054 - SM 5210B			
T2120809001	Leachate Effluent		
T2120809002	Field Blank		
WCAt/8065 - SM 4500NO3-F			
T2120809001	Leachate Effluent		
T2120809002	Field Blank		
WCAt/8152 - EPA 410.4			
T2120809001	Leachate Effluent		
T2120809002	Field Blank		
WCAt/8182 - SM 2540D			
T2120809001	Leachate Effluent		
T2120809002	Field Blank		
WCAt/8282 - SM 2540 C			
T2120809001	Leachate Effluent		
T2120809002	Field Blank		

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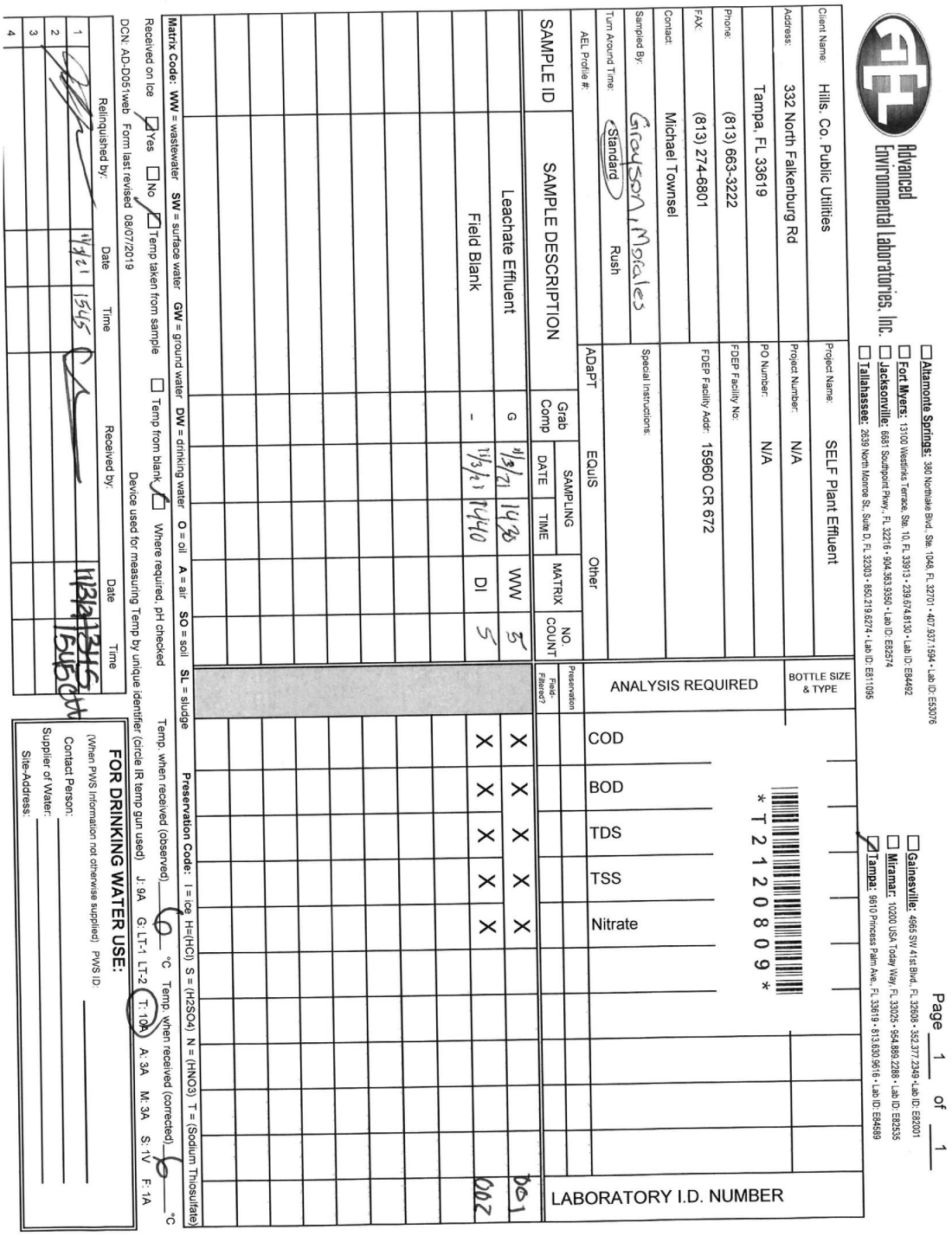
Workorder: SELF Plant Effluent (T2120809)



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FINAL

Workorder: SELF Plant Effluent (T2120809)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 11/03/21

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)
1430	N/A	N/A	N/A	N/A	7.09	31.2	14353	2.22	N/A	Brown	Leachate

11/03/21

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):	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1435
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

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

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** **ORP:** 1430 (61.3)

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** = 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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Workorder: SELF Plant Effluent (T2120809)

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: 11/03/21

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)

11/03/21

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):	SAMPLING INITIATED AT: 1440	SAMPLING ENDED AT: 1441
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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**

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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Workorder: SELF Plant Effluent (T2122789)

January 10, 2022

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

RE: Workorder: T2122789 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday December 2, 2021. 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

Heidi Parker, Project Manager
HParker@aellab.com

Certificate of Analysis

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Workorder: SELF Plant Effluent (T2122789)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
T2122789001	Leachate Effluent	WA	EPA 200.7	12/02/2021 09:40	12/02/2021 11:23	8
T2122789001	Leachate Effluent	WA	EPA 200.8	12/02/2021 09:40	12/02/2021 11:23	10
T2122789001	Leachate Effluent	WA	EPA 245.1	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	EPA 300.0	12/02/2021 09:40	12/02/2021 11:23	3
T2122789001	Leachate Effluent	WA	EPA 410.4	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	EPA 504.1	12/02/2021 09:40	12/02/2021 11:23	2
T2122789001	Leachate Effluent	WA	EPA 508	12/02/2021 09:40	12/02/2021 11:23	10
T2122789001	Leachate Effluent	WA	EPA 515.3	12/02/2021 09:40	12/02/2021 11:23	6
T2122789001	Leachate Effluent	WA	EPA 524.2	12/02/2021 09:40	12/02/2021 11:23	26
T2122789001	Leachate Effluent	WA	EPA 525.2	12/02/2021 09:40	12/02/2021 11:23	6
T2122789001	Leachate Effluent	WA	EPA 531.1	12/02/2021 09:40	12/02/2021 11:23	2
T2122789001	Leachate Effluent	WA	EPA 547	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	EPA 548.1	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	EPA 549.2	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	EPA 552.2	12/02/2021 09:40	12/02/2021 11:23	6
T2122789001	Leachate Effluent	WA	EPA 8081	12/02/2021 09:40	12/02/2021 11:23	12
T2122789001	Leachate Effluent	WA	Field Measurements	12/02/2021 09:40	12/02/2021 11:23	5
T2122789001	Leachate Effluent	WA	SM 2120 B	12/02/2021 09:40	12/02/2021 11:23	2
T2122789001	Leachate Effluent	WA	SM 2150 B	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 2540 C	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 2540D	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 3500-CR D	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 4500-CN-E	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 4500H+B	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 4500NO3-F	12/02/2021 09:40	12/02/2021 11:23	2
T2122789001	Leachate Effluent	WA	SM 5210B	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SM 5540 C	12/02/2021 09:40	12/02/2021 11:23	1
T2122789001	Leachate Effluent	WA	SW-846 8082A	12/02/2021 09:40	12/02/2021 11:23	7
T2122789001	Leachate Effluent	WA	SW-846 8260B	12/02/2021 09:40	12/02/2021 11:23	10
T2122789001	Leachate Effluent	WA	SW-846 8270C	12/02/2021 09:40	12/02/2021 11:23	49
T2122789002	Field Blank	WA	EPA 200.7	12/02/2021 09:05	12/02/2021 11:23	8
T2122789002	Field Blank	WA	EPA 200.8	12/02/2021 09:05	12/02/2021 11:23	10
T2122789002	Field Blank	WA	EPA 245.1	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	EPA 300.0	12/02/2021 09:05	12/02/2021 11:23	3
T2122789002	Field Blank	WA	EPA 410.4	12/02/2021 09:05	12/02/2021 11:23	1

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Workorder: SELF Plant Effluent (T2122789)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
T2122789002	Field Blank	WA	EPA 504.1	12/02/2021 09:05	12/02/2021 11:23	2
T2122789002	Field Blank	WA	EPA 508	12/02/2021 09:05	12/02/2021 11:23	10
T2122789002	Field Blank	WA	EPA 515.3	12/02/2021 09:05	12/02/2021 11:23	6
T2122789002	Field Blank	WA	EPA 524.2	12/02/2021 09:05	12/02/2021 11:23	26
T2122789002	Field Blank	WA	EPA 525.2	12/02/2021 09:05	12/02/2021 11:23	6
T2122789002	Field Blank	WA	EPA 531.1	12/02/2021 09:05	12/02/2021 11:23	2
T2122789002	Field Blank	WA	EPA 547	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	EPA 548.1	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	EPA 549.2	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	EPA 552.2	12/02/2021 09:05	12/02/2021 11:23	6
T2122789002	Field Blank	WA	EPA 8081	12/02/2021 09:05	12/02/2021 11:23	12
T2122789002	Field Blank	WA	SM 2120 B	12/02/2021 09:05	12/02/2021 11:23	2
T2122789002	Field Blank	WA	SM 2150 B	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 2540 C	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 2540D	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 3500-CR D	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 4500-CN-E	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 4500H+B	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 4500NO3-F	12/02/2021 09:05	12/02/2021 11:23	2
T2122789002	Field Blank	WA	SM 5210B	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SM 5540 C	12/02/2021 09:05	12/02/2021 11:23	1
T2122789002	Field Blank	WA	SW-846 8082A	12/02/2021 09:05	12/02/2021 11:23	7
T2122789002	Field Blank	WA	SW-846 8260B	12/02/2021 09:05	12/02/2021 11:23	10
T2122789002	Field Blank	WA	SW-846 8270C	12/02/2021 09:05	12/02/2021 11:23	49
T2122789003	Travel Blank	WA	SW-846 8260B	12/02/2021 00:00	12/02/2021 11:23	40

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Workorder Summary

Method Comments

COLR-SM-W

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results Qualifiers

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
CN	See Case Narration
J4	Estimated Result

Lab Qualifiers

G	DOH Certification #E82001 (FL NELAC) AEL-Gainesville
J	DOH Certification #E82574 (FL NELAC) AEL-Jacksonville
J^	Not Certified
M	DOH Certification #E82535 (FL NELAC) AEL-Miami
T	DOH Certification #E84589 (FL NELAC) AEL-Tampa
T^	Not Certified

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (Field Measurements)								
Conductivity	**12687**	umhos/cm			1	12/02/2021 09:40	12/02/2021 09:40	T
Dissolved Oxygen	**4.21**	mg/L			1	12/02/2021 09:40	12/02/2021 09:40	T
ORP-2580BW	**190.9**	mV			1	12/02/2021 09:40	12/02/2021 09:40	T
Temperature	**22.2**	°C			1	12/02/2021 09:40	12/02/2021 09:40	T
pH	**7.74**	SU			1	12/02/2021 09:40	12/02/2021 09:40	T
METALS (EPA 200.7)								
Aluminum	0.021 U	mg/L	0.10	0.021	1	12/13/2021 13:00	12/14/2021 10:13	T
Barium	**0.066**	mg/L	0.010	0.0030	1	12/13/2021 13:00	12/14/2021 10:13	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	1	12/13/2021 13:00	12/14/2021 10:13	T
Chromium	**0.0063 I**	mg/L	0.010	0.0050	1	12/13/2021 13:00	12/14/2021 10:13	T
Iron	**1.3**	mg/L	0.10	0.0067	1	12/13/2021 13:00	12/14/2021 10:13	T
Nickel	**0.028**	mg/L	0.010	0.0080	1	12/13/2021 13:00	12/14/2021 10:13	T
Sodium	**2500**	mg/L	25	20	25	12/13/2021 13:00	12/15/2021 18:14	T
Zinc	**0.074 I**	mg/L	0.10	0.050	1	12/13/2021 13:00	12/14/2021 10:13	T
METALS (EPA 200.8)								
Antimony	0.0050 U	mg/L	0.020	0.0050	5	12/09/2021 11:53	12/15/2021 17:47	J
Arsenic	**0.0042 I**	mg/L	0.0050	0.0012	5	12/09/2021 11:53	12/15/2021 17:47	J
Cadmium	0.0012 U	mg/L	0.0050	0.0012	5	12/09/2021 11:53	12/15/2021 17:47	J
Copper	**0.018 I**	mg/L	0.020	0.0050	5	12/09/2021 11:53	12/15/2021 17:47	J
Lead	0.0025 U	mg/L	0.010	0.0025	5	12/09/2021 11:53	12/15/2021 17:47	J
Manganese	**0.026**	mg/L	0.020	0.0050	5	12/09/2021 11:53	12/15/2021 17:47	J
Selenium	0.0062 U	mg/L	0.025	0.0062	5	12/09/2021 11:53	12/15/2021 17:47	J
Silver	0.0025 U	mg/L	0.010	0.0025	5	12/09/2021 11:53	12/15/2021 17:47	J
Thallium	0.0012 U	mg/L	0.0050	0.0012	5	12/09/2021 11:53	12/15/2021 17:47	J
Uranium	**3.5 I**	ug/L	4.0	1.0	5	12/09/2021 11:53	12/16/2021 12:44	J
METALS (EPA 245.1)								

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Mercury	0.000028 U	mg/L	0.00010	0.000028	1	12/09/2021 09:30	12/09/2021 15:38	T
SEMIVOLATILES (EPA 504.1)								
1,2-Dibromo-3-Chloropropane	0.0048 U	ug/L	0.020	0.0048	1	12/09/2021 12:00	12/10/2021 04:15	T
Ethylene Dibromide (EDB)	0.0075 U	ug/L	0.020	0.0075	1	12/09/2021 12:00	12/10/2021 04:15	T
SEMIVOLATILES (EPA 508)								
Chlordane (technical)	0.053 U	ug/L	0.20	0.053	1	12/08/2021 06:30	12/17/2021 16:57	J
Endrin	0.0069 U	ug/L	0.020	0.0069	1	12/08/2021 06:30	12/17/2021 16:57	J
Heptachlor	0.0060 U	ug/L	0.020	0.0060	1	12/08/2021 06:30	12/17/2021 16:57	J
Heptachlor Epoxide	0.0052 U	ug/L	0.020	0.0052	1	12/08/2021 06:30	12/17/2021 16:57	J
Hexachlorobenzene	0.0063 U	ug/L	0.020	0.0063	1	12/08/2021 06:30	12/17/2021 16:57	J
Hexachlorocyclopentadiene	0.019 U	ug/L	0.020	0.019	1	12/08/2021 06:30	12/17/2021 16:57	J
Methoxychlor	0.0068 U	ug/L	0.020	0.0068	1	12/08/2021 06:30	12/17/2021 16:57	J
PCBs	0.093 U	ug/L	0.20	0.093	1	12/08/2021 06:30	12/17/2021 16:57	J
Toxaphene	0.12 U	ug/L	0.20	0.12	1	12/08/2021 06:30	12/17/2021 16:57	J
gamma-BHC (Lindane)	0.0071 U	ug/L	0.020	0.0071	1	12/08/2021 06:30	12/17/2021 16:57	J
SEMIVOLATILES (EPA 515.3)								
2,4-D	0.095 U	ug/L	5.0	0.095	1	12/13/2021 12:53	12/19/2021 10:18	J
Dalapon	0.90 U	ug/L	5.0	0.90	1	12/13/2021 12:53	12/19/2021 10:18	J
Dinoseb	0.18 U	ug/L	2.5	0.18	1	12/13/2021 12:53	12/19/2021 10:18	J
Pentachlorophenol	0.038 U	ug/L	0.50	0.038	1	12/13/2021 12:53	12/19/2021 10:18	J
Picloram	0.090 U	ug/L	0.50	0.090	1	12/13/2021 12:53	12/19/2021 10:18	J
Silvex (2,4,5-TP)	0.090 U	ug/L	1.0	0.090	1	12/13/2021 12:53	12/19/2021 10:18	J
SEMIVOLATILES (EPA 525.2)								
Alachlor	0.38 U	ug/L	1.2	0.38	1	12/16/2021 08:00	12/17/2021 03:36	J
Atrazine	0.22 U	ug/L	1.2	0.22	1	12/16/2021 08:00	12/17/2021 03:36	J
Benzo[a]pyrene	0.038 U	ug/L	1.2	0.038	1	12/16/2021 08:00	12/17/2021 03:36	J
Di(2-ethylhexyl) adipate	1.2 U	ug/L	2.5	1.2	1	12/16/2021 08:00	12/17/2021 03:36	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Simazine	0.15 U	ug/L	1.2	0.15	1	12/16/2021 08:00	12/17/2021 03:36	J
bis(2-Ethylhexyl) phthalate	1.2 U	ug/L	5.0	1.2	1	12/16/2021 08:00	12/17/2021 03:36	J
SEMIVOLATILES (EPA 531.1)								
Carbofuran	0.51 U	ug/L	2.5	0.51	1	12/19/2021 02:32	12/19/2021 02:32	J
Oxamyl	1.8 U	ug/L	2.5	1.8	1	12/19/2021 02:32	12/19/2021 02:32	J
SEMIVOLATILES (EPA 547)								
Glyphosate	5.9 U	ug/L	50	5.9	1	12/15/2021 04:00	12/15/2021 04:00	J
SEMIVOLATILES (EPA 548.1)								
Endothall	6.0 U	ug/L	8.0	6.0	1	12/08/2021 11:20	12/11/2021 04:48	J
SEMIVOLATILES (EPA 549.2)								
Diquat	1.4 U	ug/L	19	1.4	1	12/07/2021 09:45	12/13/2021 19:22	J
SEMIVOLATILES (EPA 552.2)								
Bromoacetic Acid	**1.06**	ug/L	1.0	0.41	1	12/03/2021 10:00	12/07/2021 00:43	T
Chloroacetic Acid	0.98 U	ug/L	1.0	0.98	1	12/03/2021 10:00	12/07/2021 00:43	T
Dibromoacetic Acid	0.74 U	ug/L	1.0	0.74	1	12/03/2021 10:00	12/07/2021 00:43	T
Dichloroacetic Acid	0.42 U	ug/L	1.0	0.42	1	12/03/2021 10:00	12/07/2021 00:43	T
Total Haloacetic Acids (HAA5)	**1.06**	ug/L	1.0	0.98	1	12/03/2021 10:00	12/07/2021 00:43	T
Trichloroacetic Acid	0.94 U	ug/L	1.0	0.94	1	12/03/2021 10:00	12/07/2021 00:43	T
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.013 U	ug/L	0.020	0.013	1	12/08/2021 11:00	12/09/2021 01:35	M
4,4`-DDE	0.0083 U	ug/L	0.020	0.0083	1	12/08/2021 11:00	12/09/2021 01:35	M
4,4`-DDT	0.0097 U	ug/L	0.020	0.0097	1	12/08/2021 11:00	12/09/2021 01:35	M
Aldrin	0.0047 U	ug/L	0.020	0.0047	1	12/08/2021 11:00	12/09/2021 01:35	M
Dieldrin	0.0067 U	ug/L	0.020	0.0067	1	12/08/2021 11:00	12/09/2021 01:35	M
Endosulfan I	0.0039 U	ug/L	0.020	0.0039	1	12/08/2021 11:00	12/09/2021 01:35	M
Endosulfan II	0.0081 U	ug/L	0.020	0.0081	1	12/08/2021 11:00	12/09/2021 01:35	M
Endosulfan Sulfate	0.0077 U	ug/L	0.020	0.0077	1	12/08/2021 11:00	12/09/2021 01:35	M
Endrin Aldehyde	0.0049 U	ug/L	0.020	0.0049	1	12/08/2021 11:00	12/09/2021 01:35	M

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
alpha-BHC	0.010 U	ug/L	0.020	0.010	1	12/08/2021 11:00	12/09/2021 01:35	M
beta-BHC	0.0098 U	ug/L	0.020	0.0098	1	12/08/2021 11:00	12/09/2021 01:35	M
delta-BHC	0.0086 U	ug/L	0.020	0.0086	1	12/08/2021 11:00	12/09/2021 01:35	M
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.15 U	ug/L	0.20	0.15	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L	0.20	0.13	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L	0.20	0.19	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1242 (PCB-1242)	0.17 U	ug/L	0.20	0.17	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L	0.20	0.16	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1254 (PCB-1254)	0.041 U	ug/L	0.20	0.041	1	12/08/2021 11:00	12/09/2021 01:35	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L	0.20	0.15	1	12/08/2021 11:00	12/09/2021 01:35	M
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2-Diphenylhydrazine	1.6 U	ug/L	5.1	1.6	1	12/02/2021 13:15	12/03/2021 18:58	T
2,4,6-Trichlorophenol	1.3 U	ug/L	5.1	1.3	1	12/02/2021 13:15	12/03/2021 18:58	T
2,4-Dichlorophenol	0.32 U	ug/L	5.1	0.32	1	12/02/2021 13:15	12/03/2021 18:58	T
2,4-Dimethylphenol	**0.73 I**	ug/L	5.1	0.63	1	12/02/2021 13:15	12/03/2021 18:58	T
2,4-Dinitrophenol	2.3 U	ug/L	5.1	2.3	1	12/02/2021 13:15	12/03/2021 18:58	T
2,4-Dinitrotoluene (2,4-DNT)	2.3 U	ug/L	5.1	2.3	1	12/02/2021 13:15	12/03/2021 18:58	T
2,6-Dinitrotoluene (2,6-DNT)	**3.2 I**	ug/L	5.1	2.3	1	12/02/2021 13:15	12/03/2021 18:58	T
2-Chloronaphthalene	4.1 U	ug/L	5.1	4.1	1	12/02/2021 13:15	12/03/2021 18:58	T
2-Chlorophenol	1.6 U	ug/L	5.1	1.6	1	12/02/2021 13:15	12/03/2021 18:58	T
2-Methyl-4,6-dinitrophenol	2.2 U	ug/L	5.1	2.2	1	12/02/2021 13:15	12/03/2021 18:58	T
2-Nitrophenol	1.2 U	ug/L	5.1	1.2	1	12/02/2021 13:15	12/03/2021 18:58	T
3,3`-Dichlorobenzidine	1.1 U	ug/L	5.1	1.1	1	12/02/2021 13:15	12/03/2021 18:58	T
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.1	1.1	1	12/02/2021 13:15	12/03/2021 18:58	T
4-Chloro-3-methylphenol	0.84 U	ug/L	5.1	0.84	1	12/02/2021 13:15	12/03/2021 18:58	T
4-Chlorophenyl Phenyl Ether	0.79 U	ug/L	5.1	0.79	1	12/02/2021 13:15	12/03/2021 18:58	T

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
4-Nitrophenol	0.83 U	ug/L	5.1	0.83	1	12/02/2021 13:15	12/03/2021 18:58	T
Acenaphthene	**0.23**	ug/L	0.051	0.0070	1	12/02/2021 13:15	12/03/2021 18:58	T
Acenaphthylene	0.0080 U	ug/L	0.051	0.0080	1	12/02/2021 13:15	12/03/2021 18:58	T
Anthracene	**0.27**	ug/L	0.051	0.013	1	12/02/2021 13:15	12/03/2021 18:58	T
Benzidine	2.1 U	ug/L	5.1	2.1	1	12/02/2021 13:15	12/03/2021 18:58	T
Benzo[a]anthracene	0.011 U	ug/L	0.051	0.011	1	12/02/2021 13:15	12/03/2021 18:58	T
Benzo[b]fluoranthene	0.011 U	ug/L	0.025	0.011	1	12/02/2021 13:15	12/03/2021 18:58	T
Benzo[g,h,i]perylene	0.011 U	ug/L	0.051	0.011	1	12/02/2021 13:15	12/03/2021 18:58	T
Benzo[k]fluoranthene	0.0069 U	ug/L	0.051	0.0069	1	12/02/2021 13:15	12/03/2021 18:58	T
Butyl benzyl phthalate	1.1 U	ug/L	5.1	1.1	1	12/02/2021 13:15	12/03/2021 18:58	T
Chrysene	0.0078 U	ug/L	0.051	0.0078	1	12/02/2021 13:15	12/03/2021 18:58	T
Di-n-Butyl Phthalate	1.9 U	ug/L	5.1	1.9	1	12/02/2021 13:15	12/03/2021 18:58	T
Di-n-octyl Phthalate	2.0 U	ug/L	5.1	2.0	1	12/02/2021 13:15	12/03/2021 18:58	T
Dibenzo[a,h]anthracene	0.013 U	ug/L	0.051	0.013	1	12/02/2021 13:15	12/03/2021 18:58	T
Diethyl phthalate	1.3 U	ug/L	5.1	1.3	1	12/02/2021 13:15	12/03/2021 18:58	T
Dimethyl phthalate	1.1 U	ug/L	5.1	1.1	1	12/02/2021 13:15	12/03/2021 18:58	T
Fluoranthene	0.0094 U	ug/L	0.051	0.0094	1	12/02/2021 13:15	12/03/2021 18:58	T
Fluorene	0.0097 U	ug/L	0.051	0.0097	1	12/02/2021 13:15	12/03/2021 18:58	T
Hexachlorobutadiene	0.34 U	ug/L	5.1	0.34	1	12/02/2021 13:15	12/03/2021 18:58	T
Hexachloroethane	1.8 U	ug/L	5.1	1.8	1	12/02/2021 13:15	12/03/2021 18:58	T
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.051	0.011	1	12/02/2021 13:15	12/03/2021 18:58	T
Isophorone	0.70 U	ug/L	5.1	0.70	1	12/02/2021 13:15	12/03/2021 18:58	T
N-Nitrosodi-n-propylamine	1.5 U	ug/L	5.1	1.5	1	12/02/2021 13:15	12/03/2021 18:58	T
N-Nitrosodimethylamine	1.2 U	ug/L	5.1	1.2	1	12/02/2021 13:15	12/03/2021 18:58	T
N-Nitrosodiphenylamine	0.96 U	ug/L	5.1	0.96	1	12/02/2021 13:15	12/03/2021 18:58	T
Naphthalene	0.014 U	ug/L	0.051	0.014	1	12/02/2021 13:15	12/03/2021 18:58	T
Nitrobenzene	1.1 U	ug/L	5.1	1.1	1	12/02/2021 13:15	12/03/2021 18:58	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Phenanthrene	0.0092 U	ug/L	0.051	0.0092	1	12/02/2021 13:15	12/03/2021 18:58	T
Phenol	**1.5 I**	ug/L	5.1	1.0	1	12/02/2021 13:15	12/03/2021 18:58	T
Pyrene	0.0094 U	ug/L	0.051	0.0094	1	12/02/2021 13:15	12/03/2021 18:58	T
bis(2-Chloroethoxy)methane	1.0 U	ug/L	5.1	1.0	1	12/02/2021 13:15	12/03/2021 18:58	T
bis(2-Chloroethyl)Ether	0.46 U	ug/L	5.1	0.46	1	12/02/2021 13:15	12/03/2021 18:58	T
bis(2-Chloroisopropyl) Ether	0.38 U	ug/L	5.1	0.38	1	12/02/2021 13:15	12/03/2021 18:58	T
bis(2-Ethylhexyl) phthalate	2.3 U	ug/L	5.1	2.3	1	12/02/2021 13:15	12/03/2021 18:58	T
VOLATILES (EPA 524.2)								
1,1,1-Trichloroethane	0.29 U	ug/L	1.0	0.29	1	12/07/2021 00:44	12/07/2021 00:44	T
1,1,2-Trichloroethane	0.27 U	ug/L	1.0	0.27	1	12/07/2021 00:44	12/07/2021 00:44	T
1,1-Dichloroethylene	0.22 U	ug/L	1.0	0.22	1	12/07/2021 00:44	12/07/2021 00:44	T
1,2,4-Trichlorobenzene	0.44 U	ug/L	1.0	0.44	1	12/07/2021 00:44	12/07/2021 00:44	T
1,2-Dichlorobenzene	0.39 U	ug/L	1.0	0.39	1	12/07/2021 00:44	12/07/2021 00:44	T
1,2-Dichloroethane	0.24 U	ug/L	1.0	0.24	1	12/07/2021 00:44	12/07/2021 00:44	T
1,2-Dichloropropane	0.26 U	ug/L	1.0	0.26	1	12/07/2021 00:44	12/07/2021 00:44	T
1,4-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	1	12/07/2021 00:44	12/07/2021 00:44	T
Benzene	**2.1**	ug/L	1.0	0.26	1	12/07/2021 00:44	12/07/2021 00:44	T
Bromodichloromethane	0.42 U	ug/L	1.0	0.42	1	12/07/2021 00:44	12/07/2021 00:44	T
Bromoform	0.45 U	ug/L	1.0	0.45	1	12/07/2021 00:44	12/07/2021 00:44	T
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	12/07/2021 00:44	12/07/2021 00:44	T
Chlorobenzene	0.36 U	ug/L	1.0	0.36	1	12/07/2021 00:44	12/07/2021 00:44	T
Chloroform	0.32 U	ug/L	1.0	0.32	1	12/07/2021 00:44	12/07/2021 00:44	T
Dibromochloromethane	0.37 U	ug/L	1.0	0.37	1	12/07/2021 00:44	12/07/2021 00:44	T
Ethylbenzene	0.31 U	ug/L	1.0	0.31	1	12/07/2021 00:44	12/07/2021 00:44	T
Methylene Chloride	0.44 U	ug/L	1.0	0.44	1	12/07/2021 00:44	12/07/2021 00:44	T
Styrene	0.25 U	ug/L	1.0	0.25	1	12/07/2021 00:44	12/07/2021 00:44	T
Tetrachloroethylene (PCE)	0.42 U	ug/L	1.0	0.42	1	12/07/2021 00:44	12/07/2021 00:44	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Toluene	0.33 U	ug/L	1.0	0.33	1	12/07/2021 00:44	12/07/2021 00:44	T
Total Trihalomethanes	0.45 U	ug/L	1.0	0.45	1	12/07/2021 00:44	12/07/2021 00:44	T
Trichloroethene	0.14 U	ug/L	1.0	0.14	1	12/07/2021 00:44	12/07/2021 00:44	T
Vinyl Chloride	0.29 U	ug/L	1.0	0.29	1	12/07/2021 00:44	12/07/2021 00:44	T
Xylene (Total)	0.44 U	ug/L	3.0	0.44	1	12/07/2021 00:44	12/07/2021 00:44	T
cis-1,2-Dichloroethylene	0.27 U	ug/L	1.0	0.27	1	12/07/2021 00:44	12/07/2021 00:44	T
trans-1,2-Dichloroethylene	0.21 U	ug/L	1.0	0.21	1	12/07/2021 00:44	12/07/2021 00:44	T
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	12/05/2021 23:16	12/06/2021 11:29	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	1	12/05/2021 23:16	12/06/2021 11:29	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	1	12/05/2021 23:16	12/06/2021 11:29	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	1	12/05/2021 23:16	12/06/2021 11:29	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	1	12/05/2021 23:16	12/06/2021 11:29	T
Acrylonitrile	**0.98 I**	ug/L	5.0	0.38	1	12/05/2021 23:16	12/06/2021 11:29	T
Bromomethane	0.32 U	ug/L	1.0	0.32	1	12/05/2021 23:16	12/06/2021 11:29	T
Chloroethane	0.42 U	ug/L	1.0	0.42	1	12/05/2021 23:16	12/06/2021 11:29	T
Chloromethane	0.39 U	ug/L	1.0	0.39	1	12/05/2021 23:16	12/06/2021 11:29	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	1	12/05/2021 23:16	12/06/2021 11:29	T
WET CHEMISTRY (EPA 300.0)								
Chloride	**2000**	mg/L	500	100	100	12/08/2021 18:07	12/08/2021 18:07	T
Fluoride	20 U	mg/L	50	20	100	12/08/2021 18:07	12/08/2021 18:07	T
Sulfate	100 U	mg/L	500	100	100	12/08/2021 18:07	12/08/2021 18:07	T
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	**1620**	mg/L	50	20	1	12/06/2021 14:10	12/06/2021 14:10	T
WET CHEMISTRY (SM 2120 B)								
Color	**294**	PCU	50	43	10	12/02/2021 16:30	12/02/2021 16:30	T
pH for Color Analysis	**7.74**	SU	5	0.10		12/02/2021 16:30	12/02/2021 16:30	T
WET CHEMISTRY (SM 2150 B)								

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789001 **Date Collected:** 12/02/2021 09:40 **Matrix:** Water
Sample ID: Leachate Effluent **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Odor	**4**	TON @ 40°C	1	1.0	1	12/02/2021 12:30	12/02/2021 12:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	**8130**	mg/L	10	10	1	12/07/2021 16:30	12/07/2021 16:30	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	**23**	mg/L	2	2.0	2	12/08/2021 14:00	12/08/2021 14:00	T
WET CHEMISTRY (SM 3500-CR D)								
Hexavalent Chromium	**0.005 I**	mg/L	0.01	0.0021	1	12/02/2021 15:00	12/02/2021 15:00	T
WET CHEMISTRY (SM 4500-CN-E)								
Cyanide	0.0040 U	mg/L	0.01	0.0040	1	12/14/2021 12:27	12/14/2021 12:27	T
WET CHEMISTRY (SM 4500H+B)								
pH	**7.49**	SU	0.1	0.1	1	12/09/2021 13:10	12/09/2021 13:10	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.46 U	mg/L	0.5	0.46	5	12/02/2021 16:40	12/02/2021 16:40	T
Nitrite (as N)	**2**	mg/L	0.5	0.40	5	12/02/2021 16:40	12/02/2021 16:40	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	**13**	mg/L	2	2.0	1	12/02/2021 13:17	12/02/2021 13:17	T
WET CHEMISTRY (SM 5540 C)								
MBAS,as LAS,mol.wt.348	**0.4 I**	mg/L	0.4	0.080	2	12/03/2021 09:00	12/03/2021 09:00	G

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Analysis Results Comments

2,4-Dichlorophenylacetic acid

J4|Estimated Result

Biochemical Oxygen Demand

J4- The sample's relative percent difference between the analyzed aliquots is greater than 30%.

Decachlorobiphenyl

J4|Estimated Result

Dinoseb

See Case Narration

Endothall

See Case Narration

Sodium

J4|Estimated Result

Tetrachloro-m-xylene

J4|Estimated Result

Toluene-d8

J1|Surrogate Failure

p-Terphenyl-d14

J4|Estimated Result

pH

Q|Missed Hold Time

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	51	103	70 - 128	T
Toluene-d8 (S)	ug/L	50	37	**74**	77 - 119	T
Bromofluorobenzene (S)	ug/L	50	50	100	86 - 123	T
1,2-Dichloroethane-d4 (S)	ug/L	50	54	107	70 - 130	T
Toluene-d8 (S)	ug/L	50	42	84	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	52	103	70 - 130	T
1,2-Dichloroethane-d4 (S)	ug/L	50	54	107	70 - 130	T
Toluene-d8 (S)	ug/L	50	42	84	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	52	103	70 - 130	T

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	ug/L	12	13	103	70 - 130	J
Decachlorobiphenyl (S)	ug/L	0.51	0.12	**23**	48 - 137	M
Tetrachloro-m-xylene (S)	ug/L	1	0.58	57	44 - 124	M
2,4,6-Tribromophenol (S)	ug/L	51	44	87	48 - 147	T
Phenol-d6 (S)	ug/L	51	22	44	24 - 120	T
2-Fluorobiphenyl (S)	ug/L	51	36	70	42 - 138	T
2-Fluorophenol (S)	ug/L	51	25	49	31 - 134	T
Nitrobenzene-d5 (S)	ug/L	51	40	80	38 - 139	T
p-Terphenyl-d14 (S)	ug/L	51	37	73	61 - 154	T
Tetrachloro-m-xylene (S)	ug/L	1	0.65	65	64 - 150	T
Decachlorobiphenyl (S)	ug/L	0.51	0.12	**23**	44 - 136	M
Tetrachloro-m-xylene (S)	ug/L	1	0.58	**57**	61 - 119	M
2,3-Dibromopropionic Acid (S)	ug/L	20	20	99	70 - 130	T
Decachlorobiphenyl (S)	ug/L	0.50	0.28	**56**	70 - 130	J
2,4-Dichlorophenylacetic acid (S)	ug/L	25	6.20	**25**	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (EPA 200.7)								
Aluminum	0.021 U	mg/L	0.10	0.021	1	12/13/2021 13:00	12/14/2021 10:28	T
Barium	0.0030 U	mg/L	0.010	0.0030	1	12/13/2021 13:00	12/14/2021 10:28	T
Beryllium	0.0020 U	mg/L	0.010	0.0020	1	12/13/2021 13:00	12/14/2021 10:28	T
Chromium	0.0050 U	mg/L	0.010	0.0050	1	12/13/2021 13:00	12/14/2021 10:28	T
Iron	0.0067 U	mg/L	0.10	0.0067	1	12/13/2021 13:00	12/14/2021 10:28	T
Nickel	0.0080 U	mg/L	0.010	0.0080	1	12/13/2021 13:00	12/14/2021 10:28	T
Sodium	0.80 U	mg/L	1.0	0.80	1	12/13/2021 13:00	12/14/2021 10:28	T
Zinc	0.050 U	mg/L	0.10	0.050	1	12/13/2021 13:00	12/14/2021 10:28	T
METALS (EPA 200.8)								
Antimony	0.0010 U	mg/L	0.0040	0.0010	1	12/09/2021 11:53	12/14/2021 23:38	J
Arsenic	0.00025 U	mg/L	0.0010	0.00025	1	12/09/2021 11:53	12/14/2021 23:38	J
Cadmium	0.00025 U	mg/L	0.0010	0.00025	1	12/09/2021 11:53	12/14/2021 23:38	J
Copper	0.0010 U	mg/L	0.0040	0.0010	1	12/09/2021 11:53	12/14/2021 23:38	J
Lead	0.00050 U	mg/L	0.0020	0.00050	1	12/09/2021 11:53	12/14/2021 23:38	J
Manganese	0.0010 U	mg/L	0.0040	0.0010	1	12/09/2021 11:53	12/14/2021 23:38	J
Selenium	0.0012 U	mg/L	0.0050	0.0012	1	12/09/2021 11:53	12/14/2021 23:38	J
Silver	0.00050 U	mg/L	0.0020	0.00050	1	12/09/2021 11:53	12/14/2021 23:38	J
Thallium	0.00025 U	mg/L	0.0010	0.00025	1	12/09/2021 11:53	12/14/2021 23:38	J
Uranium	0.20 U	ug/L	0.80	0.20	1	12/09/2021 11:53	12/14/2021 23:38	J
METALS (EPA 245.1)								
Mercury	0.000028 U	mg/L	0.00010	0.000028	1	12/09/2021 09:30	12/09/2021 15:41	T
SEMIVOLATILES (EPA 504.1)								
1,2-Dibromo-3-Chloropropane	0.0048 U	ug/L	0.020	0.0048	1	12/09/2021 12:00	12/10/2021 04:43	T
Ethylene Dibromide (EDB)	0.0074 U	ug/L	0.020	0.0074	1	12/09/2021 12:00	12/10/2021 04:43	T
SEMIVOLATILES (EPA 508)								
Chlordane (technical)	0.053 U	ug/L	0.20	0.053	1	12/08/2021 06:30	12/17/2021 09:23	J

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Endrin	0.0069 U	ug/L	0.020	0.0069	1	12/08/2021 06:30	12/17/2021 09:23	J
Heptachlor	0.0060 U	ug/L	0.020	0.0060	1	12/08/2021 06:30	12/17/2021 09:23	J
Heptachlor Epoxide	0.0052 U	ug/L	0.020	0.0052	1	12/08/2021 06:30	12/17/2021 09:23	J
Hexachlorobenzene	0.0063 U	ug/L	0.020	0.0063	1	12/08/2021 06:30	12/17/2021 09:23	J
Hexachlorocyclopentadiene	0.019 U	ug/L	0.020	0.019	1	12/08/2021 06:30	12/17/2021 09:23	J
Methoxychlor	0.0068 U	ug/L	0.020	0.0068	1	12/08/2021 06:30	12/17/2021 09:23	J
PCBs	0.093 U	ug/L	0.20	0.093	1	12/08/2021 06:30	12/17/2021 09:23	J
Toxaphene	0.12 U	ug/L	0.20	0.12	1	12/08/2021 06:30	12/17/2021 09:23	J
gamma-BHC (Lindane)	0.0071 U	ug/L	0.020	0.0071	1	12/08/2021 06:30	12/17/2021 09:23	J
SEMIVOLATILES (EPA 515.3)								
2,4-D	0.095 U	ug/L	5.0	0.095	1	12/13/2021 12:53	12/19/2021 23:21	J
Dalapon	0.90 U	ug/L	5.0	0.90	1	12/13/2021 12:53	12/19/2021 23:21	J
Dinoseb	0.18 U	ug/L	2.5	0.18	1	12/13/2021 12:53	12/19/2021 23:21	J
Pentachlorophenol	0.038 U	ug/L	0.50	0.038	1	12/13/2021 12:53	12/19/2021 23:21	J
Picloram	0.090 U	ug/L	0.50	0.090	1	12/13/2021 12:53	12/19/2021 23:21	J
Silvex (2,4,5-TP)	0.090 U	ug/L	1.0	0.090	1	12/13/2021 12:53	12/19/2021 23:21	J
SEMIVOLATILES (EPA 525.2)								
Alachlor	0.15 U	ug/L	0.50	0.15	1	12/14/2021 08:00	12/15/2021 09:54	J
Atrazine	0.090 U	ug/L	0.50	0.090	1	12/14/2021 08:00	12/15/2021 09:54	J
Benzo[a]pyrene	0.015 U	ug/L	0.50	0.015	1	12/14/2021 08:00	12/15/2021 09:54	J
Di(2-ethylhexyl) adipate	0.50 U	ug/L	1.0	0.50	1	12/14/2021 08:00	12/15/2021 09:54	J
Simazine	0.060 U	ug/L	0.50	0.060	1	12/14/2021 08:00	12/15/2021 09:54	J
bis(2-Ethylhexyl) phthalate	0.50 U	ug/L	2.0	0.50	1	12/14/2021 08:00	12/15/2021 09:54	J
SEMIVOLATILES (EPA 531.1)								
Carbofuran	0.51 U	ug/L	2.5	0.51	1	12/19/2021 03:09	12/19/2021 03:09	J
Oxamyl	1.8 U	ug/L	2.5	1.8	1	12/19/2021 03:09	12/19/2021 03:09	J
SEMIVOLATILES (EPA 547)								
Glyphosate	5.9 U	ug/L	50	5.9	1	12/15/2021 03:16	12/15/2021 03:16	J

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (EPA 548.1)								
Endothall	6.0 U	ug/L	8.0	6.0	1	12/08/2021 11:20	12/11/2021 05:02	J
SEMIVOLATILES (EPA 549.2)								
Diquat	0.37 U	ug/L	5.0	0.37	1	12/07/2021 09:45	12/13/2021 19:33	J
SEMIVOLATILES (EPA 552.2)								
Bromoacetic Acid	0.41 U	ug/L	1.0	0.41	1	12/03/2021 10:00	12/07/2021 01:07	T
Chloroacetic Acid	0.98 U	ug/L	1.0	0.98	1	12/03/2021 10:00	12/07/2021 01:07	T
Dibromoacetic Acid	0.74 U	ug/L	1.0	0.74	1	12/03/2021 10:00	12/07/2021 01:07	T
Dichloroacetic Acid	0.42 U	ug/L	1.0	0.42	1	12/03/2021 10:00	12/07/2021 01:07	T
Total Haloacetic Acids (HAA5)	0.98 U	ug/L	1.0	0.98	1	12/03/2021 10:00	12/07/2021 01:07	T
Trichloroacetic Acid	0.94 U	ug/L	1.0	0.94	1	12/03/2021 10:00	12/07/2021 01:07	T
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.013 U	ug/L	0.020	0.013	1	12/08/2021 11:00	12/09/2021 01:57	M
4,4`-DDE	0.0083 U	ug/L	0.020	0.0083	1	12/08/2021 11:00	12/09/2021 01:57	M
4,4`-DDT	0.0097 U	ug/L	0.020	0.0097	1	12/08/2021 11:00	12/09/2021 01:57	M
Aldrin	0.0047 U	ug/L	0.020	0.0047	1	12/08/2021 11:00	12/09/2021 01:57	M
Dieldrin	0.0067 U	ug/L	0.020	0.0067	1	12/08/2021 11:00	12/09/2021 01:57	M
Endosulfan I	0.0039 U	ug/L	0.020	0.0039	1	12/08/2021 11:00	12/09/2021 01:57	M
Endosulfan II	0.0081 U	ug/L	0.020	0.0081	1	12/08/2021 11:00	12/09/2021 01:57	M
Endosulfan Sulfate	0.0077 U	ug/L	0.020	0.0077	1	12/08/2021 11:00	12/09/2021 01:57	M
Endrin Aldehyde	0.0049 U	ug/L	0.020	0.0049	1	12/08/2021 11:00	12/09/2021 01:57	M
alpha-BHC	0.010 U	ug/L	0.020	0.010	1	12/08/2021 11:00	12/09/2021 01:57	M
beta-BHC	0.0098 U	ug/L	0.020	0.0098	1	12/08/2021 11:00	12/09/2021 01:57	M
delta-BHC	0.0086 U	ug/L	0.020	0.0086	1	12/08/2021 11:00	12/09/2021 01:57	M
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.15 U	ug/L	0.20	0.15	1	12/08/2021 11:00	12/09/2021 01:57	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L	0.20	0.13	1	12/08/2021 11:00	12/09/2021 01:57	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L	0.20	0.19	1	12/08/2021 11:00	12/09/2021 01:57	M

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Aroclor 1242 (PCB-1242)	0.17 U	ug/L	0.20	0.17	1	12/08/2021 11:00	12/09/2021 01:57	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L	0.20	0.16	1	12/08/2021 11:00	12/09/2021 01:57	M
Aroclor 1254 (PCB-1254)	0.041 U	ug/L	0.20	0.041	1	12/08/2021 11:00	12/09/2021 01:57	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L	0.20	0.15	1	12/08/2021 11:00	12/09/2021 01:57	M
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2-Diphenylhydrazine	1.6 U	ug/L	5.0	1.6	1	12/02/2021 13:15	12/03/2021 17:43	T
2,4,6-Trichlorophenol	1.3 U	ug/L	5.0	1.3	1	12/02/2021 13:15	12/03/2021 17:43	T
2,4-Dichlorophenol	0.32 U	ug/L	5.0	0.32	1	12/02/2021 13:15	12/03/2021 17:43	T
2,4-Dimethylphenol	0.62 U	ug/L	5.0	0.62	1	12/02/2021 13:15	12/03/2021 17:43	T
2,4-Dinitrophenol	2.3 U	ug/L	5.0	2.3	1	12/02/2021 13:15	12/03/2021 17:43	T
2,4-Dinitrotoluene (2,4-DNT)	2.3 U	ug/L	5.0	2.3	1	12/02/2021 13:15	12/03/2021 17:43	T
2,6-Dinitrotoluene (2,6-DNT)	2.2 U	ug/L	5.0	2.2	1	12/02/2021 13:15	12/03/2021 17:43	T
2-Chloronaphthalene	4.0 U	ug/L	5.0	4.0	1	12/02/2021 13:15	12/03/2021 17:43	T
2-Chlorophenol	1.6 U	ug/L	5.0	1.6	1	12/02/2021 13:15	12/03/2021 17:43	T
2-Methyl-4,6-dinitrophenol	2.2 U	ug/L	5.0	2.2	1	12/02/2021 13:15	12/03/2021 17:43	T
2-Nitrophenol	1.2 U	ug/L	5.0	1.2	1	12/02/2021 13:15	12/03/2021 17:43	T
3,3`-Dichlorobenzidine	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
4-Chloro-3-methylphenol	0.84 U	ug/L	5.0	0.84	1	12/02/2021 13:15	12/03/2021 17:43	T
4-Chlorophenyl Phenyl Ether	0.79 U	ug/L	5.0	0.79	1	12/02/2021 13:15	12/03/2021 17:43	T
4-Nitrophenol	0.83 U	ug/L	5.0	0.83	1	12/02/2021 13:15	12/03/2021 17:43	T
Acenaphthene	0.0070 U	ug/L	0.050	0.0070	1	12/02/2021 13:15	12/03/2021 17:43	T
Acenaphthylene	0.0080 U	ug/L	0.050	0.0080	1	12/02/2021 13:15	12/03/2021 17:43	T
Anthracene	0.013 U	ug/L	0.050	0.013	1	12/02/2021 13:15	12/03/2021 17:43	T
Benzidine	2.1 U	ug/L	5.0	2.1	1	12/02/2021 13:15	12/03/2021 17:43	T
Benzo[a]anthracene	0.011 U	ug/L	0.050	0.011	1	12/02/2021 13:15	12/03/2021 17:43	T
Benzo[b]fluoranthene	0.011 U	ug/L	0.025	0.011	1	12/02/2021 13:15	12/03/2021 17:43	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[g,h,i]perylene	0.011 U	ug/L	0.050	0.011	1	12/02/2021 13:15	12/03/2021 17:43	T
Benzo[k]fluoranthene	0.0068 U	ug/L	0.050	0.0068	1	12/02/2021 13:15	12/03/2021 17:43	T
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
Chrysene	0.0078 U	ug/L	0.050	0.0078	1	12/02/2021 13:15	12/03/2021 17:43	T
Di-n-Butyl Phthalate	1.9 U	ug/L	5.0	1.9	1	12/02/2021 13:15	12/03/2021 17:43	T
Di-n-octyl Phthalate	2.0 U	ug/L	5.0	2.0	1	12/02/2021 13:15	12/03/2021 17:43	T
Dibenzo[a,h]anthracene	0.013 U	ug/L	0.050	0.013	1	12/02/2021 13:15	12/03/2021 17:43	T
Diethyl phthalate	1.3 U	ug/L	5.0	1.3	1	12/02/2021 13:15	12/03/2021 17:43	T
Dimethyl phthalate	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
Fluoranthene	0.0094 U	ug/L	0.050	0.0094	1	12/02/2021 13:15	12/03/2021 17:43	T
Fluorene	0.0096 U	ug/L	0.050	0.0096	1	12/02/2021 13:15	12/03/2021 17:43	T
Hexachlorobutadiene	0.34 U	ug/L	5.0	0.34	1	12/02/2021 13:15	12/03/2021 17:43	T
Hexachloroethane	1.8 U	ug/L	5.0	1.8	1	12/02/2021 13:15	12/03/2021 17:43	T
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.050	0.011	1	12/02/2021 13:15	12/03/2021 17:43	T
Isophorone	0.70 U	ug/L	5.0	0.70	1	12/02/2021 13:15	12/03/2021 17:43	T
N-Nitrosodi-n-propylamine	1.5 U	ug/L	5.0	1.5	1	12/02/2021 13:15	12/03/2021 17:43	T
N-Nitrosodimethylamine	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
N-Nitrosodiphenylamine	0.95 U	ug/L	5.0	0.95	1	12/02/2021 13:15	12/03/2021 17:43	T
Naphthalene	**0.034 I**	ug/L	0.050	0.014	1	12/02/2021 13:15	12/03/2021 17:43	T
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	12/02/2021 13:15	12/03/2021 17:43	T
Phenanthrene	0.0091 U	ug/L	0.050	0.0091	1	12/02/2021 13:15	12/03/2021 17:43	T
Phenol	1.0 U	ug/L	5.0	1.0	1	12/02/2021 13:15	12/03/2021 17:43	T
Pyrene	0.0093 U	ug/L	0.050	0.0093	1	12/02/2021 13:15	12/03/2021 17:43	T
bis(2-Chloroethoxy)methane	1.0 U	ug/L	5.0	1.0	1	12/02/2021 13:15	12/03/2021 17:43	T
bis(2-Chloroethyl)Ether	0.46 U	ug/L	5.0	0.46	1	12/02/2021 13:15	12/03/2021 17:43	T
bis(2-Chloroisopropyl) Ether	0.38 U	ug/L	5.0	0.38	1	12/02/2021 13:15	12/03/2021 17:43	T
bis(2-Ethylhexyl) phthalate	2.3 U	ug/L	5.0	2.3	1	12/02/2021 13:15	12/03/2021 17:43	T

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (EPA 524.2)								
1,1,1-Trichloroethane	0.29 U	ug/L	1.0	0.29	1	12/07/2021 01:11	12/07/2021 01:11	T
1,1,2-Trichloroethane	0.27 U	ug/L	1.0	0.27	1	12/07/2021 01:11	12/07/2021 01:11	T
1,1-Dichloroethylene	0.22 U	ug/L	1.0	0.22	1	12/07/2021 01:11	12/07/2021 01:11	T
1,2,4-Trichlorobenzene	0.44 U	ug/L	1.0	0.44	1	12/07/2021 01:11	12/07/2021 01:11	T
1,2-Dichlorobenzene	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:11	12/07/2021 01:11	T
1,2-Dichloroethane	0.24 U	ug/L	1.0	0.24	1	12/07/2021 01:11	12/07/2021 01:11	T
1,2-Dichloropropane	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:11	12/07/2021 01:11	T
1,4-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	1	12/07/2021 01:11	12/07/2021 01:11	T
Benzene	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:11	12/07/2021 01:11	T
Bromodichloromethane	0.42 U	ug/L	1.0	0.42	1	12/07/2021 01:11	12/07/2021 01:11	T
Bromoform	0.45 U	ug/L	1.0	0.45	1	12/07/2021 01:11	12/07/2021 01:11	T
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	12/07/2021 01:11	12/07/2021 01:11	T
Chlorobenzene	0.36 U	ug/L	1.0	0.36	1	12/07/2021 01:11	12/07/2021 01:11	T
Chloroform	0.32 U	ug/L	1.0	0.32	1	12/07/2021 01:11	12/07/2021 01:11	T
Dibromochloromethane	0.37 U	ug/L	1.0	0.37	1	12/07/2021 01:11	12/07/2021 01:11	T
Ethylbenzene	0.31 U	ug/L	1.0	0.31	1	12/07/2021 01:11	12/07/2021 01:11	T
Methylene Chloride	0.44 U	ug/L	1.0	0.44	1	12/07/2021 01:11	12/07/2021 01:11	T
Styrene	0.25 U	ug/L	1.0	0.25	1	12/07/2021 01:11	12/07/2021 01:11	T
Tetrachloroethylene (PCE)	0.42 U	ug/L	1.0	0.42	1	12/07/2021 01:11	12/07/2021 01:11	T
Toluene	0.33 U	ug/L	1.0	0.33	1	12/07/2021 01:11	12/07/2021 01:11	T
Total Trihalomethanes	0.45 U	ug/L	1.0	0.45	1	12/07/2021 01:11	12/07/2021 01:11	T
Trichloroethene	0.14 U	ug/L	1.0	0.14	1	12/07/2021 01:11	12/07/2021 01:11	T
Vinyl Chloride	0.29 U	ug/L	1.0	0.29	1	12/07/2021 01:11	12/07/2021 01:11	T
Xylene (Total)	0.44 U	ug/L	3.0	0.44	1	12/07/2021 01:11	12/07/2021 01:11	T
cis-1,2-Dichloroethylene	0.27 U	ug/L	1.0	0.27	1	12/07/2021 01:11	12/07/2021 01:11	T
trans-1,2-Dichloroethylene	0.21 U	ug/L	1.0	0.21	1	12/07/2021 01:11	12/07/2021 01:11	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	12/07/2021 01:17	12/07/2021 05:59	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	1	12/07/2021 01:17	12/07/2021 05:59	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	1	12/07/2021 01:17	12/07/2021 05:59	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	1	12/07/2021 01:17	12/07/2021 05:59	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	1	12/07/2021 01:17	12/07/2021 05:59	T
Acrylonitrile	0.38 U	ug/L	5.0	0.38	1	12/07/2021 01:17	12/07/2021 05:59	T
Bromomethane	0.32 U	ug/L	1.0	0.32	1	12/07/2021 01:17	12/07/2021 05:59	T
Chloroethane	0.42 U	ug/L	1.0	0.42	1	12/07/2021 01:17	12/07/2021 05:59	T
Chloromethane	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 05:59	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:17	12/07/2021 05:59	T
WET CHEMISTRY (EPA 300.0)								
Chloride	1.0 U	mg/L	5.0	1.0	1	12/08/2021 18:23	12/08/2021 18:23	T
Fluoride	0.20 U	mg/L	0.50	0.20	1	12/08/2021 18:23	12/08/2021 18:23	T
Sulfate	1.0 U	mg/L	5.0	1.0	1	12/08/2021 18:23	12/08/2021 18:23	T
WET CHEMISTRY (EPA 410.4)								
Chemical Oxygen Demand	20 U	mg/L	50	20	1	12/06/2021 14:10	12/06/2021 14:10	T
WET CHEMISTRY (SM 2120 B)								
Color	4.3 U	PCU	5	4.3	1	12/02/2021 16:30	12/02/2021 16:30	T
pH for Color Analysis	**6.17**	SU	5	0.10		12/02/2021 16:30	12/02/2021 16:30	T
WET CHEMISTRY (SM 2150 B)								
Odor	1.0 U	TON @ 40°C	1	1.0	1	12/02/2021 12:30	12/02/2021 12:30	T
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	12/07/2021 16:30	12/07/2021 16:30	T
WET CHEMISTRY (SM 2540D)								
Total Suspended Solids	1.0 U	mg/L	1	1.0	1	12/08/2021 14:00	12/08/2021 14:00	T
WET CHEMISTRY (SM 3500-CR D)								
Hexavalent Chromium	0.0021 U	mg/L	0.01	0.0021	1	12/02/2021 15:00	12/02/2021 15:00	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789002 **Date Collected:** 12/02/2021 09:05 **Matrix:** Water
Sample ID: Field Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 4500-CN-E)								
Cyanide	0.0040 U	mg/L	0.01	0.0040	1	12/14/2021 11:54	12/14/2021 11:54	T
WET CHEMISTRY (SM 4500H+B)								
pH	**6.99**	SU	0.1	0.1	1	12/09/2021 13:10	12/09/2021 13:10	T
WET CHEMISTRY (SM 4500NO3-F)								
Nitrate (as N)	0.092 U	mg/L	0.1	0.092	1	12/02/2021 16:41	12/02/2021 16:41	T
Nitrite (as N)	0.081 U	mg/L	0.1	0.081	1	12/02/2021 16:41	12/02/2021 16:41	T
WET CHEMISTRY (SM 5210B)								
Biochemical Oxygen Demand	2.0 U	mg/L	2	2.0	1	12/02/2021 13:22	12/02/2021 13:22	T
WET CHEMISTRY (SM 5540 C)								
MBAS,as LAS,mol.wt.348	**0.05 I**	mg/L	0.2	0.040	1	12/03/2021 09:00	12/03/2021 09:00	G

Task Comments

2077166 - CVAt/1440

J4

Analysis Results Comments

2,4-Dichlorophenylacetic acid

J4|Estimated Result

Endothall

See Case Narration

Tetrachloro-m-xylene

J4|Estimated Result

pH

Q|Missed Hold Time

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	36	73	70 - 128	T
Toluene-d8 (S)	ug/L	50	48	97	77 - 119	T
Bromofluorobenzene (S)	ug/L	50	50	100	86 - 123	T
Bromofluorobenzene (S)	ug/L	50	53	105	70 - 130	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Toluene-d8 (S)	ug/L	50	41	82	70 - 130	T
1,2-Dichloroethane-d4 (S)	ug/L	50	55	110	70 - 130	T
1,2-Dichloroethane-d4 (S)	ug/L	50	55	110	70 - 130	T
Toluene-d8 (S)	ug/L	50	41	82	70 - 130	T
Bromofluorobenzene (S)	ug/L	50	53	105	70 - 130	T
p-Terphenyl-d14 (S)	ug/L	5	5.40	108	70 - 130	J
Decachlorobiphenyl (S)	ug/L	0.51	0.33	65	48 - 137	M
Tetrachloro-m-xylene (S)	ug/L	1	0.50	49	44 - 124	M
2,4,6-Tribromophenol (S)	ug/L	50	37	74	48 - 147	T
Phenol-d6 (S)	ug/L	50	12	24	24 - 120	T
2-Fluorobiphenyl (S)	ug/L	50	35	69	42 - 138	T
2-Fluorophenol (S)	ug/L	50	19	39	31 - 134	T
Nitrobenzene-d5 (S)	ug/L	50	38	76	38 - 139	T
p-Terphenyl-d14 (S)	ug/L	50	45	90	61 - 154	T
Tetrachloro-m-xylene (S)	ug/L	1	1.10	114	64 - 150	T
Decachlorobiphenyl (S)	ug/L	0.51	0.33	65	44 - 136	M
Tetrachloro-m-xylene (S)	ug/L	1	0.50	**49**	61 - 119	M
2,3-Dibromopropionic Acid (S)	ug/L	20	17	86	70 - 130	T
Decachlorobiphenyl (S)	ug/L	0.50	0.49	98	70 - 130	J
2,4-Dichlorophenylacetic acid (S)	ug/L	25	6.30	**25**	70 - 130	J

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Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789003 **Date Collected:** 12/02/2021 00:00 **Matrix:** Water
Sample ID: Travel Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,1-Trichloroethane	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	12/07/2021 01:17	12/07/2021 06:24	T
1,1,2-Trichloroethane	0.40 U	ug/L	1.0	0.40	1	12/07/2021 01:17	12/07/2021 06:24	T
1,1-Dichloroethane	0.38 U	ug/L	1.0	0.38	1	12/07/2021 01:17	12/07/2021 06:24	T
1,1-Dichloroethylene	0.41 U	ug/L	1.0	0.41	1	12/07/2021 01:17	12/07/2021 06:24	T
1,2,4-Trimethylbenzene	0.41 U	ug/L	1.0	0.41	1	12/07/2021 01:17	12/07/2021 06:24	T
1,2-Dichlorobenzene	0.44 U	ug/L	1.0	0.44	1	12/07/2021 01:17	12/07/2021 06:24	T
1,2-Dichloroethane	0.40 U	ug/L	1.0	0.40	1	12/07/2021 01:17	12/07/2021 06:24	T
1,2-Dichloropropane	0.18 U	ug/L	1.0	0.18	1	12/07/2021 01:17	12/07/2021 06:24	T
1,3,5-Trimethylbenzene	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
1,3-Dichlorobenzene	0.40 U	ug/L	1.0	0.40	1	12/07/2021 01:17	12/07/2021 06:24	T
1,4-Dichlorobenzene	0.36 U	ug/L	1.0	0.36	1	12/07/2021 01:17	12/07/2021 06:24	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L	1.0	0.79	1	12/07/2021 01:17	12/07/2021 06:24	T
Acrolein (Propenal)	1.8 U	ug/L	4.0	1.8	1	12/07/2021 01:17	12/07/2021 06:24	T
Acrylonitrile	0.38 U	ug/L	5.0	0.38	1	12/07/2021 01:17	12/07/2021 06:24	T
Benzene	0.28 U	ug/L	1.0	0.28	1	12/07/2021 01:17	12/07/2021 06:24	T
Bromodichloromethane	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
Bromoform	0.36 U	ug/L	1.0	0.36	1	12/07/2021 01:17	12/07/2021 06:24	T
Bromomethane	0.32 U	ug/L	1.0	0.32	1	12/07/2021 01:17	12/07/2021 06:24	T
Carbon Tetrachloride	0.41 U	ug/L	1.0	0.41	1	12/07/2021 01:17	12/07/2021 06:24	T
Chlorobenzene	0.38 U	ug/L	1.0	0.38	1	12/07/2021 01:17	12/07/2021 06:24	T
Chloroethane	0.42 U	ug/L	1.0	0.42	1	12/07/2021 01:17	12/07/2021 06:24	T
Chloroform	0.37 U	ug/L	1.0	0.37	1	12/07/2021 01:17	12/07/2021 06:24	T
Chloromethane	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
Dibromochloromethane	0.36 U	ug/L	1.0	0.36	1	12/07/2021 01:17	12/07/2021 06:24	T
Dichlorodifluoromethane	0.53 U	ug/L	1.0	0.53	1	12/07/2021 01:17	12/07/2021 06:24	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

Analytical Results

Lab ID: T2122789003 **Date Collected:** 12/02/2021 00:00 **Matrix:** Water
Sample ID: Travel Blank **Date Received:** 12/02/2021 11:23

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Ethylbenzene	0.56 U	ug/L	1.0	0.56	1	12/07/2021 01:17	12/07/2021 06:24	T
Isopropylbenzene	0.42 U	ug/L	1.0	0.42	1	12/07/2021 01:17	12/07/2021 06:24	T
Methyl tert-butyl Ether (MTBE)	0.71 U	ug/L	1.0	0.71	1	12/07/2021 01:17	12/07/2021 06:24	T
Methylene Chloride	0.56 U	ug/L	1.0	0.56	1	12/07/2021 01:17	12/07/2021 06:24	T
Tetrachloroethylene (PCE)	0.45 U	ug/L	1.0	0.45	1	12/07/2021 01:17	12/07/2021 06:24	T
Toluene	0.66 U	ug/L	1.0	0.66	1	12/07/2021 01:17	12/07/2021 06:24	T
Trichloroethene	0.32 U	ug/L	1.0	0.32	1	12/07/2021 01:17	12/07/2021 06:24	T
Trichlorofluoromethane	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:17	12/07/2021 06:24	T
Vinyl Chloride	0.44 U	ug/L	1.0	0.44	1	12/07/2021 01:17	12/07/2021 06:24	T
Xylene (Total)	1.3 U	ug/L	2.0	1.3	1	12/07/2021 01:17	12/07/2021 06:24	T
cis-1,2-Dichloroethylene	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
cis-1,3-Dichloropropene	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:17	12/07/2021 06:24	T
trans-1,2-Dichloroethylene	0.39 U	ug/L	1.0	0.39	1	12/07/2021 01:17	12/07/2021 06:24	T
trans-1,3-Dichloropropylene	0.26 U	ug/L	1.0	0.26	1	12/07/2021 01:17	12/07/2021 06:24	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	39	78	70 - 128	T
Toluene-d8 (S)	ug/L	50	50	101	77 - 119	T
Bromofluorobenzene (S)	ug/L	50	53	105	86 - 123	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: CVAt/1440
Preparation Method: EPA 245.1
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 245.1

Method Blank(4128963)

Parameter	Results	Units	PQL	MDL	Lab
Mercury	0.000028 U	mg/L		0.000028	T

Lab Control Sample (4128964)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Mercury	mg/L	0.0010	0	99	85 - 115	T

Matrix Spike (4128965); Matrix Spike Duplicate (4128966); Parent Lab Sample (T2122789001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/L	0.0010	0	96	70 - 130	0	96	0	20	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSj/2489
Preparation Method: EPA 515.3
Associated Lab IDs: T2122789001
Analysis Method: EPA 515.3

Method Blank(4134122)

Parameter	Results	Units	PQL	MDL	Lab
Dalapon	0.90 U	ug/L		0.90	J
2,4-D	0.095 U	ug/L		0.095	J
Pentachlorophenol	0.038 U	ug/L		0.038	J
Silvex (2,4,5-TP)	0.090 U	ug/L		0.090	J
Picloram	0.090 U	ug/L		0.090	J
Dinoseb	**0.24 I**	ug/L		0.18	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	23	92	70 - 130	

Lab Control Sample (4134123); Lab Control Sample Duplicate (4134124)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dalapon	ug/L	25	28	114	70 - 130	29	116	2	30	J
2,4-D	ug/L	12	13	106	70 - 130	14	112	6	30	J
Pentachlorophenol	ug/L	2.50	2.7	109	70 - 130	2.8	111	2	30	J
Silvex (2,4,5-TP)	ug/L	5	5.5	110	70 - 130	5.7	113	3	30	J
Picloram	ug/L	2.50	2.7	110	70 - 130	2.9	116	5	30	J
Dinoseb	ug/L	12	14	110	70 - 130	14	113	3	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4-Dichlorophenylacetic acid (S	ug/L	25	25	101	70 - 130	26	105	4		

Matrix Spike (4134126); Parent Lab Sample (J2116340001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dalapon	ug/L	25	28	113	70 - 130	J
2,4-D	ug/L	12	12	98	70 - 130	J
Pentachlorophenol	ug/L	2.50	2.8	114	70 - 130	J
Silvex (2,4,5-TP)	ug/L	5	5.8	115	70 - 130	J
Picloram	ug/L	2.50	2.4	95	70 - 130	J
Dinoseb	ug/L	12	13	102	70 - 130	J

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Workorder: SELF Plant Effluent (T2122789)

QC Batch: GCSj/2489
Preparation Method: EPA 515.3
Associated Lab IDs: T2122789001

Analysis Method: EPA 515.3

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	26	103	70 - 130	

QC Result Comments

Method Blank - 4134122 - Dinoseb

See Case Narration

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSj/2497
Preparation Method: EPA 515.3
Associated Lab IDs: T2122789002
Analysis Method: EPA 515.3

Method Blank(4134310)

Parameter	Results	Units	PQL	MDL	Lab
Dalapon	0.90 U	ug/L		0.90	J
2,4-D	0.095 U	ug/L		0.095	J
Pentachlorophenol	0.038 U	ug/L		0.038	J
Silvex (2,4,5-TP)	0.090 U	ug/L		0.090	J
Picloram	0.090 U	ug/L		0.090	J
Dinoseb	0.18 U	ug/L		0.18	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	0.29	**1**	70 - 130	

Lab Control Sample (4134311); Lab Control Sample Duplicate (4134312)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dalapon	ug/L	25	26	105	70 - 130	27	108	3	30	J
2,4-D	ug/L	12	12	93	70 - 130	12	99	6	30	J
Pentachlorophenol	ug/L	2.50	2.3	93	70 - 130	2.6	105	12	30	J
Silvex (2,4,5-TP)	ug/L	5	4.7	95	70 - 130	5	99	4	30	J
Picloram	ug/L	2.50	2.4	96	70 - 130	2.5	101	5	30	J
Dinoseb	ug/L	12	11	87	70 - 130	12	97	11	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4-Dichlorophenylacetic acid (S	ug/L	25	24	97	70 - 130	21	85	13		

Matrix Spike (4134314); Parent Lab Sample (J2116493001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dalapon	ug/L	25	32	129	70 - 130	J
2,4-D	ug/L	12	16	125	70 - 130	J
Pentachlorophenol	ug/L	2.50	3.4	**135**	70 - 130	J
Silvex (2,4,5-TP)	ug/L	5	6.5	129	70 - 130	J
Picloram	ug/L	2.50	3	122	70 - 130	J
Dinoseb	ug/L	12	16	128	70 - 130	J

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Workorder: SELF Plant Effluent (T2122789)

QC Batch: GCSj/2497
Preparation Method: EPA 515.3
Associated Lab IDs: T2122789002

Analysis Method: EPA 515.3

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4-Dichlorophenylacetic acid (S)	ug/L	25	29	116	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSj/2522
Preparation Method: EPA 508
Associated Lab IDs: T2122789001
Analysis Method: EPA 508

Matrix Spike (4129275); Parent Lab Sample (T2122952001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Hexachlorocyclopentadiene	ug/L	0.10	.1	99	65 - 135	J
Hexachlorobenzene	ug/L	0.10	.09	86	65 - 135	J
gamma-BHC (Lindane)	ug/L	0.10	.09	86	65 - 135	J
Heptachlor	ug/L	0.10	.1	95	65 - 135	J
Heptachlor Epoxide	ug/L	0.10	.1	102	65 - 135	J
Endrin	ug/L	0.10	.1	98	65 - 135	J
Methoxychlor	ug/L	0.10	.11	108	65 - 135	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	118	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSj/2522
Preparation Method: EPA 508
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 508

Method Blank(4127131)

Parameter	Results	Units	PQL	MDL	Lab
Hexachlorocyclopentadiene	0.019 U	ug/L		0.019	J
Hexachlorobenzene	0.0063 U	ug/L		0.0063	J
gamma-BHC (Lindane)	0.0071 U	ug/L		0.0071	J
Heptachlor	0.0060 U	ug/L		0.0060	J
Heptachlor Epoxide	0.0052 U	ug/L		0.0052	J
Endrin	0.0069 U	ug/L		0.0069	J
Methoxychlor	0.0068 U	ug/L		0.0068	J
PCBs	0.093 U	ug/L		0.093	J
Chlordane (technical)	0.053 U	ug/L		0.053	J
Toxaphene	0.12 U	ug/L		0.12	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	104	70 - 130	

Lab Control Sample (4127132); Lab Control Sample Duplicate (4127133)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Hexachlorocyclopentadiene	ug/L	0.10	.07	71	70 - 130	.08	84	17	20	J
Hexachlorobenzene	ug/L	0.10	.08	84	70 - 130	.08	80	5	20	J
gamma-BHC (Lindane)	ug/L	0.10	.08	75	70 - 130	.07	72	4	20	J
Heptachlor	ug/L	0.10	.09	86	70 - 130	.08	81	6	20	J
Heptachlor Epoxide	ug/L	0.10	.09	90	70 - 130	.09	90	0	20	J
Endrin	ug/L	0.10	.09	88	70 - 130	.08	84	5	20	J
Methoxychlor	ug/L	0.10	.09	92	70 - 130	.09	88	4	20	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	109	70 - 130	0	103	6		

Matrix Spike (4129240); Parent Lab Sample (T2122789002)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Hexachlorocyclopentadiene	ug/L	0.10	.09	85	65 - 135	J
Hexachlorobenzene	ug/L	0.10	.09	92	65 - 135	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: GCSj/2522
Preparation Method: EPA 508
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 508

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
gamma-BHC (Lindane)	ug/L	0.10	.09	91	65 - 135	J
Heptachlor	ug/L	0.10	.1	104	65 - 135	J
Heptachlor Epoxide	ug/L	0.10	.1	100	65 - 135	J
Endrin	ug/L	0.10	.08	81	65 - 135	J
Methoxychlor	ug/L	0.10	.11	112	65 - 135	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.000510	0	118	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSm/1756
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 8081

Method Blank(4127169)

Parameter	Results	Units	PQL	MDL	Lab
alpha-BHC	0.010 U	ug/L		0.010	M
beta-BHC	0.0096 U	ug/L		0.0096	M
delta-BHC	0.0084 U	ug/L		0.0084	M
Aldrin	0.0046 U	ug/L		0.0046	M
Endosulfan I	0.0038 U	ug/L		0.0038	M
4,4`-DDE	0.0081 U	ug/L		0.0081	M
Dieldrin	0.0066 U	ug/L		0.0066	M
4,4`-DDD	0.012 U	ug/L		0.012	M
Endosulfan II	0.0079 U	ug/L		0.0079	M
Endrin Aldehyde	0.0048 U	ug/L		0.0048	M
4,4`-DDT	0.0095 U	ug/L		0.0095	M
Endosulfan Sulfate	0.0075 U	ug/L		0.0075	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	75	48 - 137	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	80	44 - 124	

Lab Control Sample (4127170); Lab Control Sample Duplicate (4127171)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
alpha-BHC	ug/L	0.10	.1	98	54 - 138	.08	78	23	30	M
beta-BHC	ug/L	0.10	.09	90	56 - 136	.12	118	27	30	M
delta-BHC	ug/L	0.10	.1	95	52 - 142	.08	79	18	30	M
Aldrin	ug/L	0.10	.12	118	45 - 134	.12	115	3	30	M
Endosulfan I	ug/L	0.10	.11	112	62 - 126	.11	113	1	30	M
4,4`-DDE	ug/L	0.10	.11	114	57 - 135	.11	110	4	30	M
Dieldrin	ug/L	0.10	.11	108	60 - 136	.11	105	3	30	M
4,4`-DDD	ug/L	0.10	.11	109	56 - 143	.1	104	5	30	M
Endosulfan II	ug/L	0.10	.1	95	52 - 135	.1	99	4	30	M
Endrin Aldehyde	ug/L	0.10	.09	88	51 - 132	.09	85	3	30	M
4,4`-DDT	ug/L	0.10	.07	71	51 - 143	.1	98	**32**	30	M
Endosulfan Sulfate	ug/L	0.10	.09	87	62 - 133	.1	103	17	30	M

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: GCSm/1756
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 8081

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	73	48 - 137	0	88	19		
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	74	44 - 124	0	54	31		

Matrix Spike (4127172); Parent Lab Sample (T2122789001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
alpha-BHC	ug/L	0.10	.05	**45**	54 - 138	M
beta-BHC	ug/L	0.10	.04	**41**	56 - 136	M
delta-BHC	ug/L	0.10	.07	66	52 - 142	M
Aldrin	ug/L	0.10	.13	126	45 - 134	M
Endosulfan I	ug/L	0.10	.2	**195**	62 - 126	M
4,4`-DDE	ug/L	0.10	.09	92	57 - 135	M
Dieldrin	ug/L	0.10	.11	107	60 - 136	M
4,4`-DDD	ug/L	0.10	.09	87	56 - 143	M
Endosulfan II	ug/L	0.10	.06	55	52 - 135	M
Endrin Aldehyde	ug/L	0.10	.04	**42**	51 - 132	M
4,4`-DDT	ug/L	0.10	.05	53	51 - 143	M
Endosulfan Sulfate	ug/L	0.10	.19	**181**	62 - 133	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.000510	0	**13**	48 - 137	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	45	44 - 124	

QC Result Comments

Lab Control Sample Duplicate - 4127171 - 4,4`-DDT

*|MS/MSD recovery and/or RPD is out of criteria

Matrix Spike - 4127172 - Endosulfan Sulfate

J4|Estimated Result

Matrix Spike - 4127172 - Endrin Aldehyde

J4|Estimated Result

Matrix Spike - 4127172 - alpha-BHC

J4|Estimated Result

Matrix Spike - 4127172 - beta-BHC

J4|Estimated Result

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSm/1757
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SW-846 8082A

Method Blank(4127218)

Parameter	Results	Units	PQL	MDL	Lab
Aroclor 1016 (PCB-1016)	0.15 U	ug/L		0.15	M
Aroclor 1221 (PCB-1221)	0.13 U	ug/L		0.13	M
Aroclor 1232 (PCB-1232)	0.19 U	ug/L		0.19	M
Aroclor 1242 (PCB-1242)	0.17 U	ug/L		0.17	M
Aroclor 1248 (PCB-1248)	0.16 U	ug/L		0.16	M
Aroclor 1254 (PCB-1254)	0.040 U	ug/L		0.040	M
Aroclor 1260 (PCB-1260)	0.15 U	ug/L		0.15	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	75	44 - 136	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	80	61 - 119	

Lab Control Sample (4127219); Lab Control Sample Duplicate (4127220)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aroclor 1016 (PCB-1016)	ug/L	1	1	103	46 - 129	.89	89	15	30	M
Aroclor 1260 (PCB-1260)	ug/L	1	.72	72	45 - 134	.85	85	17	30	M

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	71	44 - 136	0	61	15		
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	**49**	61 - 119	0	63	25		

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Workorder: SELF Plant Effluent (T2122789)

QC Results

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: GCSt/1879
Preparation Method: EPA 552.2
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 552.2

Method Blank(4121779)

Parameter	Results	Units	PQL	MDL	Lab
Chloroacetic Acid	0.98 U	ug/L		0.98	T
Bromoacetic Acid	0.41 U	ug/L		0.41	T
Dichloroacetic Acid	0.42 U	ug/L		0.42	T
Trichloroacetic Acid	0.94 U	ug/L		0.94	T
Dibromoacetic Acid	0.74 U	ug/L		0.74	T
Total Haloacetic Acids (HAA5)	0.98 U	ug/L		0.98	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,3-Dibromopropionic Acid (S)	ug/L	20	18	92	70 - 130	

Lab Control Sample (4121780); Lab Control Sample Duplicate (4121781)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloroacetic Acid	ug/L	20	20.94	105	70 - 130	20.7	103	2	30	T
Bromoacetic Acid	ug/L	20	20.42	102	70 - 130	20.02	100	2	30	T
Dichloroacetic Acid	ug/L	20	20.51	103	70 - 130	20.31	102	1	30	T
Trichloroacetic Acid	ug/L	20	19.03	95	70 - 130	18.46	92	3	30	T
Dibromoacetic Acid	ug/L	20	18.92	95	70 - 130	18.6	93	2	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,3-Dibromopropionic Acid (S)	ug/L	20	19	96	70 - 130	18	92	4	30	

Matrix Spike (4121782); Parent Lab Sample (A2110225001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chloroacetic Acid	ug/L	20	23.57	107	70 - 130	T
Bromoacetic Acid	ug/L	20	34.88	**162**	70 - 130	T
Dichloroacetic Acid	ug/L	20	36.89	**48**	70 - 130	T
Trichloroacetic Acid	ug/L	20	47.31	130	70 - 130	T
Dibromoacetic Acid	ug/L	20	21.84	99	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,3-Dibromopropionic Acid (S)	ug/L	20	24	120	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: GCSt/1892
Preparation Method: EPA 504.1
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 504.1

Method Blank(4129103)

Parameter	Results	Units	PQL	MDL	Lab
Ethylene Dibromide (EDB)	0.0076 U	ug/L		0.0076	T
1,2-Dibromo-3-Chloropropane	0.0049 U	ug/L		0.0049	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Tetrachloro-m-xylene (S)	ug/L	1	1.20	119	64 - 150	

Lab Control Sample (4129104); Lab Control Sample Duplicate (4129105)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Ethylene Dibromide (EDB)	ug/L	0.25	.24	97	70 - 130	.25	102	5	30	T
1,2-Dibromo-3-Chloropropa	ug/L	0.25	.24	96	70 - 130	.25	100	4	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Tetrachloro-m-xylene (S)	ug/L	1	1.10	112	64 - 150	1.10	107	5		

Matrix Spike (4129107); Parent Lab Sample (G2110387001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Ethylene Dibromide (EDB)	ug/L	0.25	.27	**-6800**	70 - 130	T
1,2-Dibromo-3-Chloropropane	ug/L	0.25	.27	108	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Tetrachloro-m-xylene (S)	ug/L	1	0.79	79	64 - 150	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: HPLj/1332
Preparation Method: EPA 549.2
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 549.2

Method Blank(4127055)

Parameter	Results	Units	PQL	MDL	Lab
Diquat	0.37 U	ug/L		0.37	J

Lab Control Sample (4127056); Lab Control Sample Duplicate (4127057)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Diquat	ug/L	20	18	89	70 - 130	22	109	20	30	J

Matrix Spike (4127059); Parent Lab Sample (J2116493001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Diquat	ug/L	20	13	**67**	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: HPLj/1335
Preparation Method: EPA 547
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 547

Method Blank(4133809)

Parameter	Results	Units	PQL	MDL	Lab
Glyphosate	5.9 U	ug/L		5.9	J

Lab Control Sample (4133810); Lab Control Sample Duplicate (4133811)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Glyphosate	ug/L	200	200	102	70 - 130	200	101	1	30	J

Matrix Spike (4133813); Parent Lab Sample (J2116419001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Glyphosate	ug/L	200	200	100	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: HPLj/1341
Preparation Method: EPA 531.1
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 531.1

Method Blank(4140558)

Parameter	Results	Units	PQL	MDL	Lab
Oxamyl	1.8 U	ug/L		1.8	J
Carbofuran	0.51 U	ug/L		0.51	J

Lab Control Sample (4140559); Lab Control Sample Duplicate (4140560)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Oxamyl	ug/L	20	18	90	80 - 120	22	111	**21**	20	J
Carbofuran	ug/L	20	18	92	80 - 120	22	111	19	20	J

Matrix Spike (4140562); Parent Lab Sample (J2116492001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Oxamyl	ug/L	20	23	116	80 - 120	J
Carbofuran	ug/L	20	22	109	80 - 120	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: ICMj/1646
Preparation Method: EPA 200.8
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 200.8

Method Blank(4128640)

Parameter	Results	Units	PQL	MDL	Lab
Manganese	0.0010 U	mg/L		0.0010	J
Copper	0.0010 U	mg/L		0.0010	J
Arsenic	0.00025 U	mg/L		0.00025	J
Selenium	0.0012 U	mg/L		0.0012	J
Silver	0.00050 U	mg/L		0.00050	J
Cadmium	0.00025 U	mg/L		0.00025	J
Antimony	0.0010 U	mg/L		0.0010	J
Thallium	0.00025 U	mg/L		0.00025	J
Lead	0.00050 U	mg/L		0.00050	J
Uranium	0.20 U	ug/L		0.20	J

Lab Control Sample (4128641)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Manganese	mg/L	0.02	.02	97	85 - 115	J
Copper	mg/L	0.02	.02	106	85 - 115	J
Arsenic	mg/L	0.02	.02	96	85 - 115	J
Selenium	mg/L	0.02	.02	105	85 - 115	J
Silver	mg/L	0.02	.02	95	85 - 115	J
Cadmium	mg/L	0.02	.02	103	85 - 115	J
Antimony	mg/L	0.02	.02	113	85 - 115	J
Thallium	mg/L	0.02	.02	102	85 - 115	J
Lead	mg/L	0.02	.02	104	85 - 115	J
Uranium	ug/L	20	22	109	85 - 115	J

Matrix Spike (4128642); Matrix Spike Duplicate (4128643); Parent Lab Sample (J2116345003)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Manganese	mg/L	0.02	.04	**141**	70 - 130	.04	**140**			J
Copper	mg/L	0.02	.02	103	70 - 130	.02	102	1	20	J
Arsenic	mg/L	0.02	.02	74	70 - 130	.02	71	4	20	J
Selenium	mg/L	0.02	.01	**65**	70 - 130	.01	**64**	2	20	J
Silver	mg/L	0.02	.01	71	70 - 130	.01	**69**	3	20	J
Cadmium	mg/L	0.02	.02	75	70 - 130	.02	73	3	20	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: ICMj/1646
Preparation Method: EPA 200.8
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: EPA 200.8

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Antimony	mg/L	0.02	.02	99	70 - 130	.02	96	3	20	J
Thallium	mg/L	0.02	.02	119	70 - 130	.02	117	2	20	J
Lead	mg/L	0.02	.02	121	70 - 130	.02	119	2	20	J
Uranium	ug/L	20	31	**146**	70 - 130	30	**142**	3	20	J

Matrix Spike (4128644); Matrix Spike Duplicate (4128645); Parent Lab Sample (J2116473001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Manganese	mg/L	0.02	.04	89	70 - 130	.04	93			J
Copper	mg/L	0.02	.02	90	70 - 130	.02	92	2	20	J
Arsenic	mg/L	0.02	.02	91	70 - 130	.02	91	0	20	J
Selenium	mg/L	0.02	.02	88	70 - 130	.02	90	2	20	J
Silver	mg/L	0.02	.02	81	70 - 130	.02	83	2	20	J
Cadmium	mg/L	0.02	.02	88	70 - 130	.02	89	1	20	J
Antimony	mg/L	0.02	.02	111	70 - 130	.02	111	0	20	J
Thallium	mg/L	0.02	.02	96	70 - 130	.02	99	3	20	J
Lead	mg/L	0.02	.02	98	70 - 130	.02	100	2	20	J
Uranium	ug/L	20	20	102	70 - 130	21	103	1	20	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: ICPt/2162
Preparation Method: EPA 200.7
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 200.7

Method Blank(4133987)

Parameter	Results	Units	PQL	MDL	Lab
Aluminum	0.021 U	mg/L		0.021	T
Barium	0.0030 U	mg/L		0.0030	T
Beryllium	0.0020 U	mg/L		0.0020	T
Chromium	0.0050 U	mg/L		0.0050	T
Iron	0.0067 U	mg/L		0.0067	T
Sodium	0.80 U	mg/L		0.80	T
Nickel	0.0080 U	mg/L		0.0080	T
Zinc	0.050 U	mg/L		0.050	T

Method Blank(4133987)

Parameter	Results	Units	PQL	MDL	Lab
Aluminum	0.021 U	mg/L		0.021	T
Barium	0.0030 U	mg/L		0.0030	T
Beryllium	0.0020 U	mg/L		0.0020	T
Chromium	0.0050 U	mg/L		0.0050	T
Iron	0.0067 U	mg/L		0.0067	T
Sodium	0.80 U	mg/L		0.80	T
Nickel	0.0080 U	mg/L		0.0080	T
Zinc	0.050 U	mg/L		0.050	T

Lab Control Sample (4133988)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Aluminum	mg/L	1	1	103	85 - 115	T
Barium	mg/L	1	1.1	107	85 - 115	T
Beryllium	mg/L	1	1.1	106	85 - 115	T
Chromium	mg/L	1	1.1	109	85 - 115	T
Iron	mg/L	1	1.1	106	85 - 115	T
Sodium	mg/L	10	10	101	85 - 115	T
Nickel	mg/L	1	1.1	105	85 - 115	T
Zinc	mg/L	1	1	105	85 - 115	T

Matrix Spike (4133989); Matrix Spike Duplicate (4133990); Parent Lab Sample (T2122789001)

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: ICPt/2162
Preparation Method: EPA 200.7
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 200.7

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	1.1	106	70 - 130	1.1	109	3	20	T
Barium	mg/L	1	1.1	102	70 - 130	1.1	103	1	20	T
Beryllium	mg/L	1	1.1	113	70 - 130	1.1	114	1	20	T
Chromium	mg/L	1	1	101	70 - 130	1	102	1	20	T
Iron	mg/L	1	2.3	100	70 - 130	2.4	103	3	20	T
Sodium	mg/L	10	2700	**1830**	70 - 130	2600	**1020**	**57**	20	T
Nickel	mg/L	1	.96	93	70 - 130	.98	95	2	20	T
Zinc	mg/L	1	1	94	70 - 130	1	95	1	20	T

Matrix Spike (4133989); Matrix Spike Duplicate (4133990); Parent Lab Sample (T2122789001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	1.1	106	70 - 130	1.1	109	3	20	T
Barium	mg/L	1	1.1	102	70 - 130	1.1	103	1	20	T
Beryllium	mg/L	1	1.1	113	70 - 130	1.1	114	1	20	T
Chromium	mg/L	1	1	101	70 - 130	1	102	1	20	T
Iron	mg/L	1	2.3	100	70 - 130	2.4	103	3	20	T
Sodium	mg/L	10	2700	**1830**	70 - 130	2600	**1020**	**57**	20	T
Nickel	mg/L	1	.96	93	70 - 130	.98	95	2	20	T
Zinc	mg/L	1	1	94	70 - 130	1	95	1	20	T

Matrix Spike (4133991); Matrix Spike Duplicate (4133992); Parent Lab Sample (F2105324005)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aluminum	mg/L	1	2	103	70 - 130	2	108	5	20	T
Barium	mg/L	1	1	103	70 - 130	1	103	0	20	T
Beryllium	mg/L	1	1	103	70 - 130	1	103	0	20	T
Chromium	mg/L	1	1	103	70 - 130	1	103	0	20	T
Iron	mg/L	1	6.3	80	70 - 130	6.3	80	0	20	T
Sodium	mg/L	10	110	**53**	70 - 130	110	**52**	2	20	T
Nickel	mg/L	1	.99	98	70 - 130	.99	98	0	20	T
Zinc	mg/L	1	.98	98	70 - 130	.97	97	1	20	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSSj/1732
Preparation Method: EPA 548.1
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 548.1

Method Blank(4127157)

Parameter	Results	Units	PQL	MDL	Lab
Endothall	6.0 U	ug/L		6.0	J

Lab Control Sample (4127158); Lab Control Sample Duplicate (4127159)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Endothall	ug/L	50	57	114	63 - 131	33	67	**52**	30	J

Matrix Spike (4127161); Parent Lab Sample (J2116492001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Endothall	ug/L	50	23	**46**	63 - 131	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSSj/1746
Preparation Method: EPA 525.2
Associated Lab IDs: T2122789002
Analysis Method: EPA 525.2

Method Blank(4134593)

Parameter	Results	Units	PQL	MDL	Lab
Simazine	0.060 U	ug/L		0.060	J
Atrazine	0.090 U	ug/L		0.090	J
Alachlor	0.15 U	ug/L		0.15	J
Di(2-ethylhexyl) adipate	0.50 U	ug/L		0.50	J
bis(2-Ethylhexyl) phthalate	0.50 U	ug/L		0.50	J
Benzo[a]pyrene	0.015 U	ug/L		0.015	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	101	70 - 130	

Lab Control Sample (4134594); Lab Control Sample Duplicate (4134595)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Simazine	ug/L	2	1.6	78	70 - 130	1.6	81	4	30	J
Atrazine	ug/L	2	1.7	83	70 - 130	1.7	86	4	30	J
Alachlor	ug/L	2	1.5	75	70 - 130	1.5	75	0	30	J
Di(2-ethylhexyl) adipate	ug/L	2	1.4	72	70 - 130	1.5	73	1	30	J
bis(2-Ethylhexyl) phthalate	ug/L	2	1.5	77	70 - 130	1.6	78	1	30	J
Benzo[a]pyrene	ug/L	2	1.6	80	70 - 130	1.6	82	2	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	100	70 - 130	0.01	101	1		

Matrix Spike (4135052); Parent Lab Sample (J2117007003)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Simazine	ug/L	2	2.2	111	70 - 130	J
Atrazine	ug/L	2	2.3	116	70 - 130	J
Alachlor	ug/L	2	2.2	109	70 - 130	J
Di(2-ethylhexyl) adipate	ug/L	2	2.5	123	70 - 130	J
bis(2-Ethylhexyl) phthalate	ug/L	2	2.6	129	70 - 130	J
Benzo[a]pyrene	ug/L	2	2.2	112	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSj/1746
Preparation Method: EPA 525.2
Associated Lab IDs: T2122789002

Analysis Method: EPA 525.2

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	102	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSSj/1751
Preparation Method: EPA 525.2
Associated Lab IDs: T2122789001
Analysis Method: EPA 525.2

Method Blank(4139585)

Parameter	Results	Units	PQL	MDL	Lab
Simazine	0.060 U	ug/L		0.060	J
Atrazine	0.090 U	ug/L		0.090	J
Alachlor	0.15 U	ug/L		0.15	J
Di(2-ethylhexyl) adipate	0.50 U	ug/L		0.50	J
bis(2-Ethylhexyl) phthalate	0.50 U	ug/L		0.50	J
Benzo[a]pyrene	0.015 U	ug/L		0.015	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	101	70 - 130	

Lab Control Sample (4139586); Lab Control Sample Duplicate (4139587)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Simazine	ug/L	2	2.2	110	70 - 130	2.4	118	7	30	J
Atrazine	ug/L	2	2.2	111	70 - 130	2.4	122	9	30	J
Alachlor	ug/L	2	2.3	114	70 - 130	2.4	118	3	30	J
Di(2-ethylhexyl) adipate	ug/L	2	2.2	109	70 - 130	2.2	111	2	30	J
bis(2-Ethylhexyl) phthalate	ug/L	2	2.2	111	70 - 130	2.5	126	13	30	J
Benzo[a]pyrene	ug/L	2	2	99	70 - 130	2.1	106	7	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	103	70 - 130	0.01	101	2		

Matrix Spike (4141015); Parent Lab Sample (J2117007001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Simazine	ug/L	2	1.5	75	70 - 130	J
Atrazine	ug/L	2	1.5	76	70 - 130	J
Alachlor	ug/L	2	1.4	72	70 - 130	J
Di(2-ethylhexyl) adipate	ug/L	2	1.5	73	70 - 130	J
bis(2-Ethylhexyl) phthalate	ug/L	2	1.5	73	70 - 130	J
Benzo[a]pyrene	ug/L	2	1.5	76	70 - 130	J

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSj/1751
Preparation Method: EPA 525.2
Associated Lab IDs: T2122789001

Analysis Method: EPA 525.2

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
p-Terphenyl-d14 (S)	mg/L	0.0050	0.01	102	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SW-846 8270C

Method Blank(4120502)

Parameter	Results	Units	PQL	MDL	Lab
Phenol	1.0 U	ug/L		1.0	T
2-Chlorophenol	1.6 U	ug/L		1.6	T
2-Nitrophenol	1.2 U	ug/L		1.2	T
2,4-Dimethylphenol	0.62 U	ug/L		0.62	T
2,4-Dichlorophenol	0.32 U	ug/L		0.32	T
4-Chloro-3-methylphenol	0.84 U	ug/L		0.84	T
2,4,6-Trichlorophenol	1.3 U	ug/L		1.3	T
2,4-Dinitrophenol	2.3 U	ug/L		2.3	T
4-Nitrophenol	0.83 U	ug/L		0.83	T
2-Methyl-4,6-dinitrophenol	2.2 U	ug/L		2.2	T
N-Nitrosodimethylamine	1.1 U	ug/L		1.1	T
bis(2-Chloroethyl)Ether	0.46 U	ug/L		0.46	T
bis(2-Chloroisopropyl) Ether	0.38 U	ug/L		0.38	T
N-Nitrosodi-n-propylamine	1.5 U	ug/L		1.5	T
Hexachloroethane	1.8 U	ug/L		1.8	T
Nitrobenzene	1.1 U	ug/L		1.1	T
Isophorone	0.70 U	ug/L		0.70	T
bis(2-Chloroethoxy)methane	1.0 U	ug/L		1.0	T
Naphthalene	0.014 U	ug/L		0.014	T
Hexachlorobutadiene	0.34 U	ug/L		0.34	T
2-Chloronaphthalene	4.0 U	ug/L		4.0	T
Dimethyl phthalate	1.1 U	ug/L		1.1	T
2,6-Dinitrotoluene (2,6-DNT)	2.2 U	ug/L		2.2	T
Acenaphthylene	0.0080 U	ug/L		0.0080	T
Acenaphthene	0.0070 U	ug/L		0.0070	T
2,4-Dinitrotoluene (2,4-DNT)	2.3 U	ug/L		2.3	T
Diethyl phthalate	1.3 U	ug/L		1.3	T
Fluorene	0.0096 U	ug/L		0.0096	T
4-Chlorophenyl Phenyl Ether	0.79 U	ug/L		0.79	T
1,2-Diphenylhydrazine	1.6 U	ug/L		1.6	T
4-Bromophenyl Phenyl Ether	1.1 U	ug/L		1.1	T

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Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: SW-846 8270C

Parameter	Results	Units	PQL	MDL	Lab
Phenanthrene	0.0091 U	ug/L		0.0091	T
Anthracene	0.013 U	ug/L		0.013	T
Di-n-Butyl Phthalate	1.9 U	ug/L		1.9	T
Fluoranthene	0.0094 U	ug/L		0.0094	T
Benzidine	2.1 U	ug/L		2.1	T
Pyrene	0.0093 U	ug/L		0.0093	T
Butyl benzyl phthalate	1.1 U	ug/L		1.1	T
Benzo[a]anthracene	0.011 U	ug/L		0.011	T
3,3`-Dichlorobenzidine	1.1 U	ug/L		1.1	T
Chrysene	0.0078 U	ug/L		0.0078	T
bis(2-Ethylhexyl) phthalate	2.3 U	ug/L		2.3	T
Di-n-octyl Phthalate	2.0 U	ug/L		2.0	T
Benzo[b]fluoranthene	0.011 U	ug/L		0.011	T
Benzo[k]fluoranthene	0.0068 U	ug/L		0.0068	T
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L		0.011	T
Dibenzo[a,h]anthracene	0.013 U	ug/L		0.013	T
Benzo[g,h,i]perylene	0.011 U	ug/L		0.011	T
N-Nitrosodiphenylamine	0.95 U	ug/L		0.95	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.03	68	48 - 147	
2-Fluorobiphenyl (S)	mg/L	0.05	0.04	80	42 - 138	
2-Fluorophenol (S)	mg/L	0.05	0.02	33	31 - 134	
Nitrobenzene-d5 (S)	mg/L	0.05	0.04	86	38 - 139	
Phenol-d6 (S)	mg/L	0.05	0.01	**20**	24 - 120	
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	94	61 - 154	

Lab Control Sample (4120503); Lab Control Sample Duplicate (4120504)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodimethylamine	ug/L	40	18	46		19	48	4		T
Phenol	ug/L	40	13	33	19 - 106	14	34	3	20	T
bis(2-Chloroethyl)Ether	ug/L	40	32	81		33	83	2		T
2-Chlorophenol	ug/L	40	32	79		33	83	5		T
bis(2-Chloroisopropyl) Ethe	ug/L	40	29	72		30	75	4		T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodi-n-propylamine	ug/L	40	30	76		33	82	8		T
Hexachloroethane	ug/L	40	26	64	21 - 115	27	68	6	20	T
Nitrobenzene	ug/L	40	36	90	45 - 121	37	93	3	20	T
Isophorone	ug/L	40	35	87		36	91	4		T
2-Nitrophenol	ug/L	40	40	100		42	104	4		T
2,4-Dimethylphenol	ug/L	40	34	86		35	88	2		T
bis(2-Chloroethoxy)methan	ug/L	40	32	81		33	84	4		T
2,4-Dichlorophenol	ug/L	40	34	85	47 - 121	35	86	1	20	T
Naphthalene	ug/L	40	28	70		29	74	6		T
Hexachlorobutadiene	ug/L	40	27	67	22 - 124	29	72	7	20	T
4-Chloro-3-methylphenol	ug/L	40	36	89	52 - 119	36	90	1	20	T
2,4,6-Trichlorophenol	ug/L	40	34	85	50 - 125	35	87	2	20	T
2-Chloronaphthalene	ug/L	40	38	95		29	71	29		T
Dimethyl phthalate	ug/L	40	35	87		35	87	0		T
2,6-Dinitrotoluene (2,6-DNT	ug/L	40	42	104		42	104	0		T
Acenaphthylene	ug/L	40	34	86		35	87	1		T
Acenaphthene	ug/L	40	31	79	47 - 122	31	78	1	20	T
2,4-Dinitrophenol	ug/L	40	42	104		40	99	5		T
2,4-Dinitrotoluene (2,4-DNT	ug/L	40	46	114	57 - 128	47	117	3	20	T
4-Nitrophenol	ug/L	40	23	58		24	60	3		T
Diethyl phthalate	ug/L	40	37	92		38	96	4		T
Fluorene	ug/L	40	33	82	52 - 124	34	84	2	20	T
4-Chlorophenyl Phenyl Eth	ug/L	40	33	84		34	86	2		T
2-Methyl-4,6-dinitrophenol	ug/L	40	48	120		47	118	2		T
N-Nitrosodiphenylamine	ug/L	40	32	80		31	78	3		T
1,2-Diphenylhydrazine	ug/L	40	40	99		39	99	0		T
4-Bromophenyl Phenyl Eth	ug/L	40	38	94		37	91	3		T
Phenanthrene	ug/L	40	34	85		33	83	2		T
Anthracene	ug/L	40	34	85		34	84	1		T
Di-n-Butyl Phthalate	ug/L	40	41	102		40	99	3		T
Fluoranthene	ug/L	40	35	88	57 - 128	35	88	0	20	T
Pyrene	ug/L	40	37	92		36	91	1		T
Butyl benzyl phthalate	ug/L	40	43	107		43	107	0		T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Benzo[a]anthracene	ug/L	40	38	95		37	93	2		T
Chrysene	ug/L	40	37	91		36	90	1		T
bis(2-Ethylhexyl) phthalate	ug/L	40	43	107	55 - 135	42	106	1	20	T
Di-n-octyl Phthalate	ug/L	40	42	104		41	102	2		T
Benzo[b]fluoranthene	ug/L	40	38	96		39	99	3		T
Benzo[k]fluoranthene	ug/L	40	33	82		32	80	2		T
Indeno(1,2,3-cd)pyrene	ug/L	40	38	96		39	99	3		T
Dibenzo[a,h]anthracene	ug/L	40	37	93		38	94	1		T
Benzo[g,h,i]perylene	ug/L	40	36	90		36	90	0		T
Benzidine	ug/L	40	20	51		19	47	8		T
3,3`-Dichlorobenzidine	ug/L	40	31	78		30	75	4		T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.05	95	48 - 147	0.05	93	2		
2-Fluorobiphenyl (S)	mg/L	0.05	0.04	86	42 - 138	0.04	86	0		
2-Fluorophenol (S)	mg/L	0.05	0.02	49	31 - 134	0.03	51	4		
Nitrobenzene-d5 (S)	mg/L	0.05	0.05	92	38 - 139	0.05	94	2		
Phenol-d6 (S)	mg/L	0.05	0.02	33	24 - 120	0.02	33	0		
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	101	61 - 154	0.05	93	8		

Matrix Spike (4120505); Parent Lab Sample (T2122789001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
N-Nitrosodimethylamine	ug/L	41	17	41		T
Phenol	ug/L	41	17	38	19 - 106	T
bis(2-Chloroethyl)Ether	ug/L	41	27	65		T
2-Chlorophenol	ug/L	41	26	64		T
bis(2-Chloroisopropyl) Ether	ug/L	41	23	57		T
N-Nitrosodi-n-propylamine	ug/L	41	26	63		T
Hexachloroethane	ug/L	41	16	39	21 - 115	T
Nitrobenzene	ug/L	41	31	76	45 - 121	T
Isophorone	ug/L	41	30	73		T
2-Nitrophenol	ug/L	41	37	89		T
2,4-Dimethylphenol	ug/L	41	30	72		T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
bis(2-Chloroethoxy)methane	ug/L	41	27	66		T
2,4-Dichlorophenol	ug/L	41	29	69	47 - 121	T
Naphthalene	ug/L	41	23	55		T
Hexachlorobutadiene	ug/L	41	17	41	22 - 124	T
4-Chloro-3-methylphenol	ug/L	41	35	86	52 - 119	T
2,4,6-Trichlorophenol	ug/L	41	34	83	50 - 125	T
2-Chloronaphthalene	ug/L	41	23	55		T
Dimethyl phthalate	ug/L	41	33	81		T
2,6-Dinitrotoluene (2,6-DNT)	ug/L	41	41	91		T
Acenaphthylene	ug/L	41	29	70		T
Acenaphthene	ug/L	41	26	62	47 - 122	T
2,4-Dinitrophenol	ug/L	41	54	132		T
2,4-Dinitrotoluene (2,4-DNT)	ug/L	41	43	105	57 - 128	T
4-Nitrophenol	ug/L	41	29	71		T
Diethyl phthalate	ug/L	41	34	82		T
Fluorene	ug/L	41	29	69	52 - 124	T
4-Chlorophenyl Phenyl Ether	ug/L	41	30	72		T
2-Methyl-4,6-dinitrophenol	ug/L	41	52	126		T
N-Nitrosodiphenylamine	ug/L	41	29	70		T
1,2-Diphenylhydrazine	ug/L	41	34	82		T
4-Bromophenyl Phenyl Ether	ug/L	41	32	77		T
Phenanthrene	ug/L	41	30	73		T
Anthracene	ug/L	41	30	72		T
Di-n-Butyl Phthalate	ug/L	41	35	84		T
Fluoranthene	ug/L	41	31	75	57 - 128	T
Pyrene	ug/L	41	31	76		T
Butyl benzyl phthalate	ug/L	41	37	89		T
Benzo[a]anthracene	ug/L	41	33	80		T
Chrysene	ug/L	41	30	72		T
bis(2-Ethylhexyl) phthalate	ug/L	41	37	89	55 - 135	T
Di-n-octyl Phthalate	ug/L	41	36	87		T
Benzo[b]fluoranthene	ug/L	41	30	74		T
Benzo[k]fluoranthene	ug/L	41	31	76		T
Indeno(1,2,3-cd)pyrene	ug/L	41	32	78		T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSSt/1543
Preparation Method: SW-846 3510C
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dibenzo[a,h]anthracene	ug/L	41	32	77		T
Benzo[g,h,i]perylene	ug/L	41	31	75		T
Benzidine	ug/L	41	.09	0		T
3,3`-Dichlorobenzidine	ug/L	41	.25	1		T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	0.0520	0.05	92	48 - 147	
2-Fluorobiphenyl (S)	mg/L	0.0520	0.03	66	42 - 138	
2-Fluorophenol (S)	mg/L	0.0520	0.03	48	31 - 134	
Nitrobenzene-d5 (S)	mg/L	0.0520	0.04	74	38 - 139	
Phenol-d6 (S)	mg/L	0.0520	0.02	39	24 - 120	
p-Terphenyl-d14 (S)	mg/L	0.0520	0.03	63	61 - 154	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSVt/3143
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789001
Analysis Method: SW-846 8260B

Method Blank(4123584)

Parameter	Results	Units	PQL	MDL	Lab
Chloromethane	0.39 U	ug/L		0.39	T
Bromomethane	0.32 U	ug/L		0.32	T
Chloroethane	0.42 U	ug/L		0.42	T
Acrolein (Propenal)	1.8 U	ug/L		1.8	T
Acrylonitrile	0.38 U	ug/L		0.38	T
1,1-Dichloroethane	0.38 U	ug/L		0.38	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L		0.79	T
trans-1,3-Dichloropropylene	0.26 U	ug/L		0.26	T
1,1,2,2-Tetrachloroethane	0.20 U	ug/L		0.20	T
1,3-Dichlorobenzene	0.40 U	ug/L		0.40	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	51	102	70 - 128	
Bromofluorobenzene (S)	ug/L	50	49	98	86 - 123	
Toluene-d8 (S)	ug/L	50	38	**75**	77 - 119	

Lab Control Sample (4123585); Lab Control Sample Duplicate (4123586)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloromethane	ug/L	20	22	111		22	111	0		T
Bromomethane	ug/L	20	11	55		12	58	5		T
Chloroethane	ug/L	20	17	85		17	85	0		T
Acrolein (Propenal)	ug/L	100	88	88		92	92	4		T
Acrylonitrile	ug/L	20	23	113		23	114	1		T
1,1-Dichloroethane	ug/L	20	25	127		25	124	2		T
2-Chloroethyl Vinyl Ether	ug/L	20	29	147		30	151	3		T
trans-1,3-Dichloropropylene	ug/L	20	21	103		20	101	2		T
1,1,2,2-Tetrachloroethane	ug/L	20	16	80		19	93	15		T
1,3-Dichlorobenzene	ug/L	20	15	74	70 - 130	17	86	15	20	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3143
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789001

Analysis Method: SW-846 8260B

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	44	89	70 - 128	47	94	5		
Bromofluorobenzene (S)	ug/L	50	46	92	86 - 123	46	92	0		
Toluene-d8 (S)	ug/L	50	39	77	77 - 119	38	76	1		

Matrix Spike (4123587); Parent Lab Sample (F2105210003)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chloromethane	ug/L	20	19	94		T
Bromomethane	ug/L	20	11	53		T
Chloroethane	ug/L	20	14	71		T
Acrolein (Propenal)	ug/L	100	79	79		T
Acrylonitrile	ug/L	20	20	98		T
1,1-Dichloroethane	ug/L	20	21	106		T
2-Chloroethyl Vinyl Ether	ug/L	20	26	132		T
trans-1,3-Dichloropropylene	ug/L	20	18	90		T
1,1,2,2-Tetrachloroethane	ug/L	20	18	91		T
1,3-Dichlorobenzene	ug/L	20	17	86	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	41	82	70 - 128	
Bromofluorobenzene (S)	ug/L	50	46	92	86 - 123	
Toluene-d8 (S)	ug/L	50	38	**75**	77 - 119	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSVt/3146
Preparation Method: EPA 524.2
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 524.2

Method Blank(4124755)

Parameter	Results	Units	PQL	MDL	Lab
Vinyl Chloride	0.29 U	ug/L		0.29	T
1,1-Dichloroethylene	0.22 U	ug/L		0.22	T
Methylene Chloride	0.44 U	ug/L		0.44	T
trans-1,2-Dichloroethylene	0.21 U	ug/L		0.21	T
cis-1,2-Dichloroethylene	0.27 U	ug/L		0.27	T
1,2-Dichloroethane	0.24 U	ug/L		0.24	T
1,1,1-Trichloroethane	0.29 U	ug/L		0.29	T
Carbon Tetrachloride	0.25 U	ug/L		0.25	T
Benzene	0.26 U	ug/L		0.26	T
1,2-Dichloropropane	0.26 U	ug/L		0.26	T
Trichloroethene	0.14 U	ug/L		0.14	T
1,1,2-Trichloroethane	0.27 U	ug/L		0.27	T
Toluene	0.33 U	ug/L		0.33	T
Tetrachloroethylene (PCE)	0.42 U	ug/L		0.42	T
Chlorobenzene	0.36 U	ug/L		0.36	T
Ethylbenzene	0.31 U	ug/L		0.31	T
Styrene	0.25 U	ug/L		0.25	T
1,4-Dichlorobenzene	0.33 U	ug/L		0.33	T
1,2-Dichlorobenzene	0.39 U	ug/L		0.39	T
1,2,4-Trichlorobenzene	0.44 U	ug/L		0.44	T
Xylene (Total)	0.44 U	ug/L		0.44	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	53	105	70 - 130	
Bromofluorobenzene (S)	ug/L	50	53	106	70 - 130	
Toluene-d8 (S)	ug/L	50	43	85	70 - 130	

Matrix Spike (4124757); Parent Lab Sample (G2110345001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Vinyl Chloride	ug/L	20	24	120	70 - 130	T
1,1-Dichloroethylene	ug/L	20	21	105	70 - 130	T
Methylene Chloride	ug/L	20	23	113	70 - 130	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3146
Preparation Method: EPA 524.2
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: EPA 524.2

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
trans-1,2-Dichloroethylene	ug/L	20	22	111	70 - 130	T
cis-1,2-Dichloroethylene	ug/L	20	22	112	70 - 130	T
1,2-Dichloroethane	ug/L	20	21	106	70 - 130	T
1,1,1-Trichloroethane	ug/L	20	22	108	70 - 130	T
Carbon Tetrachloride	ug/L	20	21	103	70 - 130	T
Benzene	ug/L	20	22	109	70 - 130	T
1,2-Dichloropropane	ug/L	20	22	112	70 - 130	T
Trichloroethene	ug/L	20	22	109	70 - 130	T
1,1,2-Trichloroethane	ug/L	20	21	106	70 - 130	T
Toluene	ug/L	20	20	99	70 - 130	T
Tetrachloroethylene (PCE)	ug/L	20	19	95	70 - 130	T
Chlorobenzene	ug/L	20	20	98	70 - 130	T
Ethylbenzene	ug/L	20	20	99	70 - 130	T
Styrene	ug/L	20	20	101	70 - 130	T
1,4-Dichlorobenzene	ug/L	20	19	93	70 - 130	T
1,2-Dichlorobenzene	ug/L	20	18	92	70 - 130	T
1,2,4-Trichlorobenzene	ug/L	20	18	89	70 - 130	T
Xylene (Total)	ug/L	60	60	100	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	43	87	70 - 130	
Bromofluorobenzene (S)	ug/L	50	50	99	70 - 130	
Toluene-d8 (S)	ug/L	50	43	86	70 - 130	

Lab Control Sample (4124760); Lab Control Sample Duplicate (4124761)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Vinyl Chloride	ug/L	20	25	124	70 - 130	24	121	2	30	T
1,1-Dichloroethylene	ug/L	20	21	105	70 - 130	21	107	2	30	T
Methylene Chloride	ug/L	20	22	111	70 - 130	22	112	1	30	T
trans-1,2-Dichloroethylene	ug/L	20	22	111	70 - 130	22	111	0	30	T
cis-1,2-Dichloroethylene	ug/L	20	21	107	70 - 130	22	109	2	30	T
1,2-Dichloroethane	ug/L	20	21	107	70 - 130	21	107	0	30	T
1,1,1-Trichloroethane	ug/L	20	22	109	70 - 130	22	110	1	30	T
Carbon Tetrachloride	ug/L	20	21	104	70 - 130	21	106	2	30	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3146
Preparation Method: EPA 524.2
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: EPA 524.2

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Benzene	ug/L	20	22	109	70 - 130	22	108	1	30	T
1,2-Dichloropropane	ug/L	20	22	112	70 - 130	22	111	1	30	T
Trichloroethene	ug/L	20	22	111	70 - 130	22	112	1	30	T
1,1,2-Trichloroethane	ug/L	20	21	106	70 - 130	21	106	0	30	T
Toluene	ug/L	20	17	87	70 - 130	20	98	12	30	T
Tetrachloroethylene (PCE)	ug/L	20	17	85	70 - 130	19	93	9	30	T
Chlorobenzene	ug/L	20	17	87	70 - 130	19	97	11	30	T
Ethylbenzene	ug/L	20	17	87	70 - 130	19	97	11	30	T
Styrene	ug/L	20	18	88	70 - 130	20	99	12	30	T
1,4-Dichlorobenzene	ug/L	20	16	82	70 - 130	19	94	14	30	T
1,2-Dichlorobenzene	ug/L	20	15	77	70 - 130	18	91	17	30	T
1,2,4-Trichlorobenzene	ug/L	20	15	75	70 - 130	18	89	17	30	T
Xylene (Total)	ug/L	60	52	87	70 - 130	59	98	12	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	48	95	70 - 130	44	87	9		
Bromofluorobenzene (S)	ug/L	50	50	99	70 - 130	51	101	2		
Toluene-d8 (S)	ug/L	50	43	86	70 - 130	43	85	1		

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSVt/3147
Preparation Method: EPA 524.2
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 524.2

Method Blank(4124781)

Parameter	Results	Units	PQL	MDL	Lab
Chloroform	0.32 U	ug/L		0.32	T
Bromodichloromethane	0.42 U	ug/L		0.42	T
Dibromochloromethane	0.37 U	ug/L		0.37	T
Bromoform	0.45 U	ug/L		0.45	T
Total Trihalomethanes	0.45 U	ug/L		0.45	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	53	105	70 - 130	
Bromofluorobenzene (S)	ug/L	50	53	106	70 - 130	
Toluene-d8 (S)	ug/L	50	43	85	70 - 130	

Lab Control Sample (4124782); Lab Control Sample Duplicate (4124783)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chloroform	ug/L	20	20.26	101	80 - 105	20.59	103	2	15	T
Bromodichloromethane	ug/L	20	19.62	98	80 - 105	20.23	101	3	15	T
Dibromochloromethane	ug/L	20	17.09	85	80 - 105	19.34	97	13	15	T
Bromoform	ug/L	20	18.48	92	80 - 105	17.82	89	3	15	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	45	90	70 - 130	41	82	9		
Bromofluorobenzene (S)	ug/L	50	50	99	70 - 130	51	101	2		
Toluene-d8 (S)	ug/L	50	43	86	70 - 130	43	85	1		

Matrix Spike (4124784); Parent Lab Sample (T2122825001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chloroform	ug/L	20	24.29	92	75 - 125	T
Bromodichloromethane	ug/L	20	20.87	102	75 - 125	T
Dibromochloromethane	ug/L	20	19.33	97	75 - 125	T
Bromoform	ug/L	20	18.99	95	75 - 125	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3147
Preparation Method: EPA 524.2
Associated Lab IDs: T2122789001, T2122789002

Analysis Method: EPA 524.2

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	48	96	70 - 130	
Bromofluorobenzene (S)	ug/L	50	50	99	70 - 130	
Toluene-d8 (S)	ug/L	50	43	86	70 - 130	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: MSVt/3151
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789002, T2122789003
Analysis Method: SW-846 8260B

Method Blank(4125040)

Parameter	Results	Units	PQL	MDL	Lab
Dichlorodifluoromethane	0.53 U	ug/L		0.53	T
Chloromethane	0.39 U	ug/L		0.39	T
Vinyl Chloride	0.44 U	ug/L		0.44	T
Bromomethane	0.32 U	ug/L		0.32	T
Chloroethane	0.42 U	ug/L		0.42	T
Trichlorofluoromethane	0.26 U	ug/L		0.26	T
Acrolein (Propenal)	1.8 U	ug/L		1.8	T
1,1-Dichloroethylene	0.41 U	ug/L		0.41	T
Acrylonitrile	0.38 U	ug/L		0.38	T
Methylene Chloride	0.56 U	ug/L		0.56	T
trans-1,2-Dichloroethylene	0.39 U	ug/L		0.39	T
Methyl tert-butyl Ether (MTBE)	0.71 U	ug/L		0.71	T
1,1-Dichloroethane	0.38 U	ug/L		0.38	T
cis-1,2-Dichloroethylene	0.39 U	ug/L		0.39	T
Chloroform	0.37 U	ug/L		0.37	T
1,2-Dichloroethane	0.40 U	ug/L		0.40	T
1,1,1-Trichloroethane	0.39 U	ug/L		0.39	T
Carbon Tetrachloride	0.41 U	ug/L		0.41	T
Benzene	0.28 U	ug/L		0.28	T
1,2-Dichloropropane	0.18 U	ug/L		0.18	T
Trichloroethene	0.32 U	ug/L		0.32	T
Bromodichloromethane	0.39 U	ug/L		0.39	T
2-Chloroethyl Vinyl Ether	0.79 U	ug/L		0.79	T
cis-1,3-Dichloropropene	0.26 U	ug/L		0.26	T
trans-1,3-Dichloropropylene	0.26 U	ug/L		0.26	T
1,1,2-Trichloroethane	0.40 U	ug/L		0.40	T
Toluene	0.66 U	ug/L		0.66	T
Dibromochloromethane	0.36 U	ug/L		0.36	T
Tetrachloroethylene (PCE)	0.45 U	ug/L		0.45	T
Chlorobenzene	0.38 U	ug/L		0.38	T
Ethylbenzene	0.56 U	ug/L		0.56	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3151
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789002, T2122789003

Analysis Method: SW-846 8260B

Parameter	Results	Units	PQL	MDL	Lab
Bromoform	0.36 U	ug/L		0.36	T
1,1,2,2-Tetrachloroethane	0.20 U	ug/L		0.20	T
Isopropylbenzene	0.42 U	ug/L		0.42	T
1,3,5-Trimethylbenzene	0.39 U	ug/L		0.39	T
1,2,4-Trimethylbenzene	0.41 U	ug/L		0.41	T
1,3-Dichlorobenzene	0.40 U	ug/L		0.40	T
1,4-Dichlorobenzene	0.36 U	ug/L		0.36	T
1,2-Dichlorobenzene	0.44 U	ug/L		0.44	T
Xylene (Total)	1.3 U	ug/L		1.3	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	38	76	70 - 128	
Bromofluorobenzene (S)	ug/L	50	50	101	86 - 123	
Toluene-d8 (S)	ug/L	50	49	97	77 - 119	

Lab Control Sample (4125041); Lab Control Sample Duplicate (4125042)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dichlorodifluoromethane	ug/L	20	27	136		32	158	15		T
Chloromethane	ug/L	20	19	96		22	111	14		T
Vinyl Chloride	ug/L	20	19	95	70 - 130	22	110	15	20	T
Bromomethane	ug/L	20	18	92		25	124	30		T
Chloroethane	ug/L	20	18	89		20	102	14		T
Trichlorofluoromethane	ug/L	20	19	93		22	109	16		T
Acrolein (Propenal)	ug/L	100	58	58		67	67	14		T
1,1-Dichloroethylene	ug/L	20	19	95	70 - 130	21	106	11	20	T
Acrylonitrile	ug/L	20	19	94		22	110	16		T
Methylene Chloride	ug/L	20	20	99		22	110	11		T
trans-1,2-Dichloroethylene	ug/L	20	19	96		22	109	13		T
Methyl tert-butyl Ether (MT	ug/L	20	18	90	70 - 130	20	99	10	20	T
1,1-Dichloroethane	ug/L	20	19	96		22	110	14		T
cis-1,2-Dichloroethylene	ug/L	20	19	95	70 - 130	21	105	10	20	T
Chloroform	ug/L	20	18	91	70 - 130	21	103	12	20	T
1,2-Dichloroethane	ug/L	20	15	76		18	88	15		T
1,1,1-Trichloroethane	ug/L	20	18	88		20	99	12		T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3151
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789002, T2122789003

Analysis Method: SW-846 8260B

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Carbon Tetrachloride	ug/L	20	17	86		19	96	11		T
Benzene	ug/L	20	19	97	70 - 130	22	111	13	20	T
1,2-Dichloropropane	ug/L	20	20	101		22	111	9		T
Trichloroethene	ug/L	20	20	100	70 - 130	22	112	11	20	T
Bromodichloromethane	ug/L	20	19	93		21	103	10		T
2-Chloroethyl Vinyl Ether	ug/L	20	48	241		54	272	12		T
cis-1,3-Dichloropropene	ug/L	20	19	96		23	113	16		T
trans-1,3-Dichloropropylene	ug/L	20	19	94		22	110	16		T
1,1,2-Trichloroethane	ug/L	20	20	99		22	110	11		T
Toluene	ug/L	20	20	99	70 - 130	22	112	12	20	T
Dibromochloromethane	ug/L	20	18	90		21	104	14		T
Tetrachloroethylene (PCE)	ug/L	20	18	91	70 - 130	21	104	13	20	T
Chlorobenzene	ug/L	20	19	96	70 - 130	22	111	14	20	T
Ethylbenzene	ug/L	20	19	96	70 - 130	22	112	15	20	T
Bromoform	ug/L	20	16	80		19	97	19		T
1,1,2,2-Tetrachloroethane	ug/L	20	18	89		20	102	14		T
Isopropylbenzene	ug/L	20	20	101		23	115	13		T
1,3,5-Trimethylbenzene	ug/L	20	20	98		23	114	15		T
1,2,4-Trimethylbenzene	ug/L	20	20	99	70 - 130	23	113	13	20	T
1,3-Dichlorobenzene	ug/L	20	19	95	70 - 130	22	111	16	20	T
1,4-Dichlorobenzene	ug/L	20	19	96		22	108	12		T
1,2-Dichlorobenzene	ug/L	20	18	92	70 - 130	22	110	18	20	T
Xylene (Total)	ug/L	60	57	94	70 - 130	65	108	14	20	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	37	74	70 - 128	37	73	1		
Bromofluorobenzene (S)	ug/L	50	49	98	86 - 123	49	99	1		
Toluene-d8 (S)	ug/L	50	48	96	77 - 119	49	98	2		

Matrix Spike (4125043); Parent Lab Sample (T2122793001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dichlorodifluoromethane	ug/L	20	30	151		T
Chloromethane	ug/L	20	22	108		T

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Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3151
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789002, T2122789003

Analysis Method: SW-846 8260B

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Vinyl Chloride	ug/L	20	21	105	70 - 130	T
Bromomethane	ug/L	20	28	141		T
Chloroethane	ug/L	20	19	97		T
Trichlorofluoromethane	ug/L	20	21	105		T
Acrolein (Propenal)	ug/L	100	70	70		T
1,1-Dichloroethylene	ug/L	20	21	104	70 - 130	T
Acrylonitrile	ug/L	20	23	115		T
Methylene Chloride	ug/L	20	22	109		T
trans-1,2-Dichloroethylene	ug/L	20	21	104		T
Methyl tert-butyl Ether (MTBE)	ug/L	20	21	103	70 - 130	T
1,1-Dichloroethane	ug/L	20	21	106		T
cis-1,2-Dichloroethylene	ug/L	20	21	105	70 - 130	T
Chloroform	ug/L	20	20	100	70 - 130	T
1,2-Dichloroethane	ug/L	20	17	87		T
1,1,1-Trichloroethane	ug/L	20	19	97		T
Carbon Tetrachloride	ug/L	20	18	92		T
Benzene	ug/L	20	22	101	70 - 130	T
1,2-Dichloropropane	ug/L	20	22	109		T
Trichloroethene	ug/L	20	22	112	70 - 130	T
Bromodichloromethane	ug/L	20	21	104		T
2-Chloroethyl Vinyl Ether	ug/L	20	56	280		T
cis-1,3-Dichloropropene	ug/L	20	22	109		T
trans-1,3-Dichloropropylene	ug/L	20	21	107		T
1,1,2-Trichloroethane	ug/L	20	22	110		T
Toluene	ug/L	20	22	108	70 - 130	T
Dibromochloromethane	ug/L	20	21	106		T
Tetrachloroethylene (PCE)	ug/L	20	20	98	70 - 130	T
Chlorobenzene	ug/L	20	22	108	70 - 130	T
Ethylbenzene	ug/L	20	22	108	70 - 130	T
Bromoform	ug/L	20	20	102		T
1,1,2,2-Tetrachloroethane	ug/L	20	20	101		T
Isopropylbenzene	ug/L	20	21	107		T
1,3,5-Trimethylbenzene	ug/L	20	21	104		T
1,2,4-Trimethylbenzene	ug/L	20	21	99	70 - 130	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Batch: MSVt/3151
Preparation Method: SW-846 5030B
Associated Lab IDs: T2122789002, T2122789003

Analysis Method: SW-846 8260B

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,3-Dichlorobenzene	ug/L	20	21	103	70 - 130	T
1,4-Dichlorobenzene	ug/L	20	21	103		T
1,2-Dichlorobenzene	ug/L	20	21	104	70 - 130	T
Xylene (Total)	ug/L	60	64	106	70 - 130	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	38	75	70 - 128	
Bromofluorobenzene (S)	ug/L	50	47	94	86 - 123	
Toluene-d8 (S)	ug/L	50	49	97	77 - 119	

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAg/4678
Preparation Method: SM 5540 C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 5540 C

Method Blank(4123902)

Parameter	Results	Units	PQL	MDL	Lab
MBAS,as LAS,mol.wt.348	0.040 U	mg/L		0.040	G

Matrix Spike (4123903); Matrix Spike Duplicate (4123904); Parent Lab Sample (A2110438001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
MBAS,as LAS,mol.wt.348	mg/L	1	.7	65	40 - 139	.7	66	2	20	G

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Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8721
Preparation Method: SM 2120 B
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 2120 B

Method Blank(4120542)

Parameter	Results	Units	PQL	MDL	Lab
Color	4.3 U	PCU		4.3	T

Lab Control Sample (4120543)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Color	PCU	30	29	98	90 - 110	T

Sample Duplicate (4120545)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Color	.06	.06	PCU	0	20	T

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Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8723
Preparation Method: SM 5210B
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 5210B

Method Blank(4121293)

Parameter	Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand	2.0 U	mg/L		2.0	T

Lab Control Sample (4121294)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	182	92	84.60 - 115.40	T

Sample Duplicate (4121295)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	79.05	82.47	mg/L	4	20	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8728
Preparation Method: SM 2150 B
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 2150 B

Sample Duplicate (4121569)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Odor	0	0	TON @ 40°	0		T

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Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8743
Preparation Method: SM 4500NO3-F
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 4500NO3-F

Method Blank(4122564)

Parameter	Results	Units	PQL	MDL	Lab
Nitrate (as N)	0.092 U	mg/L		0.092	T
Nitrite (as N)	0.081 U	mg/L		0.081	T

Lab Control Sample (4122565)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrate (as N)	mg/L	1	1	99	90 - 110	T
Nitrite (as N)	mg/L	1	1	107	90 - 110	T

Matrix Spike (4122566); Matrix Spike Duplicate (4122567); Parent Lab Sample (T2122783001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	2	106	90 - 110	2	105	1	10	T
Nitrite (as N)	mg/L	1	1	95	90 - 110	1	96	1	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8760
Preparation Method: EPA 410.4
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 410.4

Method Blank(4123463)

Parameter	Results	Units	PQL	MDL	Lab
Chemical Oxygen Demand	20 U	mg/L		20	T

Lab Control Sample (4123464)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Chemical Oxygen Demand	mg/L	500	510	102	90 - 110	T

Matrix Spike (4123470); Matrix Spike Duplicate (4123471); Parent Lab Sample (T2122730002)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	610	106	90 - 110	610	106	0	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8791
Preparation Method: SM 3500-CR D
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 3500-CR D

Method Blank(4124528)

Parameter	Results	Units	PQL	MDL	Lab
Hexavalent Chromium	0.0021 U	mg/L		0.0021	T

Lab Control Sample (4124530)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Hexavalent Chromium	mg/L	0.10	.1	103	90 - 110	T

Matrix Spike (4124531); Matrix Spike Duplicate (4124532); Parent Lab Sample (T2122793001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Hexavalent Chromium	mg/L	0.10	.1	102	85 - 115	.1	103	1	20	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8889
Preparation Method: SM 2540D
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 2540D

Method Blank(4128987)

Parameter	Results	Units	PQL	MDL	Lab
Total Suspended Solids	1.0 U	mg/L		1.0	T

Lab Control Sample (4128988)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	208	104	85 - 115	T

Sample Duplicate (4128989)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	244	246	mg/L	1	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8892
Preparation Method: EPA 300.0
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: EPA 300.0

Method Blank(4129220)

Parameter	Results	Units	PQL	MDL	Lab
Fluoride	0.20 U	mg/L		0.20	T
Chloride	1.0 U	mg/L		1.0	T
Sulfate	1.0 U	mg/L		1.0	T

Lab Control Sample (4129221)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Fluoride	mg/L	2.50	2.6	104	90 - 110	T
Chloride	mg/L	25	25	101	90 - 110	T
Sulfate	mg/L	25	25	100	90 - 110	T

Matrix Spike (4129222); Matrix Spike Duplicate (4129223); Parent Lab Sample (T2122714001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Fluoride	mg/L	2	2.5	**123**	90 - 110	2.5	**124**	1	10	T
Chloride	mg/L	20	29	100	90 - 110	29	103	3	10	T
Sulfate	mg/L	20	110	93	90 - 110	110	99	6	10	T

Matrix Spike (4129224); Matrix Spike Duplicate (4129225); Parent Lab Sample (T2122834001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Fluoride	mg/L	2	2.2	108	90 - 110	2.2	109	1	10	T
Chloride	mg/L	20	90	94	90 - 110	90	97	3	10	T
Sulfate	mg/L	20	59	97	90 - 110	60	102	5	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/8909
Preparation Method: SM 2540 C
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 2540 C

Method Blank(4130156)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L		10	T

Lab Control Sample (4130157)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	700	106	85 - 115	T

Sample Duplicate (4130158)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	368	384	mg/L	4	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/9010
Preparation Method: SM 4500-CN-E
Associated Lab IDs: T2122789001, T2122789002
Analysis Method: SM 4500-CN-E

Method Blank(4135780)

Parameter	Results	Units	PQL	MDL	Lab
Cyanide	0.0040 U	mg/L		0.0040	T

Lab Control Sample (4135781)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Cyanide	mg/L	0.04	.04	90	90 - 110	T

Matrix Spike (4135784); Matrix Spike Duplicate (4135785); Parent Lab Sample (G2110345001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cyanide	mg/L	0.04	.04	93	90 - 110	.04	93	0	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Results

QC Batch: WCAt/9010
Preparation Method: SM 4500-CN-E
Associated Lab IDs: T2122789002
Analysis Method: SM 4500-CN-E

Matrix Spike (4135782); Matrix Spike Duplicate (4135783); Parent Lab Sample (T2122766001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cyanide	mg/L	0.04	.04	90	90 - 110	.04	97	7	10	T

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
CVAt/1440 - EPA 245.1			
T2122789001	Leachate Effluent	DGMt/2988	EPA 245.1
T2122789002	Field Blank	DGMt/2988	EPA 245.1
GCSj/2489 - EPA 515.3			
T2122789001	Leachate Effluent	GCSj/2488	EPA 515.3
GCSj/2497 - EPA 515.3			
T2122789002	Field Blank	GCSj/2496	EPA 515.3
GCSj/2522 - EPA 508			
T2122789001	Leachate Effluent	EXTj/3025	EPA 508
T2122789002	Field Blank	EXTj/3025	EPA 508
GCSm/1756 - EPA 8081			
T2122789001	Leachate Effluent	EXTm/2254	SW-846 3510C
T2122789002	Field Blank	EXTm/2254	SW-846 3510C
GCSm/1757 - SW-846 8082A			
T2122789001	Leachate Effluent	EXTm/2255	SW-846 3510C
T2122789002	Field Blank	EXTm/2255	SW-846 3510C
GCSt/1879 - EPA 552.2			
T2122789001	Leachate Effluent	GCSt/1878	EPA 552.2
T2122789002	Field Blank	GCSt/1878	EPA 552.2
GCSt/1892 - EPA 504.1			
T2122789001	Leachate Effluent	EXTt/2193	EPA 504.1
T2122789002	Field Blank	EXTt/2193	EPA 504.1
HPLj/1332 - EPA 549.2			
T2122789001	Leachate Effluent	EXTj/3024	EPA 549.2
T2122789002	Field Blank	EXTj/3024	EPA 549.2
HPLj/1335 - EPA 547			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
HPLj/1341 - EPA 531.1			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		

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FINAL

Workorder: SELF Plant Effluent (T2122789)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
ICMj/1646 - EPA 200.8			
T2122789001	Leachate Effluent	DGMj/2518	EPA 200.8
T2122789002	Field Blank	DGMj/2518	EPA 200.8
ICPt/2162 - EPA 200.7			
T2122789001	Leachate Effluent	DGMt/3016	EPA 200.7
T2122789002	Field Blank	DGMt/3016	EPA 200.7
MSSj/1732 - EPA 548.1			
T2122789001	Leachate Effluent	EXTj/3026	EPA 548.1
T2122789002	Field Blank	EXTj/3026	EPA 548.1
MSSj/1746 - EPA 525.2			
T2122789002	Field Blank	EXTj/3075	EPA 525.2
MSSj/1751 - EPA 525.2			
T2122789001	Leachate Effluent	EXTj/3100	EPA 525.2
MSSt/1543 - SW-846 8270C			
T2122789001	Leachate Effluent	EXTt/2169	SW-846 3510C
T2122789002	Field Blank	EXTt/2169	SW-846 3510C
MSVt/3143 - SW-846 8260B			
T2122789001	Leachate Effluent	MSVt/3142	SW-846 5030B
MSVt/3146 - EPA 524.2			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
MSVt/3147 - EPA 524.2			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
MSVt/3151 - SW-846 8260B			
T2122789002	Field Blank	MSVt/3150	SW-846 5030B
T2122789003	Travel Blank	MSVt/3150	SW-846 5030B
WCAg/4678 - SM 5540 C			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		

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Workorder: SELF Plant Effluent (T2122789)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/8721 - SM 2120 B			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8723 - SM 5210B			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8728 - SM 2150 B			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8743 - SM 4500NO3-F			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8760 - EPA 410.4			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8791 - SM 3500-CR D			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8889 - SM 2540D			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8892 - EPA 300.0			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8897 - SM 4500H+B			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		
WCAt/8909 - SM 2540 C			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		

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Workorder: SELF Plant Effluent (T2122789)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/9010 - SM 4500-CN-E			
T2122789001	Leachate Effluent		
T2122789002	Field Blank		

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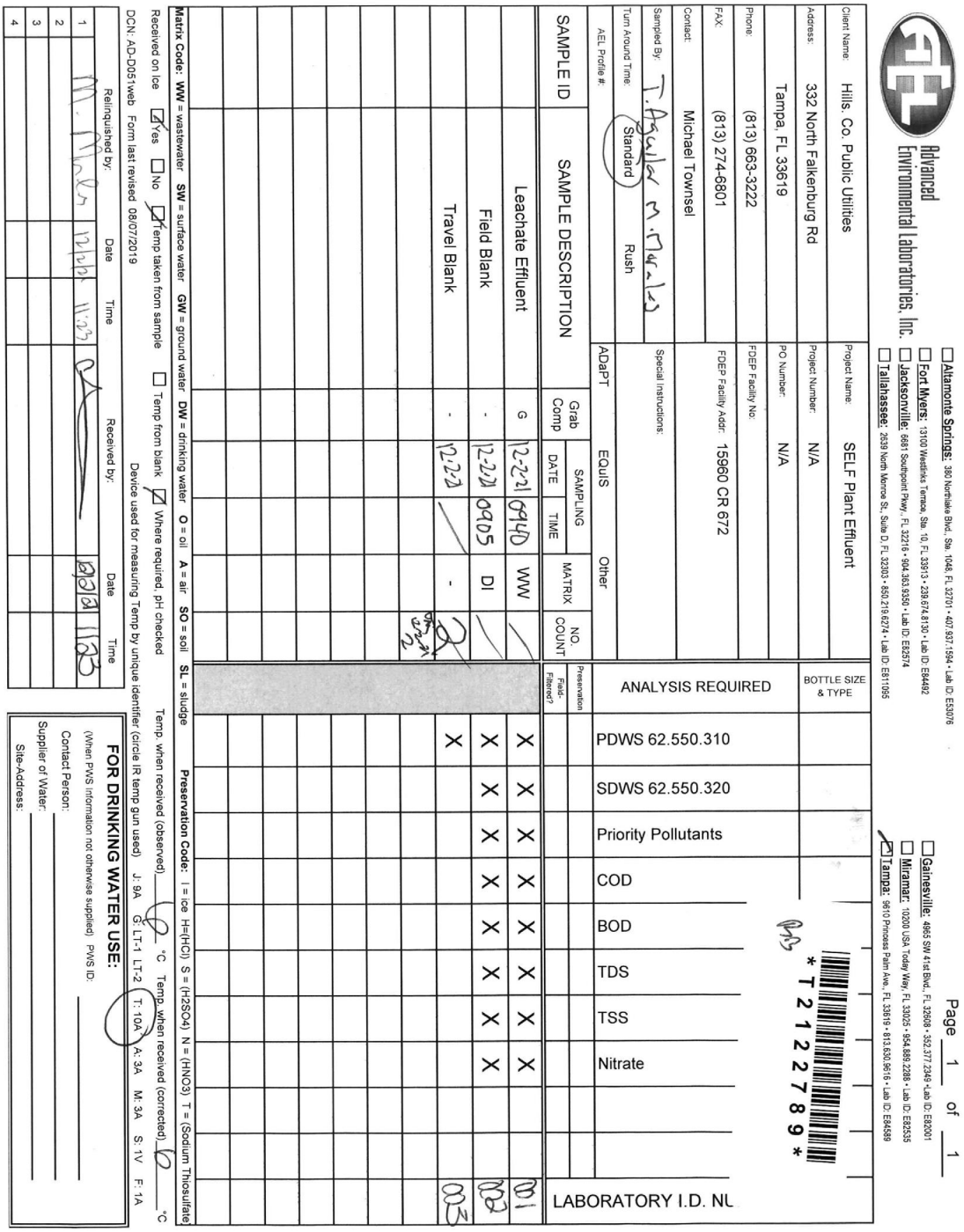
Workorder: SELF Plant Effluent (T2122789)



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Workorder: SELF Plant Effluent (T2122789)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant	SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 12/2/21

PURGING DATA

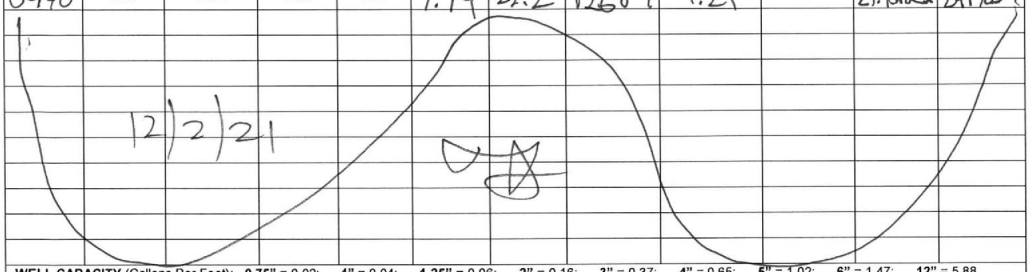
WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: Valve

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0940	N/A	N/A	N/A	N/A	7.74	22.2	12687	4.21	N/A	Lt. Brown	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: J. Aguilar M. Morales	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 940	SAMPLING ENDED AT: 1024
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

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

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** ORP: (0940) 190

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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FINAL

Workorder: SELF Plant Effluent (T2122789)

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: 12/2/21

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)

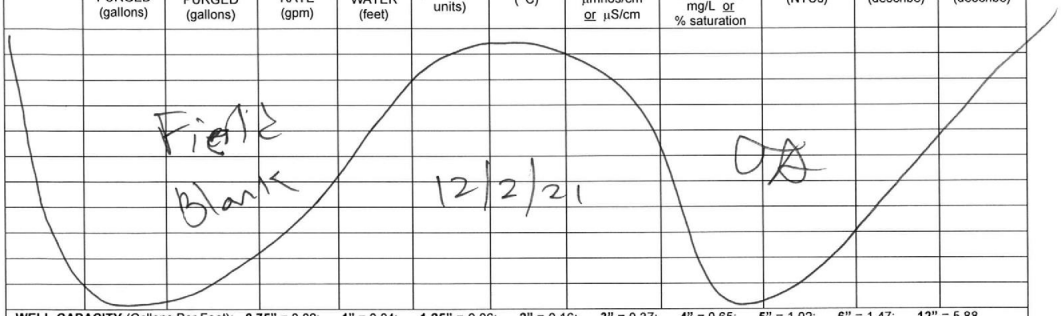
= (N/A feet – N/A feet) X N/A gallons/foot = N/A gallons

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)



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: T. Aguilar M. Morales	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 905	SAMPLING ENDED AT: 923
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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**

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)

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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:	All acceptance criteria were met.
Spikes	The matrix spike and matrix spike duplicate (MS & MSD) recoveries of Mercury for T2122789002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action is 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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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

The method detection limit (MDL) for T2122789001 and G2110451001 was elevated due to an excessive amount of sediment at the bottom of the sample bottle. The sample matrix clogged the cartridge during the extraction procedure; therefore, only 400mL and 250 mL, respectively (instead of the typical 1000mL) could be extracted.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The matrix spike (MS) recoveries of Simazine (at 69%), Alachlor (at 67%), Di(2-ethylhexyl) adipate (at 66%), and bis (2-ethylhexyl) phthalate (at 67%) (range 70-130%) for J2117007002 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 data were qualified accordingly.

Internal Standard: The data were reported as is.

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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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: All acceptance criteria were met.

Spikes: The matrix spike (MS) recoveries of Endothall for J2116419001 (at 45%) and J2116492001 (at 46%) (range 63-131%) 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 offending analyte was not detected in the client sample. The data were qualified accordingly.

The relative percent difference (RPD) for Endothall between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 4127158 in comparison with 4127159. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. 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.

Advanced Environmental Laboratories, Inc.

Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The lower control criterion was exceeded for the following surrogate in batch 3143: toluene-d8. 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) recovery of 1,2,4-trimethylbenzene for F2105210002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 5210B

Preparation:

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 All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: The relative percent difference (RPD) for G2110276001, G2110277004, T2122789001, T2122831001, T2122848004, and T2122848005 for BOD between the analyzed aliquots is greater than 30%. Failing RPD indicates inconsistency in the sample matrix. The associated LCS was within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

I. Receipt

M2105790 was received by the lab past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is qualified to indicate the holding time violation. (Client confirmation received after due date.)

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: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The lower control criteria were not meet for surrogate(s) TCMX/DCB in T2122789001 , M2105790005. The associated QC analysis recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outliers were flagged accordingly. No further corrective action was required.

Spikes The relative percent difference (RPD) for DDT , methoxychlor between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 4127171 in comparison with 4127172. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The matrix spike recovery of alpha-BHC ,beta-BHC, heptachlor , endrin aldehyde , E1 , endosulfan sulfate ,alpha-chlordane DCB for T21022789001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS), LCSD 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.

Advanced Environmental Laboratories, Inc.

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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 552.2
Preparation:	EPA 552.2

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 Bromoacetic acid for A2110225001 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.
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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 J2116321001, T2122789001, and T2122834001 was elevated due to an excessive amount of sediment at the bottom of the sample bottle. The sample matrix clogged the cartidge during the extraction procedure; therefore, only 780mL, 270mL and 590mL, respectively, (instead of the typical 1000mL) could be extracted.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The matrix spike (MS) recoveries of Diquat for J2116493001 (at 67%) were outside control criteria (Range 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: 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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 515.3

Preparation: EPA 515.3

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: The Method Blank was below the acceptance criteria for surrogate 2,4-Dichlorophenylacetic Acid for batch GCSj: 2497. However, the laboratory control sample and the laboratory control sample duplicate met control criteria for all target analytes indicating that the extraction efficiency was not affected. The data has been qualified accordingly.

Surrogates: The lower control criterion was exceeded for the following surrogate in 4134313MS (48%) associated to sample J2116492001, S2103095001 (49%), S2103098001 (15%), S2103107001 (16%), S2103109001 (38%), T2122789002 (25%), T2122834001 (33%), T2122883001 (17%), T2122891001 (9%), and T2122952001 (13%) due to suspected matrix interferences: 2,4-Dichlorophenylacetic acid (70-130%). The low bias recovery was attributed to low pH in the sample which may have impacted analyte hydrolysis during the extraction process. Additional NaOH volume was required to reach the method specified pH adjustment. The outlier surrogate was qualified accordingly.

Spikes The upper control criterion was exceeded for the following analyte in the matrix spike (4134314MS) associated to sample J2116493001: Pentachlorophenol. 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:

	The internal standard recovery in the analysis of J2116492001 [134% (70-130%)] was outside control criteria. Surrogate recovery met control criteria indicating that the quantitation of extraction efficiency was not affected by the elevated IS response. No further corrective action was required.
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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 515.3

Preparation: EPA 515.3

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: Method Blank (4134122MB) contained a low level of Dinoseb above the Method Detection Limit (MDL), but below the Method Reporting Limit (MRL). The associated samples did not contain the analyte in question above the Method Detection Limit (MDL); therefore, the presence of Dinoseb in the MB had no adverse effects on the data.

Surrogates: The lower control criterion was exceeded for the following surrogate in T2122658001 (13%), T2122668001(36%), T2122742001 (13%), T2122744001 (12%), T2122755002 (10%), T2122757002 (13%), T2122766002 (29%), and T2122789001 (25%) due to suspected matrix interferences: 2,4-Dichlorophenylacetic acid (70-130%). The low bias recovery was attributed to low pH in the sample which may have impacted analyte hydrolysis during the extraction process. Additional NaOH volume was required to reach the method specified pH adjustment. The outlier surrogate was qualified accordingly.

Spikes All acceptance criteria were met.

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.

Advanced Environmental Laboratories, Inc.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 (MS) and Matrix Spike Duplicate (MSD) recoveries of Sodium for F2105324005 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action is required.

The matrix spike (MS) and Matrix Spike Duplicate (MSD) recoveries of Sodium for T2122789001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action is required.

Internal Standard: All acceptance criteria were met.

Samples: T2122831001 had to be run at a dilution due to matrix interference resulting in instrument shutoff of the plasma.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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

The extractionist noted that sample(s) T2122789002 exhibited very high emulsions, which is known to adversely affect the recoveries in a negative fashion. The affected analytes and/or surrogates have been qualified to indicate matrix interference.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The upper control criterion was exceeded for the following surrogates in T2122658001, J2116340001, J2116341001, and G2110345001: Decachlorobiphenyl. No target analytes were detected in the samples. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. No further corrective action was required.

The control criteria for Decachlorobiphenyl in T2122789002 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, surrogate recovery was 56 % (criteria 70-130%). The affected surrogates were qualified to indicate matrix interference.

Spikes All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The lower control criteria were not meet for surrogate(s) TCMX in LCS . The associated QC analysis recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outliers were flagged accordingly. No further corrective action was required.

The control criteria for TCMX/DCB in T2122789001 , 002 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: 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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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:	All acceptance criteria were met.
Spikes	All acceptance criteria were met.
Internal Standard:	Due to non-target background analytes, the proper quantitation of the internal standard in A2110457001, G2110387001, J2116345003, J2116345004, J2116345005, J2116345006, J2116345007, J2116345008, J2116345009, and T2122789001 was obstructed. In order to return the internal standard to within acceptance limits, the samples were analyzed at a dilution.
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.

Advanced Environmental Laboratories, Inc.

Work Order: T2122789
Client: Hillsborough County Public Utilities
Project ID: SELF Plant Effluent

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 were exceeded for the following surrogate in the Method Blank (MB): Phenol-d6. Surrogate recoveries in QC samples (LCS/LCSD/MS) met criteria, indicating the analysis was in control. The surrogate outlier is qualified accordingly. No further corrective action was required.
Spikes	All acceptance criteria were met.
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.

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025

Report Date: December 15, 2021

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2122789001-P,S,T

Sample Collection: 12-02-21/0940
Lab ID No: 21.18981
Lab Custody Date: 12-07-21/1555
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	8.4 ± 1.9	12-11-21/0758	EPA 00-02	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.4 ± 0.5	Calc	Calc	0.3
Radium-226	pCi/l	3.4 ± 0.5	12-9-21/1741	EPA 903.0*	0.3
Radium-228	pCi/l	0.7 U ± 0.5	12-13-21/1645	EPA Ra-05	0.7

Alpha Standard: Th-230

* 127% 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.

KNL ENVIROMENTAL TESTING, INC. | 3202 NORTH FLORIDA AVENUE | TAMPA, FLORIDA 33603
813.229.2879 | KNLENVIRONMENTAL.COM

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025

Report Date: December 14, 2021

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: T2122789002-P,S,T

Sample Collection: 12-02-21/0905
Lab ID No: 21.18982
Lab Custody Date: 12-07-21/1555
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.8 U ± 0.4	12-10-21/0755	EPA 900.0	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.2 U ± 0.1	Calc	Calc	0.2
Radium-226	pCi/l	0.2 U ± 0.1	12-9-21/1741	EPA 903.0*	0.2
Radium-228	pCi/l	0.3 U ± 0.5	12-13-21/1645	EPA Ra-05	0.3

Alpha Standard: Th-230

* 118% 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.

KNL ENVIROMENTAL TESTING, INC. | 3202 NORTH FLORIDA AVENUE | TAMPA, FLORIDA 33603
813.229.2879 | KNLENVIRONMENTAL.COM

Advanced Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
☐ **Fort Myers:** 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ **Jacksonville:** 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ **Tallahassee:** 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
☐ **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

RT2-17
21-18981-2

Client Name:	Advanced Environmental Lab
Address:	Tampa Fl 33619
Phone:	813-630-9616
FAX:	813-630-4327
Contact:	mcammarata@aellab.com
Sampled By:	
Turn Around Time:	☐ STANDARD ☐ RUSH
AEL Profile #:	

Project Name: T2122789
Project Number:
PO Number: T-PO-15140
FDEP Facility No:
FDEP Facility Address:

☐ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED HNE900-W-A	HNR226-W	HNR228-W	LABORATORY I.D. NUMBER
							Preservation				
							Field-Filtered?				
	T2122789001-P,S,T		12.02.2021	9:40	WA	3		X	X	X	001
	T2122789002-P,S,T		12.02.2021	9:05	WA	3		X	X	X	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 = (H_2SO_4) N = (HNO_3) 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)_____

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

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Bradley Biega	12/2/2021	17:00			
2		12/2/21	14:40		12/2/21	1555
3						
4						

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

CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

January 18, 2022

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

Re: Dioxin Subcontract - Tampa
Work Order: 19153
SDG: T2122789

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 08, 2021. 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

Cynde Larkins
Project Manager

Purchase Order: T-PO-15141
Enclosures

Advanced Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
☐ **Fort Myers:** 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ **Jacksonville:** 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ **Tallahassee:** 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
☐ **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

CFA WO#19153

Page_____ of _____

Client Name:	Advanced Environmental Lab
Address:	Tampa Fl 33619
Phone:	813-630-9616
FAX:	813-630-4327
Contact:	mcammarata@aellab.com
Sampled By:	
Turn Around Time: ☐ STANDARD ☐ RUSH	
AEL Profile #:	

Project Name:T2122789
Project Number:T-PO-15141
PO Number:
FDEP Facility No:
FDEP Facility Address:
☐ADaPT ☐EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: TCDD Dioxin Only	LABORATORY I.D. NUMBER
	T2122789001		12.02.21	9:40	WA	1	Preservation	X	001
	T2122789002		12.02.21	9:05	WA	1	Field-Filtered?	X	

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

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

Received on Ice ☑Yes ☐No ☑Temp taken from sample ☐ Temp from blank ☐Where required, pH checked Temp. when received (observed) 2.5 °C Temp. when received (corrected) 2.4 °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

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Bradley Biega	12.7.21	17:00	Cynde Larkins	08DEC21	1145
2						
3						
4						

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: AELI	Work Order: 19153
Shipping Company: FedEx	Date/Time Received: 08 DEC 21 1145

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) 2.5° - 0.1 = 2.4°C
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: Minimal visible solids (<1%) in T2122789001 only
5	Samples requiring chemical preservation at proper pH?		✓		Sample IDs, containers affected and pH observed: pH=8 on -001 and pH=7 on -002 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: 1- 1L NMAG bottle per sample. 2 total
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

 Checklist performed by: Initials: CL Date: 08 DEC 21 CF-UD-F-7

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
Advanced Environmental Laboratories, Incorporated (AELI)
SDG T2122789
Work Order 19153

Method/Analysis Information

Product: **TCDD Only by EPA Method 1613B in Liquids**
Analytical Method: EPA Method 1613B
Extraction Method: SW846 3520C
Analytical Batch Number: 48791
Clean Up Batch Number: 48790
Extraction Batch Number: 48789

Sample Analysis

Samples were received within temperature requirements at 2.4°C (19153001, 19153002). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12031035	Method Blank (MB)
12031036	Laboratory Control Sample (LCS)
12031037	Laboratory Control Sample Duplicate (LCSD)
19153001	T2122789001
19153002	T2122789002

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# 20.

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) (CVS) 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

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

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
HRP750_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

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: T2122789 CFA Work Order: 19153

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

J Value is estimated

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: Alexis Finks**

Date: 18 JAN 2022 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**19153001**	**Date Collected:**	**12/02/2021 09:40**	**Matrix:**	**WATER**
Client Sample:	**1613B TCDD Water**	**Date Received:**	**12/08/2021 11:45**		
Client ID:	**T2122789001**			**Prep Basis:**	**As Received**
Batch ID:	**48791**	**Method:**	**EPA Method 1613B**		
Run Date:	**01/13/2022 21:32**	**Analyst:**	**CLP**	**Instrument:**	**HRP750**
Data File:	**A13JAN22B-8**			**Dilution:**	**1**
Prep Batch:	**48789**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**11-JAN-22**	**Prep Aliquot:**	**988.5 mL**		

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

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1600	2020	pg/L	79.0	(31%-137%)
37Cl-2,3,7,8-TCDD		191	202	pg/L	94.3	(42%-164%)

Comments:

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

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**19153002**	**Date Collected:**	**12/02/2021 09:05**	**Matrix:**	**WATER**
Client Sample:	**1613B TCDD Water**	**Date Received:**	**12/08/2021 11:45**		
Client ID:	**T2122789002**			**Prep Basis:**	**As Received**
Batch ID:	**48791**	**Method:**	**EPA Method 1613B**		
Run Date:	**01/13/2022 22:20**	**Analyst:**	**CLP**	**Instrument:**	**HRP750**
Data File:	**A13JAN22B-9**			**Dilution:**	**1**
Prep Batch:	**48789**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**11-JAN-22**	**Prep Aliquot:**	**975.5 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD	U	10.3	pg/L	10.3

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1680	2050	pg/L	82.2	(31%-137%)
37Cl-2,3,7,8-TCDD		209	205	pg/L	102	(42%-164%)

Comments:

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

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: T2122789

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12031036	LCS for batch 48789	13C-2,3,7,8-TCDD		68.1	(25%-141%)
		37Cl-2,3,7,8-TCDD		89.9	(37%-158%)
12031037	LCSD for batch 48789	13C-2,3,7,8-TCDD		79.4	(25%-141%)
		37Cl-2,3,7,8-TCDD		88.0	(37%-158%)
12031035	MB for batch 48789	13C-2,3,7,8-TCDD		64.5	(31%-137%)
		37Cl-2,3,7,8-TCDD		87.7	(42%-164%)
19153001	T2122789001	13C-2,3,7,8-TCDD		79.0	(31%-137%)
		37Cl-2,3,7,8-TCDD		94.3	(42%-164%)
19153002	T2122789002	13C-2,3,7,8-TCDD		82.2	(31%-137%)
		37Cl-2,3,7,8-TCDD		102	(42%-164%)

* 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

SDG Number: T2122789 **Sample Type:** Laboratory Control Sample

Client ID: LCS for batch 48789 **Matrix:** WATER

Lab Sample ID: 12031036

Instrument: HRP750 **Analysis Date:** 01/13/2022 16:44 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 48789

Batch ID: 48791

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	164	82.1	73-146

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: T2122789 **Sample Type:** Laboratory Control Sample Duplicate

Client ID: LCSD for batch 48789 **Matrix:** WATER

Lab Sample ID: 12031037

Instrument: HRP750 **Analysis Date:** 01/13/2022 17:32 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 48789

Batch ID: 48791

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	170	85.1	73-146	3.53	0-20

Method Blank Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 48789**	**Instrument ID:**	**HRP750**	**Data File:**	**A13JAN22B-4**
Lab Sample ID:	**12031035**	**Prep Date:**	**11-JAN-22**	**Analyzed:**	**01/13/22 18:20**
Column:					

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 48789	12031036	A13JAN22B-2	01/13/22	1644
02	LCSD for batch 48789	12031037	A13JAN22B-3	01/13/22	1732
03	T2122789001	19153001	A13JAN22B-8	01/13/22	2132
04	T2122789002	19153002	A13JAN22B-9	01/13/22	2220

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12031035**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 48789**				
Client ID:	**MB for batch 48789**			**Prep Basis:**	**As Received**
Batch ID:	**48791**	**Method:**	**EPA Method 1613B**		
Run Date:	**01/13/2022 18:20**	**Analyst:**	**CLP**	**Instrument:**	**HRP750**
Data File:	**A13JAN22B-4**			**Dilution:**	**1**
Prep Batch:	**48789**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**11-JAN-22**	**Prep Aliquot:**	**1000 mL**		

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

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1290	2000	pg/L	64.5	(31%-137%)
37Cl-2,3,7,8-TCDD		175	200	pg/L	87.7	(42%-164%)

Comments:

J Value is estimated

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

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12031036**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 48789**				
Client ID:	**LCS for batch 48789**			**Prep Basis:**	**As Received**
Batch ID:	**48791**	**Method:**	**EPA Method 1613B**		
Run Date:	**01/13/2022 16:44**	**Analyst:**	**CLP**	**Instrument:**	**HRP750**
Data File:	**A13JAN22B-2**			**Dilution:**	**1**
Prep Batch:	**48789**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**11-JAN-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD		164	pg/L	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1360	2000	pg/L	68.1	(25%-141%)
37Cl-2,3,7,8-TCDD		180	200	pg/L	89.9	(37%-158%)

Comments:

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

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**T2122789**	**Client:**	**AELI001**	**Project:**	**AELI00716**
Lab Sample ID:	**12031037**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 48789**				
Client ID:	**LCSD for batch 48789**			**Prep Basis:**	**As Received**
Batch ID:	**48791**	**Method:**	**EPA Method 1613B**		
Run Date:	**01/13/2022 17:32**	**Analyst:**	**CLP**	**Instrument:**	**HRP750**
Data File:	**A13JAN22B-3**			**Dilution:**	**1**
Prep Batch:	**48789**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**11-JAN-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	PQL
1746-01-6	2,3,7,8-TCDD		170	pg/L	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1590	2000	pg/L	79.4	(25%-141%)
37Cl-2,3,7,8-TCDD		176	200	pg/L	88.0	(37%-158%)

Comments:

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