41193

Public Utilities
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Hillsborough County Government Florida

Public Utilities

July 12, 2016

Mr. John Morris, P.G.
Department of Environmental Protection
Southwest District Office
13051 Telecom Parkway
Tampa, FL 33637

Re: **Southeast County Landfill**
Leachate Treatment Plant (WACS Testsite #19864)
Effluent Analytical Data Report (Semi-Annual)

Dear Mr. Morris:

In accordance with part 9.1.2 of the June 2013 Leachate Management Plan (LMP) for the Southeast County Landfill (SCLF), the Hillsborough County Public Utilities Department (County) is pleased to provide the semi-annual laboratory analytical data for the effluent collected at the on-site Leachate Treatment and Reclamation Facility (LTRF). The permit requires the County to sample and analyze the treated effluent semi-annually or within thirty (30) days after the plant has been down for an extended amount of time due to repairs and maintenance.

On April 15, 2016, the County collected the required analytical parameters from the dedicated sampling port at the plant after undergoing renovations over the past eighteen (18) months. The parameters included the primary drinking water standards (PDWS) and secondary drinking water standards (SDWS), as listed in Chapter 62-550.310 and .320, Florida Administrative Code, and the Priority Pollutants listed in 40 CFR Part 423, Appendix A.

No unusual observations were noted in the data set from this sampling event. In accordance with the LMP, the County will collect the next required semi-annual analysis in October 2016.

Should you have any questions or comments concerning the information provided in this submittal, please feel free to contact us at (813) 663-3222 or (813) 663-3221, respectively.

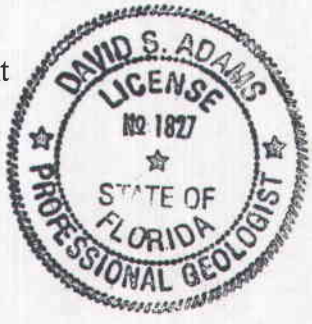
Respectfully,

7/12/2016

Michael D. Townsel
Senior Hydrologist
Public Utilities Department
Environmental Services

7/12/2016

David S. Adams, P.G.
Environmental Manager
Public Utilities Department
Environmental Services



DSA/mdt

xc: Kimberly Byer, Division Director, Public Works Dept.
Larry Ruiz, GM III, Public Works, Dept.
Jeffry Greenwell, GMIII, Public Utilities
Ron Cope, Hillsborough County EPC

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Advanced Environmental Laboratories, Inc
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Fax: (813)630-4327

May 24, 2016

David Adams
Hillsborough Co Public Utilites
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T1605201 SELF Plant Effluent

Dear David Adams:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, April 15, 2016. 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 Brooks
HBrooks@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: T1605201 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1605201001	SELF Effluent	Water	4/15/2016 11:50	4/15/2016 13:10
T1605201002	Field Blank	Water	4/15/2016 11:25	4/15/2016 13:10

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Analytical Method: Field Measurements							
Conductivity	**14777**		**umhos/cm**	**1**			4/15/2016 11:50	
Dissolved Oxygen	**2.32**		**mg/L**	**1**			4/15/2016 11:50	
Temperature	**28.03**		**°C**	**1**			4/15/2016 11:50	
pH	**8.63**		**SU**	**1**			4/15/2016 11:50	
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Aluminum	**1.2**	**U**	**mg/L**	**10**	6.0	1.2	5/17/2016 15:24	T
Barium	**0.018**	**I**	**mg/L**	**10**	0.020	0.0049	5/17/2016 15:24	T
Beryllium	**0.0011**	**U**	**mg/L**	**10**	0.0060	0.0011	5/17/2016 15:24	T
Chromium	**0.0052**	**I**	**mg/L**	**10**	0.020	0.0030	5/17/2016 15:24	T
Iron	**1.2**		**mg/L**	**10**	1.0	0.21	5/17/2016 15:24	T
Nickel	**0.019**	**I**	**mg/L**	**10**	0.090	0.012	5/17/2016 15:24	T
Sodium	**2500**	**J4**	**mg/L**	**35**	7.0	1.5	5/11/2016 23:01	T
Analysis Desc: E200.8 Analysis,Waters	Preparation Method: EPA 200.8 Analytical Method: EPA 200.8							
Antimony	**0.00098**	**I**	**mg/L**	**2**	0.0014	0.000091	4/18/2016 20:14	J
Arsenic	**0.0040**		**mg/L**	**2**	0.0020	0.00015	4/18/2016 20:14	J
Cadmium	**0.000056**	**U**	**mg/L**	**2**	0.0010	0.000056	4/18/2016 20:14	J
Copper	**0.014**		**mg/L**	**2**	0.0014	0.00022	4/18/2016 20:14	J
Lead	**0.00061**	**I**	**mg/L**	**2**	0.0014	0.00048	4/18/2016 20:14	J
Manganese	**0.054**		**mg/L**	**2**	0.0020	0.00011	4/18/2016 20:14	J
Selenium	**0.0012**	**U**	**mg/L**	**2**	0.010	0.0012	4/18/2016 20:14	J
Silver	**0.00040**	**I,V**	**mg/L**	**2**	0.0010	0.000054	4/18/2016 20:14	J
Thallium	**0.00011**	**U**	**mg/L**	**2**	0.00040	0.00011	4/18/2016 20:14	J
Uranium	**2.4**		**ug/L**	**2**	0.40	0.14	4/18/2016 20:14	J
Zinc	**0.019**		**mg/L**	**2**	0.010	0.0016	4/18/2016 20:14	J
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000084**	**U**	**mg/L**	**1**	0.00010	0.000084	4/19/2016 11:04	T
SEMIVOLATILES								

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E504.1 Analysis, Water	Preparation Method: EPA 504.1 Analytical Method: EPA 504.1							
1,2-Dibromo-3-Chloropropane	**0.0097**	**U**	**ug/L**	**1**	0.020	0.0097	4/28/2016 07:20	T
Ethylene Dibromide (EDB)	**0.0069**	**U**	**ug/L**	**1**	0.020	0.0069	4/28/2016 07:20	T
Tetrachloro-m-xylene (S)	**17**	**J4**	**%**	**1**	64-150		4/28/2016 07:20	
Analysis Desc: E508 Analysis, Water	Preparation Method: EPA 508 Analytical Method: EPA 508							
Chlordane (technical)	**0.26**	**U**	**ug/L**	**5**	1.0	0.26	4/23/2016 06:39	J
Endrin	**0.034**	**U**	**ug/L**	**5**	0.10	0.034	4/23/2016 06:39	J
Heptachlor	**0.030**	**U**	**ug/L**	**5**	0.10	0.030	4/23/2016 06:39	J
Heptachlor Epoxide	**0.026**	**U**	**ug/L**	**5**	0.10	0.026	4/23/2016 06:39	J
Hexachlorobenzene	**0.032**	**U**	**ug/L**	**5**	0.10	0.032	4/23/2016 06:39	J
Hexachlorocyclopentadiene	**0.062**	**U**	**ug/L**	**5**	0.10	0.062	4/23/2016 06:39	J
Methoxychlor	**0.034**	**U**	**ug/L**	**5**	0.10	0.034	4/23/2016 06:39	J
PCBs	**0.55**	**U**	**ug/L**	**5**	1.0	0.55	4/23/2016 06:39	J
Toxaphene	**0.60**	**U**	**ug/L**	**5**	1.0	0.60	4/23/2016 06:39	J
gamma-BHC (Lindane)	**0.036**	**U**	**ug/L**	**5**	0.10	0.036	4/23/2016 06:39	J
Tetrachloro-m-xylene (S)	**0**	**1**	**%**	**5**	70-130		4/23/2016 06:39	
Decachlorobiphenyl (S)	**0**	**1**	**%**	**5**	70-130		4/23/2016 06:39	
Analysis Desc: E515.3 Analysis, Water	Preparation Method: EPA 515.3 Analytical Method: EPA 515.3							
2,4-D	**1.5**	**U**	**ug/L**	**1**	5.0	1.5	4/29/2016 02:23	J
Dalapon	**1.0**	**U**	**ug/L**	**1**	5.0	1.0	4/29/2016 02:23	J
Dinoseb	**0.86**	**U,J4**	**ug/L**	**1**	2.5	0.86	4/29/2016 02:23	J
Pentachlorophenol	**0.069**	**U,J4**	**ug/L**	**1**	0.50	0.069	4/29/2016 02:23	J
Picloram	**0.23**	**U,J4**	**ug/L**	**1**	0.50	0.23	4/29/2016 02:23	J
Silvex (2,4,5-TP)	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	4/29/2016 02:23	J
2,4-Dichlorophenylacetic acid (S)	**10**	**J4**	**%**	**1**	70-130		4/29/2016 02:23	
Analysis Desc: E525.2 Analysis, Water	Preparation Method: EPA 525.2 Analytical Method: EPA 525.2							
Alachlor	**0.29**	**U**	**ug/L**	**1**	0.56	0.29	4/26/2016 19:49	J
Atrazine	**0.18**	**U**	**ug/L**	**1**	0.56	0.18	4/26/2016 19:49	J
Benzo[a]pyrene	**0.22**	**U**	**ug/L**	**2**	1.1	0.22	4/28/2016 08:51	J
Di(2-ethylhexyl) adipate	**1.1**	**U**	**ug/L**	**1**	1.1	1.1	4/26/2016 19:49	J
Simazine	**0.21**	**U**	**ug/L**	**1**	0.56	0.21	4/26/2016 19:49	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water
Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
bis(2-Ethylhexyl) phthalate	**3.4**	**U**	**ug/L**	**2**	4.5	3.4	4/28/2016 08:51	J
p-Terphenyl-d14 (S)	**85**		**%**	**2**	70-130		4/28/2016 08:51	
Analysis Desc: E531.1 Analysis, Water	Analytical Method: EPA 531.1							
Carbofuran	**0.28**	**U**	**ug/L**	**1**	2.5	0.28	4/21/2016 16:51	J
Oxamyl	**0.57**	**U**	**ug/L**	**1**	2.5	0.57	4/21/2016 16:51	J
Analysis Desc: E547 Analysis, Water	Analytical Method: EPA 547							
Glyphosate	**6.5**	**U**	**ug/L**	**1**	50	6.5	4/19/2016 13:46	J
Analysis Desc: E548.1 Analysis, Water	Preparation Method: EPA 548.1 Analytical Method: EPA 548.1							
Endothall	**1.2**	**U**	**ug/L**	**1**	8.3	1.2	4/27/2016 17:08	J
Analysis Desc: E549.2 Analysis, Water	Preparation Method: EPA 549.2 Analytical Method: EPA 549.2							
Diquat	**9.0**	**U**	**ug/L**	**1**	85	9.0	4/20/2016 14:13	J
Analysis Desc: 552.2 Analysis,Water,HAA	Preparation Method: EPA 552.2 Analytical Method: EPA 552.2							
Bromoacetic Acid	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	4/27/2016 10:04	T
Chloroacetic Acid	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	4/27/2016 10:04	T
Dibromoacetic Acid	**0.58**	**I**	**ug/L**	**1**	1.0	0.54	4/27/2016 10:04	T
Dichloroacetic Acid	**0.81**	**U**	**ug/L**	**1**	1.0	0.81	4/27/2016 10:04	T
Total Haloacetic Acids (HAA5)	**0.58**	**I**	**ug/L**	**1**	1.0	0.20	4/27/2016 10:04	T
Trichloroacetic Acid	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	4/27/2016 10:04	T
2,3-Dibromopropionic Acid (S)	**105**		**%**	**1**	70-130		4/27/2016 10:04	
Analysis Desc: 8081A Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8081							
4,4`-DDD	**0.0017**	**U**	**ug/L**	**1**	0.020	0.0017	4/19/2016 21:23	J
4,4`-DDE	**0.0038**	**U**	**ug/L**	**1**	0.020	0.0038	4/19/2016 21:23	J
4,4`-DDT	**0.0022**	**U**	**ug/L**	**1**	0.020	0.0022	4/19/2016 21:23	J
Aldrin	**0.0019**	**U**	**ug/L**	**1**	0.020	0.0019	4/19/2016 21:23	J
Dieldrin	**0.0011**	**U**	**ug/L**	**1**	0.020	0.0011	4/19/2016 21:23	J
Endosulfan I	**0.0031**	**U**	**ug/L**	**1**	0.020	0.0031	4/19/2016 21:23	J
Endosulfan II	**0.0027**	**U**	**ug/L**	**1**	0.020	0.0027	4/19/2016 21:23	J
Endosulfan Sulfate	**0.0032**	**U**	**ug/L**	**1**	0.020	0.0032	4/19/2016 21:23	J
Endrin Aldehyde	**0.0025**	**U**	**ug/L**	**1**	0.020	0.0025	4/19/2016 21:23	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
alpha-BHC	**0.0031**	**U**	**ug/L**	**1**	0.020	0.0031	4/19/2016 21:23	J
beta-BHC	**0.0019**	**U**	**ug/L**	**1**	0.020	0.0019	4/19/2016 21:23	J
delta-BHC	**0.00087**	**U**	**ug/L**	**1**	0.020	0.00087	4/19/2016 21:23	J
Tetrachloro-m-xylene (S)	**45**		**%**	**1**	44-124		4/19/2016 21:23	
Decachlorobiphenyl (S)	**36**	**J4**	**%**	**1**	48-137		4/19/2016 21:23	
Analysis Desc: 8082A PCB Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8082A							
Aroclor 1016 (PCB-1016)	**0.065**	**U**	**ug/L**	**1**	0.20	0.065	4/18/2016 23:29	J
Aroclor 1221 (PCB-1221)	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	4/18/2016 23:29	J
Aroclor 1232 (PCB-1232)	**0.098**	**U**	**ug/L**	**1**	0.20	0.098	4/18/2016 23:29	J
Aroclor 1242 (PCB-1242)	**0.097**	**U**	**ug/L**	**1**	0.20	0.097	4/18/2016 23:29	J
Aroclor 1248 (PCB-1248)	**0.068**	**U**	**ug/L**	**1**	0.20	0.068	4/18/2016 23:29	J
Aroclor 1254 (PCB-1254)	**0.052**	**U**	**ug/L**	**1**	0.20	0.052	4/18/2016 23:29	J
Aroclor 1260 (PCB-1260)	**0.080**	**U**	**ug/L**	**1**	0.20	0.080	4/18/2016 23:29	J
Tetrachloro-m-xylene (S)	**42**	**J4**	**%**	**1**	61-119		4/18/2016 23:29	
Decachlorobiphenyl (S)	**29**	**J4**	**%**	**1**	44-136		4/18/2016 23:29	
Analysis Desc: 8270C Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C							
1,2-Diphenylhydrazine	**0.96**	**U**	**ug/L**	**1**	5.0	0.96	4/19/2016 09:10	J
1,3-Dichlorobenzene	**1.0**	**U**	**ug/L**	**1**	5.0	1.0	4/19/2016 09:10	J
2,4,6-Trichlorophenol	**0.93**	**U**	**ug/L**	**1**	5.0	0.93	4/19/2016 09:10	J
2,4-Dichlorophenol	**0.90**	**U**	**ug/L**	**1**	5.0	0.90	4/19/2016 09:10	J
2,4-Dimethylphenol	**2.6**	**U**	**ug/L**	**1**	5.0	2.6	4/19/2016 09:10	J
2,4-Dinitrophenol	**0.62**	**U**	**ug/L**	**1**	10	0.62	4/19/2016 09:10	J
2,4-Dinitrotoluene (2,4-DNT)	**0.60**	**U**	**ug/L**	**1**	5.0	0.60	4/19/2016 09:10	J
2,6-Dinitrotoluene (2,6-DNT)	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	4/19/2016 09:10	J
2-Chloronaphthalene	**0.97**	**U**	**ug/L**	**1**	5.0	0.97	4/19/2016 09:10	J
2-Chlorophenol	**1.2**	**U**	**ug/L**	**1**	5.0	1.2	4/19/2016 09:10	J
2-Methyl-4,6-dinitrophenol	**0.77**	**U**	**ug/L**	**1**	5.0	0.77	4/19/2016 09:10	J
2-Nitrophenol	**0.63**	**U**	**ug/L**	**1**	5.0	0.63	4/19/2016 09:10	J
3,3`-Dichlorobenzidine	**1.3**	**U**	**ug/L**	**1**	5.0	1.3	4/19/2016 09:10	J
4-Bromophenyl Phenyl Ether	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	4/19/2016 09:10	J
4-Chloro-3-methylphenol	**0.62**	**U**	**ug/L**	**1**	5.0	0.62	4/19/2016 09:10	J
4-Chlorophenyl Phenyl Ether	**0.69**	**U**	**ug/L**	**1**	5.0	0.69	4/19/2016 09:10	J
4-Nitrophenol	**0.62**	**U**	**ug/L**	**1**	5.0	0.62	4/19/2016 09:10	J
Acenaphthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	4/19/2016 09:10	J
Acenaphthylene	**0.024**	**U**	**ug/L**	**1**	0.20	0.024	4/19/2016 09:10	J
Anthracene	**0.0090**	**U**	**ug/L**	**1**	0.20	0.0090	4/19/2016 09:10	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzidine	**0.74**	**U**	**ug/L**	**1**	5.0	0.74	4/19/2016 09:10	J
Benzo[a]anthracene	**0.0099**	**U**	**ug/L**	**1**	0.20	0.0099	4/19/2016 09:10	J
Benzo[b]fluoranthene	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	4/19/2016 09:10	J
Benzo[g,h,i]perylene	**0.016**	**U**	**ug/L**	**1**	0.20	0.016	4/19/2016 09:10	J
Benzo[k]fluoranthene	**0.020**	**U**	**ug/L**	**1**	0.20	0.020	4/19/2016 09:10	J
Butyl benzyl phthalate	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	4/19/2016 09:10	J
Chrysene	**0.012**	**U**	**ug/L**	**1**	0.20	0.012	4/19/2016 09:10	J
Di-n-Butyl Phthalate	**0.88**	**U**	**ug/L**	**1**	5.0	0.88	4/19/2016 09:10	J
Di-n-octyl Phthalate	**1.2**	**U**	**ug/L**	**1**	5.0	1.2	4/19/2016 09:10	J
Dibenzo[a,h]anthracene	**0.019**	**U**	**ug/L**	**1**	0.20	0.019	4/19/2016 09:10	J
Diethyl phthalate	**0.98**	**U**	**ug/L**	**1**	5.0	0.98	4/19/2016 09:10	J
Dimethyl phthalate	**9.9**	**U**	**ug/L**	**1**	10	9.9	4/19/2016 09:10	J
Fluoranthene	**0.014**	**U**	**ug/L**	**1**	0.20	0.014	4/19/2016 09:10	J
Fluorene	**0.016**	**U**	**ug/L**	**1**	0.20	0.016	4/19/2016 09:10	J
Hexachlorobutadiene	**0.87**	**U**	**ug/L**	**1**	5.0	0.87	4/19/2016 09:10	J
Hexachloroethane	**1.2**	**U**	**ug/L**	**1**	5.0	1.2	4/19/2016 09:10	J
Indeno(1,2,3-cd)pyrene	**0.017**	**U**	**ug/L**	**1**	0.20	0.017	4/19/2016 09:10	J
Isophorone	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	4/19/2016 09:10	J
N-Nitrosodi-n-propylamine	**2.2**	**U**	**ug/L**	**1**	5.0	2.2	4/19/2016 09:10	J
N-Nitrosodimethylamine	**0.62**	**U**	**ug/L**	**1**	5.0	0.62	4/19/2016 09:10	J
N-Nitrosodiphenylamine	**0.59**	**U**	**ug/L**	**1**	5.0	0.59	4/19/2016 09:10	J
Naphthalene	**0.46**		**ug/L**	**1**	0.20	0.019	4/19/2016 09:10	J
Nitrobenzene	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	4/19/2016 09:10	J
Phenanthrene	**0.015**	**U**	**ug/L**	**1**	0.20	0.015	4/19/2016 09:10	J
Phenol	**0.54**	**U**	**ug/L**	**1**	5.0	0.54	4/19/2016 09:10	J
Pyrene	**0.025**	**U**	**ug/L**	**1**	0.20	0.025	4/19/2016 09:10	J
bis(2-Chloroethoxy)methane	**1.2**	**U**	**ug/L**	**1**	5.0	1.2	4/19/2016 09:10	J
bis(2-Chloroethyl)Ether	**1.5**	**U**	**ug/L**	**1**	5.0	1.5	4/19/2016 09:10	J
bis(2-Chloroisopropyl) Ether	**1.4**	**U**	**ug/L**	**1**	5.0	1.4	4/19/2016 09:10	J
bis(2-Ethylhexyl) phthalate	**2.0**	**U**	**ug/L**	**1**	5.0	2.0	4/19/2016 09:10	J
2-Fluorophenol (S)	**49**		**%**	**1**	10-90		4/19/2016 09:10	
Phenol-d6 (S)	**49**		**%**	**1**	10-67		4/19/2016 09:10	
Nitrobenzene-d5 (S)	**114**		**%**	**1**	32-147		4/19/2016 09:10	
2-Fluorobiphenyl (S)	**110**		**%**	**1**	34-140		4/19/2016 09:10	
2,4,6-Tribromophenol (S)	**102**		**%**	**1**	19-190		4/19/2016 09:10	
p-Terphenyl-d14 (S)	**105**		**%**	**1**	54-138		4/19/2016 09:10	
VOLATILES								
Analysis Desc: 524.2 Analysis, Water	Analytical Method: EPA 524.2							
1,1,1-Trichloroethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	4/24/2016 06:16	T

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,2-Trichloroethane	**0.39**	**U**	**ug/L**	**1**	1.0	0.39	4/24/2016 06:16	T
1,1-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	4/24/2016 06:16	T
1,2,4-Trichlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	4/24/2016 06:16	T
1,2-Dichlorobenzene	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	4/24/2016 06:16	T
1,2-Dichloroethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	4/24/2016 06:16	T
1,2-Dichloropropane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	4/24/2016 06:16	T
1,4-Dichlorobenzene	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	4/24/2016 06:16	T
Benzene	**4.1**		**ug/L**	**1**	1.0	0.15	4/24/2016 06:16	T
Bromodichloromethane	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	4/24/2016 06:16	T
Bromoform	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	4/24/2016 06:16	T
Carbon Tetrachloride	**0.27**	**U**	**ug/L**	**1**	1.0	0.27	4/24/2016 06:16	T
Chlorobenzene	**0.35**	**U**	**ug/L**	**1**	1.0	0.35	4/24/2016 06:16	T
Chloroform	**0.31**	**U**	**ug/L**	**1**	1.0	0.31	4/24/2016 06:16	T
Dibromochloromethane	**0.56**	**U**	**ug/L**	**1**	1.0	0.56	4/24/2016 06:16	T
Ethylbenzene	**0.68**	**I**	**ug/L**	**1**	1.0	0.20	4/24/2016 06:16	T
Methylene Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	4/24/2016 06:16	T
Styrene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	4/24/2016 06:16	T
Tetrachloroethylene (PCE)	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	4/24/2016 06:16	T
Toluene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	4/24/2016 06:16	T
Total Trihalomethanes	**0.31**	**U**	**ug/L**	**1**	1.0	0.31	4/24/2016 06:16	T
Trichloroethene	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	4/24/2016 06:16	T
Vinyl Chloride	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	4/24/2016 06:16	T
Xylene (Total)	**2.5**		**ug/L**	**1**	1.0	0.48	4/24/2016 06:16	T
cis-1,2-Dichloroethylene	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	4/24/2016 06:16	T
trans-1,2-Dichloroethylene	**0.34**	**U**	**ug/L**	**1**	1.0	0.34	4/24/2016 06:16	T
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-130		4/24/2016 06:16	
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-130		4/24/2016 06:16	
Toluene-d8 (S)	**95**		**%**	**1**	70-130		4/24/2016 06:16	
Toluene-d8 (S)	**95**		**%**	**1**	70-130		4/24/2016 06:16	
Bromofluorobenzene (S)	**114**		**%**	**1**	70-130		4/24/2016 06:16	
Bromofluorobenzene (S)	**114**		**%**	**1**	70-130		4/24/2016 06:16	
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B							
	Analytical Method: SW-846 8260B							
1,1,2,2-Tetrachloroethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	4/25/2016 18:58	T
1,1-Dichloroethane	**0.86**	**U**	**ug/L**	**1**	1.0	0.86	4/25/2016 18:58	T
2-Chloroethyl Vinyl Ether	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	4/25/2016 18:58	T
Acrolein (Propenal)	**3.1**	**U**	**ug/L**	**1**	5.0	3.1	4/25/2016 18:58	T
Acrylonitrile	**4.6**	**U**	**ug/L**	**1**	5.0	4.6	4/25/2016 18:58	T
Bromomethane	**12**		**ug/L**	**1**	1.0	0.81	4/25/2016 18:58	T

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	**0.38**	**U**	**ug/L**	**1**	1.0	0.38	4/25/2016 18:58	T
Chloromethane	**21**		**ug/L**	**1**	1.0	0.36	4/25/2016 18:58	T
trans-1,3-Dichloropropylene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	4/25/2016 18:58	T
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-130		4/25/2016 18:58	
Toluene-d8 (S)	**103**		**%**	**1**	70-130		4/25/2016 18:58	
Bromofluorobenzene (S)	**117**		**%**	**1**	70-130		4/25/2016 18:58	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**3600**		**mg/L**	**50**	250	50	4/28/2016 14:04	T
Chlorite	**160**	**U**	**ug/L**	**25**	250	160	4/21/2016 16:55	T
Fluoride	**0.10**	**U**	**mg/L**	**1**	0.50	0.10	4/25/2016 20:21	T
Sulfate	**120**	**I**	**mg/L**	**50**	250	50	4/28/2016 14:04	T
Analysis Desc: IC,E300.1,Water	Analytical Method: EPA 300.1							
Bromate	**25**	**U**	**ug/L**	**25**	250	25	4/21/2016 16:55	T
Analysis Desc: Color,SM2120B,Water	Analytical Method: SM 2120 B							
Color	**300**		**PCU**	**20**	100	55	4/16/2016 09:07	T
pH for Color Analysis	**9.0**		**SU**	**20**	5.0	0.10	4/16/2016 09:07	T
Analysis Desc: Odor,SM2150B,Water	Analytical Method: SM 2150 B							
Odor	**1.0**	**U**	**TON**	**1**	1.0	1.0	4/15/2016 15:30	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**7200**		**mg/L**	**1.25**	12	12	4/21/2016 09:18	T
Analysis Desc: Hexavalent Chromium,SM3500-CR D,Water	Analytical Method: SM 3500-CR D							
Hexavalent Chromium	**0.0025**	**U**	**mg/L**	**1**	0.040	0.0025	4/15/2016 15:12	T
Analysis Desc: Cyanide, SM4500-E, Water	Analytical Method: SM 4500-CN-E							
Cyanide	**0.21**		**mg/L**	**10**	0.10	0.048	4/18/2016 18:46	T
Analysis Desc: .PH,SM4500H+B, Water	Analytical Method: SM 4500H+B							
pH	**8.9**	**Q**	**SU**	**1**	0.1	0.1	4/21/2016 14:24	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Analytical Method: SM 4500NO3-F							

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201001** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **SELF Effluent** Date Collected: 04/15/16 11:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrate	**4.4**	**U**	**mg/L**	**25**	5.0	4.4	4/15/2016 16:58	T
Nitrite	**69**		**mg/L**	**25**	5.0	4.4	4/15/2016 16:58	T
Analysis Desc: SURFACT-MBAS,SM5540C,Aqueous	Analytical Method: SM 5540 C							
Surfactants	**0.37**		**mg/L**	**1**	0.20	0.040	4/16/2016 15:00	G

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Aluminum	**0.12**	**U**	**mg/L**	**1**	0.60	0.12	4/19/2016 16:29	T
Barium	**0.0019**	**I**	**mg/L**	**1**	0.0020	0.00049	4/19/2016 16:29	T
Beryllium	**0.00011**	**U**	**mg/L**	**1**	0.00060	0.00011	4/19/2016 16:29	T
Chromium	**0.00030**	**U**	**mg/L**	**1**	0.0020	0.00030	4/19/2016 16:29	T
Iron	**0.021**	**U**	**mg/L**	**1**	0.10	0.021	4/19/2016 16:29	T
Nickel	**0.0012**	**U**	**mg/L**	**1**	0.0090	0.0012	4/19/2016 16:29	T
Sodium	**0.056**	**I**	**mg/L**	**1**	0.20	0.042	4/19/2016 16:29	T
Analysis Desc: E200.8 Analysis,Waters	Preparation Method: EPA 200.8 Analytical Method: EPA 200.8							
Antimony	**0.000046**	**U**	**mg/L**	**1**	0.00070	0.000046	4/18/2016 20:17	J
Arsenic	**0.000077**	**U**	**mg/L**	**1**	0.0010	0.000077	4/18/2016 20:17	J
Cadmium	**0.000028**	**U**	**mg/L**	**1**	0.00050	0.000028	4/18/2016 20:17	J
Copper	**0.00016**	**I**	**mg/L**	**1**	0.00070	0.00011	4/18/2016 20:17	J
Lead	**0.00024**	**U**	**mg/L**	**1**	0.00070	0.00024	4/18/2016 20:17	J
Manganese	**0.00010**	**I**	**mg/L**	**1**	0.0010	0.000055	4/18/2016 20:17	J
Selenium	**0.00058**	**U**	**mg/L**	**1**	0.0050	0.00058	4/18/2016 20:17	J
Silver	**0.000084**	**I,V**	**mg/L**	**1**	0.00050	0.000027	4/18/2016 20:17	J
Thallium	**0.000057**	**U**	**mg/L**	**1**	0.00020	0.000057	4/18/2016 20:17	J
Uranium	**0.070**	**U**	**ug/L**	**1**	0.20	0.070	4/18/2016 20:17	J
Zinc	**0.0085**		**mg/L**	**1**	0.0050	0.00082	4/18/2016 20:17	J
Analysis Desc: EPA 245.1 Analysis,Water	Preparation Method: EPA 245.1 Analytical Method: EPA 245.1							
Mercury	**0.000084**	**U**	**mg/L**	**1**	0.00010	0.000084	4/19/2016 11:04	T
SEMIVOLATILES								
Analysis Desc: E504.1 Analysis, Water	Preparation Method: EPA 504.1 Analytical Method: EPA 504.1							
1,2-Dibromo-3-Chloropropane	**0.0097**	**U**	**ug/L**	**1**	0.020	0.0097	4/28/2016 07:48	T
Ethylene Dibromide (EDB)	**0.0069**	**U**	**ug/L**	**1**	0.020	0.0069	4/28/2016 07:48	T
Tetrachloro-m-xylene (S)	**86**		**%**	**1**	64-150		4/28/2016 07:48	
Analysis Desc: E508 Analysis, Water	Preparation Method: EPA 508 Analytical Method: EPA 508							

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chlordane (technical)	**0.053**	**U**	**ug/L**	**1**	0.20	0.053	4/23/2016 07:10	J
Endrin	**0.0069**	**U**	**ug/L**	**1**	0.020	0.0069	4/23/2016 07:10	J
Heptachlor	**0.0060**	**U**	**ug/L**	**1**	0.020	0.0060	4/23/2016 07:10	J
Heptachlor Epoxide	**0.0052**	**U**	**ug/L**	**1**	0.020	0.0052	4/23/2016 07:10	J
Hexachlorobenzene	**0.0063**	**U**	**ug/L**	**1**	0.020	0.0063	4/23/2016 07:10	J
Hexachlorocyclopentadiene	**0.012**	**U**	**ug/L**	**1**	0.020	0.012	4/23/2016 07:10	J
Methoxychlor	**0.0068**	**U**	**ug/L**	**1**	0.020	0.0068	4/23/2016 07:10	J
PCBs	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	4/23/2016 07:10	J
Toxaphene	**0.12**	**U**	**ug/L**	**1**	0.20	0.12	4/23/2016 07:10	J
gamma-BHC (Lindane)	**0.0071**	**U**	**ug/L**	**1**	0.020	0.0071	4/23/2016 07:10	J
Tetrachloro-m-xylene (S)	**70**		**%**	**1**	70-130		4/23/2016 07:10	
Decachlorobiphenyl (S)	**94**		**%**	**1**	70-130		4/23/2016 07:10	
Analysis Desc: E515.3 Analysis, Water	Preparation Method: EPA 515.3 Analytical Method: EPA 515.3							
2,4-D	**1.5**	**U**	**ug/L**	**1**	5.0	1.5	4/29/2016 02:57	J
Dalapon	**1.0**	**U**	**ug/L**	**1**	5.0	1.0	4/29/2016 02:57	J
Dinoseb	**0.86**	**U**	**ug/L**	**1**	2.5	0.86	4/29/2016 02:57	J
Pentachlorophenol	**0.069**	**U**	**ug/L**	**1**	0.50	0.069	4/29/2016 02:57	J
Picloram	**0.23**	**U**	**ug/L**	**1**	0.50	0.23	4/29/2016 02:57	J
Silvex (2,4,5-TP)	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	4/29/2016 02:57	J
2,4-Dichlorophenylacetic acid (S)	**86**		**%**	**1**	70-130		4/29/2016 02:57	
Analysis Desc: 524.2 THM Analysis, Water	Analytical Method: EPA 524.2							
Bromodichloromethane	**0.49**	**U**	**ug/L**	**1**	1.0	0.49	4/23/2016 13:21	T
Bromoform	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	4/23/2016 13:21	T
Chloroform	**0.31**	**U**	**ug/L**	**1**	1.0	0.31	4/23/2016 13:21	T
Dibromochloromethane	**0.56**	**U**	**ug/L**	**1**	1.0	0.56	4/23/2016 13:21	T
Total Trihalomethanes	**0.31**	**U**	**ug/L**	**1**	1.0	0.31	4/23/2016 13:21	T
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-130		4/23/2016 13:21	
Toluene-d8 (S)	**99**		**%**	**1**	70-130		4/23/2016 13:21	
Bromofluorobenzene (S)	**112**		**%**	**1**	70-130		4/23/2016 13:21	
Analysis Desc: E525.2 Analysis, Water	Preparation Method: EPA 525.2 Analytical Method: EPA 525.2							
Alachlor	**0.26**	**U**	**ug/L**	**1**	0.50	0.26	4/26/2016 18:10	J
Atrazine	**0.16**	**U**	**ug/L**	**1**	0.50	0.16	4/26/2016 18:10	J
Benzo[a]pyrene	**0.096**	**U**	**ug/L**	**1**	0.50	0.096	4/26/2016 18:10	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Di(2-ethylhexyl) adipate	**0.95**	**U**	**ug/L**	**1**	1.0	0.95	4/26/2016 18:10	J
Simazine	**0.19**	**U**	**ug/L**	**1**	0.50	0.19	4/26/2016 18:10	J
bis(2-Ethylhexyl) phthalate	**1.5**	**U**	**ug/L**	**1**	2.0	1.5	4/26/2016 18:10	J
p-Terphenyl-d14 (S)	**85**		**%**	**1**	70-130		4/26/2016 18:10	
Analysis Desc: E531.1 Analysis, Water	Analytical Method: EPA 531.1							
Carbofuran	**0.28**	**U**	**ug/L**	**1**	2.5	0.28	4/21/2016 18:03	J
Oxamyl	**0.57**	**U**	**ug/L**	**1**	2.5	0.57	4/21/2016 18:03	J
Analysis Desc: E547 Analysis, Water	Analytical Method: EPA 547							
Glyphosate	**6.5**	**U**	**ug/L**	**1**	50	6.5	4/19/2016 14:08	J
Analysis Desc: E548.1 Analysis, Water	Preparation Method: EPA 548.1 Analytical Method: EPA 548.1							
Endothall	**1.2**	**U**	**ug/L**	**1**	8.3	1.2	4/27/2016 16:53	J
Analysis Desc: E549.2 Analysis, Water	Preparation Method: EPA 549.2 Analytical Method: EPA 549.2							
Diquat	**7.6**	**U**	**ug/L**	**1**	71	7.6	4/20/2016 14:23	J
Analysis Desc: 552.2 Analysis,Water,HAA	Preparation Method: EPA 552.2 Analytical Method: EPA 552.2							
Bromoacetic Acid	**0.52**	**U**	**ug/L**	**1**	1.0	0.52	4/29/2016 22:18	J
Chloroacetic Acid	**0.89**	**U**	**ug/L**	**1**	1.0	0.89	4/29/2016 22:18	J
Dibromoacetic Acid	**0.73**	**U**	**ug/L**	**1**	1.0	0.73	4/29/2016 22:18	J
Dichloroacetic Acid	**0.89**	**U**	**ug/L**	**1**	1.0	0.89	4/29/2016 22:18	J
Total Haloacetic Acids (HAA5)	**0.52**	**U**	**ug/L**	**1**	1.0	0.52	4/29/2016 22:18	J
Trichloroacetic Acid	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	4/29/2016 22:18	J
2,3-Dibromopropionic Acid (S)	**100**		**%**	**1**	70-130		4/29/2016 22:18	
Analysis Desc: 8081A Pesticide Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: EPA 8081							
4,4`-DDD	**0.0017**	**U**	**ug/L**	**1**	0.021	0.0017	4/19/2016 21:43	J
4,4`-DDE	**0.0038**	**U**	**ug/L**	**1**	0.021	0.0038	4/19/2016 21:43	J
4,4`-DDT	**0.0022**	**U**	**ug/L**	**1**	0.021	0.0022	4/19/2016 21:43	J
Aldrin	**0.0020**	**U**	**ug/L**	**1**	0.021	0.0020	4/19/2016 21:43	J
Dieldrin	**0.0011**	**U**	**ug/L**	**1**	0.021	0.0011	4/19/2016 21:43	J
Endosulfan I	**0.0032**	**U**	**ug/L**	**1**	0.021	0.0032	4/19/2016 21:43	J
Endosulfan II	**0.0027**	**U**	**ug/L**	**1**	0.021	0.0027	4/19/2016 21:43	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Endosulfan Sulfate	**0.0033**	**U**	**ug/L**	**1**	0.021	0.0033	4/19/2016 21:43	J
Endrin Aldehyde	**0.0026**	**U**	**ug/L**	**1**	0.021	0.0026	4/19/2016 21:43	J
alpha-BHC	**0.0031**	**U**	**ug/L**	**1**	0.021	0.0031	4/19/2016 21:43	J
beta-BHC	**0.0019**	**U**	**ug/L**	**1**	0.021	0.0019	4/19/2016 21:43	J
delta-BHC	**0.00089**	**U**	**ug/L**	**1**	0.021	0.00089	4/19/2016 21:43	J
Tetrachloro-m-xylene (S)	**86**		**%**	**1**	44-124		4/19/2016 21:43	
Decachlorobiphenyl (S)	**82**		**%**	**1**	48-137		4/19/2016 21:43	
Analysis Desc: 8082A PCB Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8082A							
Aroclor 1016 (PCB-1016)	**0.067**	**U**	**ug/L**	**1**	0.21	0.067	4/18/2016 23:50	J
Aroclor 1221 (PCB-1221)	**0.11**	**U**	**ug/L**	**1**	0.21	0.11	4/18/2016 23:50	J
Aroclor 1232 (PCB-1232)	**0.10**	**U**	**ug/L**	**1**	0.21	0.10	4/18/2016 23:50	J
Aroclor 1242 (PCB-1242)	**0.099**	**U**	**ug/L**	**1**	0.21	0.099	4/18/2016 23:50	J
Aroclor 1248 (PCB-1248)	**0.069**	**U**	**ug/L**	**1**	0.21	0.069	4/18/2016 23:50	J
Aroclor 1254 (PCB-1254)	**0.053**	**U**	**ug/L**	**1**	0.21	0.053	4/18/2016 23:50	J
Aroclor 1260 (PCB-1260)	**0.082**	**U**	**ug/L**	**1**	0.21	0.082	4/18/2016 23:50	J
Tetrachloro-m-xylene (S)	**73**		**%**	**1**	61-119		4/18/2016 23:50	
Decachlorobiphenyl (S)	**74**		**%**	**1**	44-136		4/18/2016 23:50	
Analysis Desc: 8270C Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C							
1,2-Diphenylhydrazine	**0.97**	**U**	**ug/L**	**1**	5.1	0.97	4/19/2016 09:50	J
1,3-Dichlorobenzene	**1.0**	**U**	**ug/L**	**1**	5.1	1.0	4/19/2016 09:50	J
2,4,6-Trichlorophenol	**0.94**	**U**	**ug/L**	**1**	5.1	0.94	4/19/2016 09:50	J
2,4-Dichlorophenol	**0.91**	**U**	**ug/L**	**1**	5.1	0.91	4/19/2016 09:50	J
2,4-Dimethylphenol	**2.6**	**U**	**ug/L**	**1**	5.1	2.6	4/19/2016 09:50	J
2,4-Dinitrophenol	**0.63**	**U**	**ug/L**	**1**	10	0.63	4/19/2016 09:50	J
2,4-Dinitrotoluene (2,4-DNT)	**0.61**	**U**	**ug/L**	**1**	5.1	0.61	4/19/2016 09:50	J
2,6-Dinitrotoluene (2,6-DNT)	**1.1**	**U**	**ug/L**	**1**	5.1	1.1	4/19/2016 09:50	J
2-Chloronaphthalene	**0.98**	**U**	**ug/L**	**1**	5.1	0.98	4/19/2016 09:50	J
2-Chlorophenol	**1.2**	**U**	**ug/L**	**1**	5.1	1.2	4/19/2016 09:50	J
2-Methyl-4,6-dinitrophenol	**0.78**	**U**	**ug/L**	**1**	5.1	0.78	4/19/2016 09:50	J
2-Nitrophenol	**0.64**	**U**	**ug/L**	**1**	5.1	0.64	4/19/2016 09:50	J
3,3`-Dichlorobenzidine	**1.3**	**U**	**ug/L**	**1**	5.1	1.3	4/19/2016 09:50	J
4-Bromophenyl Phenyl Ether	**1.1**	**U**	**ug/L**	**1**	5.1	1.1	4/19/2016 09:50	J
4-Chloro-3-methylphenol	**0.63**	**U**	**ug/L**	**1**	5.1	0.63	4/19/2016 09:50	J
4-Chlorophenyl Phenyl Ether	**0.69**	**U**	**ug/L**	**1**	5.1	0.69	4/19/2016 09:50	J
4-Nitrophenol	**0.63**	**U**	**ug/L**	**1**	5.1	0.63	4/19/2016 09:50	J
Acenaphthene	**0.033**	**U**	**ug/L**	**1**	0.20	0.033	4/19/2016 09:50	J

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acenaphthylene	**0.024**	**U**	**ug/L**	**1**	0.20	0.024	4/19/2016 09:50	J
Anthracene	**0.0091**	**U**	**ug/L**	**1**	0.20	0.0091	4/19/2016 09:50	J
Benzidine	**0.75**	**U**	**ug/L**	**1**	5.1	0.75	4/19/2016 09:50	J
Benzo[a]anthracene	**0.010**	**U**	**ug/L**	**1**	0.20	0.010	4/19/2016 09:50	J
Benzo[b]fluoranthene	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	4/19/2016 09:50	J
Benzo[g,h,i]perylene	**0.016**	**U**	**ug/L**	**1**	0.20	0.016	4/19/2016 09:50	J
Benzo[k]fluoranthene	**0.020**	**U**	**ug/L**	**1**	0.20	0.020	4/19/2016 09:50	J
Butyl benzyl phthalate	**1.1**	**U**	**ug/L**	**1**	5.1	1.1	4/19/2016 09:50	J
Chrysene	**0.012**	**U**	**ug/L**	**1**	0.20	0.012	4/19/2016 09:50	J
Di-n-Butyl Phthalate	**0.89**	**U**	**ug/L**	**1**	5.1	0.89	4/19/2016 09:50	J
Di-n-octyl Phthalate	**1.2**	**U**	**ug/L**	**1**	5.1	1.2	4/19/2016 09:50	J
Dibenzo[a,h]anthracene	**0.019**	**U**	**ug/L**	**1**	0.20	0.019	4/19/2016 09:50	J
Diethyl phthalate	**0.99**	**U**	**ug/L**	**1**	5.1	0.99	4/19/2016 09:50	J
Dimethyl phthalate	**10**	**U**	**ug/L**	**1**	10	10	4/19/2016 09:50	J
Fluoranthene	**0.014**	**U**	**ug/L**	**1**	0.20	0.014	4/19/2016 09:50	J
Fluorene	**0.016**	**U**	**ug/L**	**1**	0.20	0.016	4/19/2016 09:50	J
Hexachlorobutadiene	**0.88**	**U**	**ug/L**	**1**	5.1	0.88	4/19/2016 09:50	J
Hexachloroethane	**1.3**	**U**	**ug/L**	**1**	5.1	1.3	4/19/2016 09:50	J
Indeno(1,2,3-cd)pyrene	**0.017**	**U**	**ug/L**	**1**	0.20	0.017	4/19/2016 09:50	J
Isophorone	**1.1**	**U**	**ug/L**	**1**	5.1	1.1	4/19/2016 09:50	J
N-Nitrosodi-n-propylamine	**2.3**	**U**	**ug/L**	**1**	5.1	2.3	4/19/2016 09:50	J
N-Nitrosodimethylamine	**0.63**	**U**	**ug/L**	**1**	5.1	0.63	4/19/2016 09:50	J
N-Nitrosodiphenylamine	**0.59**	**U**	**ug/L**	**1**	5.1	0.59	4/19/2016 09:50	J
Naphthalene	**0.019**	**U**	**ug/L**	**1**	0.20	0.019	4/19/2016 09:50	J
Nitrobenzene	**1.2**	**U**	**ug/L**	**1**	5.1	1.2	4/19/2016 09:50	J
Phenanthrene	**0.015**	**U**	**ug/L**	**1**	0.20	0.015	4/19/2016 09:50	J
Phenol	**0.55**	**U**	**ug/L**	**1**	5.1	0.55	4/19/2016 09:50	J
Pyrene	**0.026**	**U**	**ug/L**	**1**	0.20	0.026	4/19/2016 09:50	J
bis(2-Chloroethoxy)methane	**1.2**	**U**	**ug/L**	**1**	5.1	1.2	4/19/2016 09:50	J
bis(2-Chloroethyl)Ether	**1.5**	**U**	**ug/L**	**1**	5.1	1.5	4/19/2016 09:50	J
bis(2-Chloroisopropyl) Ether	**1.4**	**U**	**ug/L**	**1**	5.1	1.4	4/19/2016 09:50	J
bis(2-Ethylhexyl) phthalate	**2.0**	**U**	**ug/L**	**1**	5.1	2.0	4/19/2016 09:50	J
2-Fluorophenol (S)	**59**		**%**	**1**	10-90		4/19/2016 09:50	
Phenol-d6 (S)	**43**		**%**	**1**	10-67		4/19/2016 09:50	
Nitrobenzene-d5 (S)	**92**		**%**	**1**	32-147		4/19/2016 09:50	
2-Fluorobiphenyl (S)	**85**		**%**	**1**	34-140		4/19/2016 09:50	
2,4,6-Tribromophenol (S)	**102**		**%**	**1**	19-190		4/19/2016 09:50	
p-Terphenyl-d14 (S)	**106**		**%**	**1**	54-138		4/19/2016 09:50	

VOLATILES

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 524.2 Analysis, Water	Analytical Method: EPA 524.2							
1,1,1-Trichloroethane	**0.32**	U	ug/L	1	1.0	0.32	4/23/2016 13:21	T
1,1,2-Trichloroethane	**0.39**	U	ug/L	1	1.0	0.39	4/23/2016 13:21	T
1,1-Dichloroethylene	**0.24**	U	ug/L	1	1.0	0.24	4/23/2016 13:21	T
1,2,4-Trichlorobenzene	**0.21**	U	ug/L	1	1.0	0.21	4/23/2016 13:21	T
1,2-Dichlorobenzene	**0.26**	U	ug/L	1	1.0	0.26	4/23/2016 13:21	T
1,2-Dichloroethane	**0.21**	U	ug/L	1	1.0	0.21	4/23/2016 13:21	T
1,2-Dichloropropane	**0.46**	U	ug/L	1	1.0	0.46	4/23/2016 13:21	T
1,4-Dichlorobenzene	**0.19**	U	ug/L	1	1.0	0.19	4/23/2016 13:21	T
Benzene	**0.15**	U	ug/L	1	1.0	0.15	4/23/2016 13:21	T
Carbon Tetrachloride	**0.27**	U	ug/L	1	1.0	0.27	4/23/2016 13:21	T
Chlorobenzene	**0.35**	U	ug/L	1	1.0	0.35	4/23/2016 13:21	T
Ethylbenzene	**0.20**	U	ug/L	1	1.0	0.20	4/23/2016 13:21	T
Methylene Chloride	**0.20**	U	ug/L	1	1.0	0.20	4/23/2016 13:21	T
Styrene	**0.21**	U	ug/L	1	1.0	0.21	4/23/2016 13:21	T
Tetrachloroethylene (PCE)	**3.0**		ug/L	1	1.0	0.25	4/23/2016 13:21	T
Toluene	**0.20**	U	ug/L	1	1.0	0.20	4/23/2016 13:21	T
Trichloroethene	**0.25**	U	ug/L	1	1.0	0.25	4/23/2016 13:21	T
Vinyl Chloride	**0.32**	U	ug/L	1	1.0	0.32	4/23/2016 13:21	T
Xylene (Total)	**0.48**	U	ug/L	1	1.0	0.48	4/23/2016 13:21	T
cis-1,2-Dichloroethylene	**0.45**	U	ug/L	1	1.0	0.45	4/23/2016 13:21	T
trans-1,2-Dichloroethylene	**0.34**	U	ug/L	1	1.0	0.34	4/23/2016 13:21	T
1,2-Dichloroethane-d4 (S)	**111**		%	1	70-130		4/23/2016 13:21	
Toluene-d8 (S)	**99**		%	1	70-130		4/23/2016 13:21	
Bromofluorobenzene (S)	**112**		%	1	70-130		4/23/2016 13:21	
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,2,2-Tetrachloroethane	**0.17**	U	ug/L	1	1.0	0.17	4/25/2016 18:12	T
1,1-Dichloroethane	**0.86**	U	ug/L	1	1.0	0.86	4/25/2016 18:12	T
2-Chloroethyl Vinyl Ether	**0.38**	U	ug/L	1	1.0	0.38	4/25/2016 18:12	T
Acrolein (Propenal)	**3.1**	U	ug/L	1	5.0	3.1	4/25/2016 18:12	T
Acrylonitrile	**4.6**	U	ug/L	1	5.0	4.6	4/25/2016 18:12	T
Bromomethane	**0.81**	U	ug/L	1	1.0	0.81	4/25/2016 18:12	T
Chloroethane	**0.38**	U	ug/L	1	1.0	0.38	4/25/2016 18:12	T
Chloromethane	**0.36**	U	ug/L	1	1.0	0.36	4/25/2016 18:12	T
trans-1,3-Dichloropropylene	**0.22**	U	ug/L	1	1.0	0.22	4/25/2016 18:12	T
1,2-Dichloroethane-d4 (S)	**106**		%	1	70-130		4/25/2016 18:12	
Toluene-d8 (S)	**100**		%	1	70-130		4/25/2016 18:12	

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**116**		**%**	**1**	70-130		**4/25/2016 18:12**	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1.0**	**U**	**mg/L**	**1**	5.0	1.0	**4/27/2016 16:02**	T
Chlorite	**6.5**	**U**	**ug/L**	**1**	10	6.5	**4/21/2016 14:12**	T
Fluoride	**0.10**	**U**	**mg/L**	**1**	0.50	0.10	**4/27/2016 16:02**	T
Sulfate	**1.0**	**U**	**mg/L**	**1**	5.0	1.0	**4/27/2016 16:02**	T
Analysis Desc: IC,E300.1,Water	Analytical Method: EPA 300.1							
Bromate	**1.0**	**U**	**ug/L**	**1**	10	1.0	**4/21/2016 14:12**	T
Analysis Desc: Color,SM2120B,Water	Analytical Method: SM 2120 B							
Color	**2.7**	**U**	**PCU**	**1**	5.0	2.7	4/16/2016 09:08	T
pH for Color Analysis	**7.0**		**SU**	**1**	5.0	0.10	4/16/2016 09:08	T
Analysis Desc: Odor,SM2150B,Water	Analytical Method: SM 2150 B							
Odor	**1.0**	**U**	**TON**	**1**	1.0	1.0	4/15/2016 15:30	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**12**	**U**	**mg/L**	**1.25**	12	12	**4/21/2016 09:18**	T
Analysis Desc: Hexavalent Chromium,SM3500-CR D,Water	Analytical Method: SM 3500-CR D							
Hexavalent Chromium	**0.0025**	**U**	**mg/L**	**1**	0.040	0.0025	4/15/2016 15:12	T
Analysis Desc: Cyanide, SM4500-E, Water	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0048**	**U**	**mg/L**	**1**	0.010	0.0048	4/18/2016 18:38	T
Analysis Desc: .PH,SM4500H+B, Water	Analytical Method: SM 4500H+B							
pH	**5.8**	**Q**	**SU**	**1**	0.1	0.1	4/21/2016 14:26	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Analytical Method: SM 4500NO3-F							
Nitrate	**0.18**	**U**	**mg/L**	**1**	0.20	0.18	4/15/2016 16:59	T
Nitrite	**0.18**	**U**	**mg/L**	**1**	0.20	0.18	4/15/2016 16:59	T
Analysis Desc: SURFACT-MBAS,SM5540C,Aqueous	Analytical Method: SM 5540 C							

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ANALYTICAL RESULTS

Workorder: T1605201 SELF Plant Effluent

Lab ID: **T1605201002** Date Received: 04/15/16 13:10 Matrix: Water

Sample ID: **Field Blank** Date Collected: 04/15/16 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Surfactants	**0.057**	**I**	**mg/L**	1	0.20	0.040	4/16/2016 13:45	G

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1605201 SELF Plant Effluent

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Q	Missed Hold Time
V	Method Blank Contamination
[1]	Surrogates diluted out.
J4	Estimated Result

LAB QUALIFIERS

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

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: WCAt/2446 Analysis Method: SM 3500-CR D
QC Batch Method: SM 3500-CR D Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023857

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Hexavalent Chromium	mg/L	0.0025	0.0025	U

LABORATORY CONTROL SAMPLE: 2023859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Hexavalent Chromium	mg/L	0.5	0.52	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020226 2020227 Original: T1604641012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Hexavalent Chromium	mg/L	0.431	0.5	0.92	0.92	98	99	85-115	0	20	

QC Batch: DGMj/1389 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Prepared: 04/18/2016 09:15
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023145

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Manganese	mg/L	0.000055	0.000055	U
Copper	mg/L	0.00011	0.00011	U
Zinc	mg/L	0.00082	0.00082	U
Arsenic	mg/L	0.000077	0.000077	U
Selenium	mg/L	0.00058	0.00058	U
Silver	mg/L	0.000030	0.000027	I
Cadmium	mg/L	0.000028	0.000028	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2023145

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	mg/L	0.000046	0.000046	U
Thallium	mg/L	0.000057	0.000057	U
Lead	mg/L	0.00024	0.00024	U
Uranium	ug/L	0.070	0.070	U

LABORATORY CONTROL SAMPLE & LCSD: 2023146 2023147

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Manganese	mg/L	0.1	0.089	0.091	89	91	85-115	2	20	
Copper	mg/L	0.1	0.088	0.089	88	89	85-115	2	20	
Zinc	mg/L	0.1	0.096	0.097	96	97	85-115	1	20	
Arsenic	mg/L	0.1	0.092	0.094	92	94	85-115	2	20	
Selenium	mg/L	0.1	0.10	0.11	105	106	85-115	1	20	
Silver	mg/L	0.1	0.090	0.088	90	88	85-115	1	20	
Cadmium	mg/L	0.1	0.093	0.091	93	91	85-115	2	20	
Antimony	mg/L	0.1	0.094	0.091	94	91	85-115	3	20	
Thallium	mg/L	0.1	0.091	0.088	91	88	85-115	3	20	
Lead	mg/L	0.1	0.091	0.087	91	87	85-115	4	20	
Uranium	ug/L	100	94	89	94	89	85-115	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023148 2023149 Original: J1603649001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											J4
Manganese	mg/L	0	0.1	0.23	0.22	226	220	70-130	3	20	
Copper	mg/L	0	0.1	0.065	0.064	65	64	70-130	1	20	
Zinc	mg/L	0	0.1	0.083	0.082	83	82	70-130	2	20	
Arsenic	mg/L	0	0.1	0.089	0.087	89	87	70-130	2	20	
Selenium	mg/L	0	0.1	0.012	0.014	12	14	70-130	13	20	
Silver	mg/L	0	0.1	0.063	0.061	63	61	70-130	3	20	
Cadmium	mg/L	0	0.1	0.085	0.083	85	83	70-130	2	20	
Antimony	mg/L	0	0.1	0.091	0.090	91	90	70-130	2	20	
Thallium	mg/L	0	0.1	0.099	0.096	99	96	70-130	2	20	
Lead	mg/L	0.00017	0.1	0.097	0.095	97	95	70-130	2	20	
Uranium	ug/L	0	100	110	110	110	108	70-130	2	20	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023150 2023151 Original: J1603662001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Manganese	mg/L	0	0.1	0.091	0.094	91	94	70-130	3	20	
Copper	mg/L	0	0.1	0.081	0.084	81	84	70-130	4	20	
Zinc	mg/L	0	0.1	0.098	0.10	98	101	70-130	3	20	
Arsenic	mg/L	0.0015	0.1	0.091	0.094	90	93	70-130	3	20	
Selenium	mg/L	0	0.1	0.10	0.10	102	100	70-130	2	20	
Silver	mg/L	0	0.1	0.079	0.087	79	87	70-130	9	20	
Cadmium	mg/L	2.6e-005	0.1	0.091	0.093	91	93	70-130	2	20	
Antimony	mg/L	0	0.1	0.097	0.10	97	100	70-130	3	20	
Thallium	mg/L	0	0.1	0.093	0.095	93	95	70-130	2	20	
Lead	mg/L	0.00026	0.1	0.094	0.095	93	95	70-130	2	20	
Uranium	ug/L	0	100	99	100	99	101	70-130	2	20	

QC Batch: EXTj/1535 Analysis Method: SW-846 8082A

QC Batch Method: SW-846 3510C Prepared: 04/18/2016 12:00

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023760

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Aroclor 1016 (PCB-1016)	ug/L	0.065	0.065	U
Aroclor 1221 (PCB-1221)	ug/L	0.11	0.11	U
Aroclor 1232 (PCB-1232)	ug/L	0.097	0.097	U
Aroclor 1242 (PCB-1242)	ug/L	0.096	0.096	U
Aroclor 1248 (PCB-1248)	ug/L	0.067	0.067	U
Aroclor 1254 (PCB-1254)	ug/L	0.051	0.051	U
Aroclor 1260 (PCB-1260)	ug/L	0.080	0.080	U
Tetrachloro-m-xylene (S)	%	92	61-119	
Decachlorobiphenyl (S)	%	93	44-136	

LABORATORY CONTROL SAMPLE: 2023761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Aroclor 1016 (PCB-1016)	ug/L	1	0.90	90	38-156	
Aroclor 1221 (PCB-1221)	ug/L		0.11			

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2023761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aroclor 1232 (PCB-1232)	ug/L		0.097			
Aroclor 1242 (PCB-1242)	ug/L		0.096			
Aroclor 1248 (PCB-1248)	ug/L		0.067			
Aroclor 1254 (PCB-1254)	ug/L		0.051			
Aroclor 1260 (PCB-1260)	ug/L	1	0.81	81	45-134	
Tetrachloro-m-xylene (S)	%			88	61-119	
Decachlorobiphenyl (S)	%			86	44-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2025564 2025565 Original: J1603762001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											J4
Aroclor 1016 (PCB-1016)	ug/L	0	100	160	210	160	209	38-156	27	30	
Aroclor 1221 (PCB-1221)	ug/L			44	44U				0	30	
Aroclor 1232 (PCB-1232)	ug/L			39	39U				0	30	
Aroclor 1242 (PCB-1242)	ug/L			38	38U				0	30	
Aroclor 1248 (PCB-1248)	ug/L			27	27U				0	30	
Aroclor 1254 (PCB-1254)	ug/L			20	20U				0	30	
Aroclor 1260 (PCB-1260)	ug/L	0	100	52	40I	52	40	45-134	26	30	
Tetrachloro-m-xylene (S)	%	25				30	30	61-119	0		J4
Decachlorobiphenyl (S)	%	10				18	16	44-136	17		J4

QC Batch: EXTj/1536 Analysis Method: EPA 8081

QC Batch Method: SW-846 3510C Prepared: 04/18/2016 12:00

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023763

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
alpha-BHC	ug/L	0.0030	0.0030	U
beta-BHC	ug/L	0.0019	0.0019	U
delta-BHC	ug/L	0.00086	0.00086	U
Aldrin	ug/L	0.0019	0.0019	U
Endosulfan I	ug/L	0.0031	0.0031	U
4,4`-DDE	ug/L	0.0037	0.0037	U
Dieldrin	ug/L	0.0011	0.0011	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2023763

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
4,4`-DDD	ug/L	0.0016	0.0016	U
Endosulfan II	ug/L	0.0026	0.0026	U
Endrin Aldehyde	ug/L	0.0025	0.0025	U
4,4`-DDT	ug/L	0.0021	0.0021	U
Endosulfan Sulfate	ug/L	0.0032	0.0032	U
Tetrachloro-m-xylene (S)	%	93	44-124	
Decachlorobiphenyl (S)	%	97	48-137	

LABORATORY CONTROL SAMPLE: 2023764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
alpha-BHC	ug/L	0.1	0.093	93	54-138	
beta-BHC	ug/L	0.1	0.099	99	56-136	
delta-BHC	ug/L	0.1	0.096	96	52-142	
Aldrin	ug/L	0.1	0.089	89	45-134	
Endosulfan I	ug/L	0.1	0.092	92	62-126	
4,4`-DDE	ug/L	0.1	0.089	89	57-135	
Dieldrin	ug/L	0.1	0.094	94	60-136	
4,4`-DDD	ug/L	0.1	0.093	93	56-143	
Endosulfan II	ug/L	0.1	0.091	91	52-135	
Endrin Aldehyde	ug/L	0.1	0.093	93	51-132	
4,4`-DDT	ug/L	0.1	0.090	90	51-143	
Endosulfan Sulfate	ug/L	0.1	0.092	92	62-133	
Tetrachloro-m-xylene (S)	%			94	44-124	
Decachlorobiphenyl (S)	%			94	48-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024428 2024429 Original: S1600495001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											J4
alpha-BHC	ug/L	0.68	10	5.5	5.3I	48	46	54-138	4	30	
beta-BHC	ug/L	0.64	10	4.4	3.7I	38	30	56-136	18	30	
delta-BHC	ug/L	0	10	12	11	115	108	52-142	6	30	
Aldrin	ug/L	31	10	38	33	73	25	45-134	13	30	
Endosulfan I	ug/L	0	10	9.1	9.0	91	90	62-126	1	30	
4,4`-DDE	ug/L	0	10	1.5	1.5U	15	14	57-135	3	30	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024428 2024429 Original: S1600495001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Dieldrin	ug/L	0	10	3.2	3.0I	32	30	60-136	5	30	
4,4`-DDD	ug/L	0	10	2.5	2.3I	25	23	56-143	7	30	
Endosulfan II	ug/L	0	10	2.6	2.4I	26	24	52-135	8	30	
Endrin Aldehyde	ug/L	14	10	21	25	67	107	51-132	17	30	
4,4`-DDT	ug/L	0	10	0.96	0.86U	10	8	51-143	23	30	
Endosulfan Sulfate	ug/L	0	10	3.3	3.1I	33	31	62-133	8	30	
Tetrachloro-m-xylene (S)	%	25				31	31	44-124	3		J4
Decachlorobiphenyl (S)	%	10				13	10	48-137	25		J4

QC Batch: EXTj/1536 Analysis Method: EPA 8081

QC Batch Method: SW-846 3510C Prepared: 04/19/2016 12:00

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023763

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
alpha-BHC	ug/L	0.0030	0.0030	U
beta-BHC	ug/L	0.0019	0.0019	U
delta-BHC	ug/L	0.00086	0.00086	U
Aldrin	ug/L	0.0019	0.0019	U
Endosulfan I	ug/L	0.0031	0.0031	U
4,4`-DDE	ug/L	0.0037	0.0037	U
Dieldrin	ug/L	0.0011	0.0011	U
4,4`-DDD	ug/L	0.0016	0.0016	U
Endosulfan II	ug/L	0.0026	0.0026	U
Endrin Aldehyde	ug/L	0.0025	0.0025	U
4,4`-DDT	ug/L	0.0021	0.0021	U
Endosulfan Sulfate	ug/L	0.0032	0.0032	U
Tetrachloro-m-xylene (S)	%	93	44-124	
Decachlorobiphenyl (S)	%	97	48-137	

LABORATORY CONTROL SAMPLE: 2023764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
alpha-BHC	ug/L	0.1	0.093	93	54-138	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2023764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
beta-BHC	ug/L	0.1	0.099	99	56-136	
delta-BHC	ug/L	0.1	0.096	96	52-142	
Aldrin	ug/L	0.1	0.089	89	45-134	
Endosulfan I	ug/L	0.1	0.092	92	62-126	
4,4`-DDE	ug/L	0.1	0.089	89	57-135	
Dieldrin	ug/L	0.1	0.094	94	60-136	
4,4`-DDD	ug/L	0.1	0.093	93	56-143	
Endosulfan II	ug/L	0.1	0.091	91	52-135	
Endrin Aldehyde	ug/L	0.1	0.093	93	51-132	
4,4`-DDT	ug/L	0.1	0.090	90	51-143	
Endosulfan Sulfate	ug/L	0.1	0.092	92	62-133	
Tetrachloro-m-xylene (S)	%			94	44-124	
Decachlorobiphenyl (S)	%			94	48-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024428 2024429 Original: S1600495001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											J4
alpha-BHC	ug/L	0.68	10	5.5	5.3I	48	46	54-138	4	30	
beta-BHC	ug/L	0.64	10	4.4	3.7I	38	30	56-136	18	30	
delta-BHC	ug/L	0	10	12	11	115	108	52-142	6	30	
Aldrin	ug/L	31	10	38	33	73	25	45-134	13	30	
Endosulfan I	ug/L	0	10	9.1	9.0	91	90	62-126	1	30	
4,4`-DDE	ug/L	0	10	1.5	1.5U	15	14	57-135	3	30	
Dieldrin	ug/L	0	10	3.2	3.0I	32	30	60-136	5	30	
4,4`-DDD	ug/L	0	10	2.5	2.3I	25	23	56-143	7	30	
Endosulfan II	ug/L	0	10	2.6	2.4I	26	24	52-135	8	30	
Endrin Aldehyde	ug/L	14	10	21	25	67	107	51-132	17	30	
4,4`-DDT	ug/L	0	10	0.96	0.86U	10	8	51-143	23	30	
Endosulfan Sulfate	ug/L	0	10	3.3	3.1I	33	31	62-133	8	30	
Tetrachloro-m-xylene (S)	%	25				31	31	44-124	3		J4
Decachlorobiphenyl (S)	%	10				13	10	48-137	25		J4

QC Batch: DGMt/1228 Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7 Prepared: 04/18/2016 14:08

Associated Lab Samples: T1605201002

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2023788

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Aluminum	mg/L	0.12	0.12	U
Barium	mg/L	0.00049	0.00049	U
Beryllium	mg/L	0.00011	0.00011	U
Chromium	mg/L	0.00030	0.00030	U
Iron	mg/L	0.021	0.021	U
Sodium	mg/L	0.042	0.042	U
Nickel	mg/L	0.0012	0.0012	U

LABORATORY CONTROL SAMPLE: 2023789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Aluminum	mg/L	25	25	99	85-115	
Barium	mg/L	0.4	0.37	92	85-115	
Beryllium	mg/L	0.4	0.38	94	85-115	
Chromium	mg/L	0.4	0.36	91	85-115	
Iron	mg/L	25	26	101	85-115	
Sodium	mg/L	50	50	98	85-115	
Nickel	mg/L	0.4	0.36	89	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023790 2023791 Original: T1605164002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											J4
Aluminum	mg/L	0.036	25	23	23	90	92	70-130	3	20	
Barium	mg/L	0.0067	0.4	0.34	0.35	84	85	70-130	1	20	
Beryllium	mg/L	9e-005	0.4	0.35	0.36	87	89	70-130	3	20	
Chromium	mg/L	0.0011	0.4	0.33	0.34	83	84	70-130	1	20	
Iron	mg/L	0.29	25	23	23	89	91	70-130	2	20	
Sodium	mg/L	1200	50	1200	1300	39	75	70-130	1	20	
Nickel	mg/L	-0.00041	0.4	0.35	0.36	88	90	70-130	2	20	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023792 2023793 Original: T1605164003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											J4
Aluminum	mg/L	0.047	25	24	24	96	95	70-130	0	20	
Barium	mg/L	0.014	0.4	0.35	0.35	85	85	70-130	0	20	
Beryllium	mg/L	0.0001	0.4	0.36	0.36	90	90	70-130	1	20	
Chromium	mg/L	0.004	0.4	0.34	0.34	84	83	70-130	1	20	
Iron	mg/L	0.67	25	25	24	95	92	70-130	3	20	
Sodium	mg/L	770	50	800	800	49	55	70-130	0	20	
Nickel	mg/L	0.012	0.4	0.37	0.37	90	89	70-130	1	20	

QC Batch: WCAt/2515 Analysis Method: SM 4500NO3-F

QC Batch Method: SM 4500NO3-F Prepared:

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023844

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate	mg/L	0.18	0.18	U
Nitrite	mg/L	0.18	0.18	U

LABORATORY CONTROL SAMPLE: 2023845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Nitrate	mg/L	1	1.0	104	90-110	
Nitrite	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023846 2023847 Original: T1605204001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Nitrate	mg/L	15	1	16	16	94	91	90-110	0	10	
Nitrite	mg/L	-0.24	1	1.0	1.1	100	106	90-110	6	10	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: EXTj/1541
QC Batch Method: SW-846 3510C
Associated Lab Samples: T1605201001, T1605201002

Analysis Method: SW-846 8270C
Prepared: 04/18/2016 17:30

METHOD BLANK: 2023953

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Phenol	ug/L	0.54	0.54	U
2-Chlorophenol	ug/L	1.2	1.2	U
2-Nitrophenol	ug/L	0.63	0.63	U
2,4-Dimethylphenol	ug/L	2.6	2.6	U
2,4-Dichlorophenol	ug/L	0.90	0.90	U
4-Chloro-3-methylphenol	ug/L	0.62	0.62	U
2,4,6-Trichlorophenol	ug/L	0.93	0.93	U
2,4-Dinitrophenol	ug/L	0.62	0.62	U
4-Nitrophenol	ug/L	0.62	0.62	U
2-Methyl-4,6-dinitrophenol	ug/L	0.77	0.77	U
N-Nitrosodimethylamine	ug/L	0.62	0.62	U
bis(2-Chloroethyl)Ether	ug/L	1.5	1.5	U
1,3-Dichlorobenzene	ug/L	1.0	1.0	U
bis(2-Chloroisopropyl) Ether	ug/L	1.4	1.4	U
N-Nitrosodi-n-propylamine	ug/L	2.2	2.2	U
Hexachloroethane	ug/L	1.2	1.2	U
Nitrobenzene	ug/L	1.1	1.1	U
Isophorone	ug/L	1.1	1.1	U
bis(2-Chloroethoxy)methane	ug/L	1.2	1.2	U
Naphthalene	ug/L	0.019	0.019	U
Hexachlorobutadiene	ug/L	0.87	0.87	U
2-Chloronaphthalene	ug/L	0.97	0.97	U
Dimethyl phthalate	ug/L	9.9	9.9	U
2,6-Dinitrotoluene (2,6-DNT)	ug/L	1.1	1.1	U
Acenaphthylene	ug/L	0.024	0.024	U
Acenaphthene	ug/L	0.033	0.033	U
2,4-Dinitrotoluene (2,4-DNT)	ug/L	0.60	0.60	U
Diethyl phthalate	ug/L	0.98	0.98	U
Fluorene	ug/L	0.016	0.016	U
4-Chlorophenyl Phenyl Ether	ug/L	0.69	0.69	U
1,2-Diphenylhydrazine	ug/L	0.96	0.96	U
4-Bromophenyl Phenyl Ether	ug/L	1.1	1.1	U
Phenanthrene	ug/L	0.015	0.015	U
Anthracene	ug/L	0.0090	0.0090	U
Di-n-Butyl Phthalate	ug/L	0.88	0.88	U
Fluoranthene	ug/L	0.014	0.014	U
Benzidine	ug/L	0.74	0.74	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2023953

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Pyrene	ug/L	0.025	0.025	U
Butyl benzyl phthalate	ug/L	1.1	1.1	U
Benzo[a]anthracene	ug/L	0.0099	0.0099	U
3,3`-Dichlorobenzidine	ug/L	1.3	1.3	U
Chrysene	ug/L	0.012	0.012	U
bis(2-Ethylhexyl) phthalate	ug/L	2.0	2.0	U
Di-n-octyl Phthalate	ug/L	1.2	1.2	U
Benzo[b]fluoranthene	ug/L	0.020	0.020	U
Benzo[k]fluoranthene	ug/L	0.020	0.020	U
Indeno(1,2,3-cd)pyrene	ug/L	0.017	0.017	U
Dibenzo[a,h]anthracene	ug/L	0.019	0.019	U
Benzo[g,h,i]perylene	ug/L	0.016	0.016	U
N-Nitrosodiphenylamine	ug/L	0.59	0.59	U
2-Fluorophenol (S)	%	97	10-90	
Phenol-d6 (S)	%	71	10-67	
Nitrobenzene-d5 (S)	%	126	32-147	
2-Fluorobiphenyl (S)	%	123	34-140	
2,4,6-Tribromophenol (S)	%	148	19-190	
p-Terphenyl-d14 (S)	%	124	54-138	

LABORATORY CONTROL SAMPLE: 2023954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Phenol	ug/L	40	20	51	19-106	
2,4-Dichlorophenol	ug/L	40	40	100	47-121	
4-Chloro-3-methylphenol	ug/L	40	44	109	52-119	
2,4,6-Trichlorophenol	ug/L	40	41	103	50-125	
Hexachloroethane	ug/L	40	36	90	21-115	
Nitrobenzene	ug/L	40	41	101	45-121	
Hexachlorobutadiene	ug/L	40	39	97	22-124	
Acenaphthene	ug/L	40	40	100	47-122	
2,4-Dinitrotoluene (2,4-DNT)	ug/L	40	44	110	57-128	
Fluorene	ug/L	40	41	103	52-124	
Fluoranthene	ug/L	40	46	114	57-128	
bis(2-Ethylhexyl) phthalate	ug/L	40	41	102	55-135	
2-Fluorophenol (S)	%			82	10-90	
Phenol-d6 (S)	%			59	10-67	
Nitrobenzene-d5 (S)	%			113	32-147	
2-Fluorobiphenyl (S)	%			111	34-140	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2023954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			151	43-140	J4
p-Terphenyl-d14 (S)	%			117	54-138	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024232 2024233 Original: J1603721001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Phenol	ug/L	0	40	15	15	37	37	19-106	0	30	
2,4-Dichlorophenol	ug/L	0	40	32	32	80	81	47-121	1	30	
4-Chloro-3-methylphenol	ug/L	0	40	33	33	82	82	52-119	1	30	
2,4,6-Trichlorophenol	ug/L	0	40	39	40	98	101	50-125	3	30	
Hexachloroethane	ug/L	0	40	25	26	62	65	21-115	4	30	
Nitrobenzene	ug/L	0	40	34	35	85	88	45-121	2	30	
Hexachlorobutadiene	ug/L	0	40	27	27	69	68	22-124	0	30	
Acenaphthene	ug/L	0	40	36	37	91	92	47-122	2	30	
2,4-Dinitrotoluene (2,4-DNT)	ug/L	0	40	46	48	115	119	57-128	3	30	
Fluorene	ug/L	0	40	39	40	97	100	52-124	3	30	
Fluoranthene	ug/L	0	40	45	45	111	111	57-128	0	30	
bis(2-Ethylhexyl) phthalate	ug/L	0	40	40	41	99	101	55-135	2	30	
2-Fluorophenol (S)	%	36				36	36	10-90	2	30	
Phenol-d6 (S)	%	38				35	36	10-67	2		
Nitrobenzene-d5 (S)	%	114				99	100	32-147	2		
2-Fluorobiphenyl (S)	%	107				97	100	34-140	3	30	
2,4,6-Tribromophenol (S)	%	137				113	111	43-140	2	30	
p-Terphenyl-d14 (S)	%	116				115	116	54-138	1		

QC Batch: DGMt/1234 Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1 Prepared: 04/18/2016 19:20

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2023997

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	mg/L	0.000084	0.000084	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2023998

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2023999 2024000 Original: T1604644002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/L	0	0.001	0.0014	0.0014	139	140	70-130	1	20	J4

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024001 2024002 Original: T1604902001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/L	0	0.001	0.000084	0.000084	6	5	70-130	17	20	J4

QC Batch: WCAg/1955 Analysis Method: SM 5540 C
QC Batch Method: SM 5540 C Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2024221

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Surfactants	mg/L	0.040	0.040	U

LABORATORY CONTROL SAMPLE: 2024222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Surfactants	mg/L	2	2.0	99	75-125	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2024225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Surfactants	mg/L	2	2.0	99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2024223 2024224 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Surfactants	mg/L	0.057	1	1.0	1.1	98	101	75-125	3	20	

QC Batch: EXTj/1545 Analysis Method: EPA 549.2
QC Batch Method: EPA 549.2 Prepared: 04/19/2016 15:30
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2025098

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Diquat	ug/L	7.6	7.6	U

LABORATORY CONTROL SAMPLE & LCSD: 2025099 2025100

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Diquat	ug/L	290	300	310	105	108	70-130	3	30	

MATRIX SPIKE SAMPLE: 2025101 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Diquat	ug/L	0	290	330	114	70-130	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: HPLj/1033 Analysis Method: EPA 547
QC Batch Method: EPA 547 Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2025488

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Glyphosate	ug/L	6.5	6.5	U

LABORATORY CONTROL SAMPLE & LCSD: 2025489 2025490

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Glyphosate	ug/L	200	190	200	97	99	70-130	1	30	

MATRIX SPIKE SAMPLE: 2025492 Original: T1605089001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Glyphosate	ug/L	0	200	190	94	70-130	

QC Batch: EXTj/1550 Analysis Method: EPA 548.1
QC Batch Method: EPA 548.1 Prepared: 04/20/2016 13:20
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2026140

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Endothall	ug/L	0.75	0.75	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE & LCSD: 2026141 2026142

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Endothall	ug/L	50	39	41	79	81	63-131	3	30	

MATRIX SPIKE SAMPLE: 2026143 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Endothall	ug/L	0	83	71	86	63-131	

QC Batch: WCAt/2573 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2026327

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

LABORATORY CONTROL SAMPLE: 2026328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	670	101	75-125	

SAMPLE DUPLICATE: 2026329 Original: T1604203063

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	150	160	3	10	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: HPLj/1034 Analysis Method: EPA 531.1
QC Batch Method: EPA 531.1 Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2026765

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Oxamyl	ug/L	0.57	0.57	U
Carbofuran	ug/L	0.28	0.28	U

LABORATORY CONTROL SAMPLE & LCSD: 2026766 2026767

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Oxamyl	ug/L	20	21	17	105	86	70-130	20	30	
Carbofuran	ug/L	20	19	18	94	91	70-130	3	30	

MATRIX SPIKE SAMPLE: 2030219 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Oxamyl	ug/L	0	20	19	94	70-130	
Carbofuran	ug/L	0	20	17	86	70-130	

QC Batch: WCAt/2585 Analysis Method: EPA 300.1
QC Batch Method: EPA 300.1 Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2026791

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Bromate	ug/L	1.0	1.0	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2026792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Bromate	ug/L	40	36	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2026793 2026794 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Bromate	ug/L	0	40	38	37	96	93	75-125	3	20	

QC Batch: WCAt/2586 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2026797

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chlorite	ug/L	6.5	6.5 U	

LABORATORY CONTROL SAMPLE: 2026798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chlorite	ug/L	40	37	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2026799 2026800 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chlorite	ug/L	0	40	38	38	96	94	90-110	2	10	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: WCAt/2590 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Prepared:
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2027012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Cyanide	mg/L	0.0048	0.0048	U

LABORATORY CONTROL SAMPLE: 2027013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Cyanide	mg/L	0.04	0.037	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2027014 2027015 Original: M1601342001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Cyanide	mg/L	0.00031	0.04	0.036	0.038	91	94	90-110	4	10	

QC Batch: EXTj/1556 Analysis Method: EPA 508
QC Batch Method: EPA 508 Prepared: 04/21/2016 14:05
Associated Lab Samples: T1605201001, T1605201002

MATRIX SPIKE SAMPLE: 2027082 Original: T1605295001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Hexachlorocyclopentadiene	ug/L	0	0.12	0.14	113	65-135	
Hexachlorobenzene	ug/L	0	0.12	0.12	98	65-135	
gamma-BHC (Lindane)	ug/L	0	0.12	0.16	132	65-135	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

MATRIX SPIKE SAMPLE: 2027082 Original: T1605295001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Heptachlor	ug/L	0	0.12	0.14	115	65-135	
Heptachlor Epoxide	ug/L	0	0.12	0.14	120	65-135	
Endrin	ug/L	0	0.12	0.14	118	65-135	
Methoxychlor	ug/L	0	0.12	0.16	132	65-135	
PCBs	ug/L			0.13			
Chlordane (technical)	ug/L			0.064			
Toxaphene	ug/L			0.15			
Tetrachloro-m-xylene (S)	%				106	70-130	
Decachlorobiphenyl (S)	%				91	70-130	

QC Batch: WCAt/2591 Analysis Method: SM 4500H+B

QC Batch Method: SM 4500H+B Prepared:

Associated Lab Samples: T1605201001, T1605201002

SAMPLE DUPLICATE: 2027123 Original: T1604974001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
pH	SU	7.3	7.3	0	10	

QC Batch: MSVt/1423 Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2 Prepared:

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2028564

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Vinyl Chloride	ug/L	0.32	0.32	U
1,1-Dichloroethylene	ug/L	0.24	0.24	U
Methylene Chloride	ug/L	0.20	0.20	U
trans-1,2-Dichloroethylene	ug/L	0.34	0.34	U
cis-1,2-Dichloroethylene	ug/L	0.45	0.45	U
1,2-Dichloroethane	ug/L	0.21	0.21	U
1,1,1-Trichloroethane	ug/L	0.32	0.32	U
Carbon Tetrachloride	ug/L	0.27	0.27	U
Benzene	ug/L	0.15	0.15	U
1,2-Dichloropropane	ug/L	0.46	0.46	U
Trichloroethene	ug/L	0.25	0.25	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2028564

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,2-Trichloroethane	ug/L	0.39	0.39	U
Toluene	ug/L	0.20	0.20	U
Tetrachloroethylene (PCE)	ug/L	0.25	0.25	U
Chlorobenzene	ug/L	0.35	0.35	U
Ethylbenzene	ug/L	0.20	0.20	U
Styrene	ug/L	0.21	0.21	U
1,4-Dichlorobenzene	ug/L	0.19	0.19	U
1,2-Dichlorobenzene	ug/L	0.26	0.26	U
1,2,4-Trichlorobenzene	ug/L	0.21	0.21	U
Xylene (Total)	ug/L	0.48	0.48	U
1,2-Dichloroethane-d4 (S)	%	107	70-130	
Toluene-d8 (S)	%	100	70-130	
Bromofluorobenzene (S)	%	111	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 2028565 2028566

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Vinyl Chloride	ug/L	20	21	22	107	109	70-130	2	30	
1,1-Dichloroethylene	ug/L	20	23	23	116	117	70-130	1	30	
Methylene Chloride	ug/L	20	23	24	117	118	70-130	1	30	
trans-1,2-Dichloroethylene	ug/L	20	21	21	107	107	70-130	0	30	
cis-1,2-Dichloroethylene	ug/L	20	22	22	108	111	70-130	3	30	
1,2-Dichloroethane	ug/L	20	24	24	122	121	70-130	1	30	
1,1,1-Trichloroethane	ug/L	20	23	22	114	113	70-130	2	30	
Carbon Tetrachloride	ug/L	20	24	23	121	116	70-130	4	30	
Benzene	ug/L	20	23	23	114	116	70-130	2	30	
1,2-Dichloropropane	ug/L	20	22	21	108	106	70-130	2	30	
Trichloroethene	ug/L	20	22	23	110	113	70-130	2	30	
1,1,2-Trichloroethane	ug/L	20	24	24	121	121	70-130	0	30	
Toluene	ug/L	20	22	22	109	109	70-130	0	30	
Tetrachloroethylene (PCE)	ug/L	20	21	21	103	106	70-130	2	30	
Chlorobenzene	ug/L	20	21	22	107	109	70-130	2	30	
Ethylbenzene	ug/L	20	23	23	113	114	70-130	1	30	
Styrene	ug/L	20	22	22	108	110	70-130	2	30	
1,4-Dichlorobenzene	ug/L	20	23	24	116	120	70-130	3	30	
1,2-Dichlorobenzene	ug/L	20	24	25	118	123	70-130	4	30	
1,2,4-Trichlorobenzene	ug/L	20	22	24	112	119	70-130	6	30	
Xylene (Total)	ug/L	60	69	70	115	117	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%				111	103	70-130	7		
Toluene-d8 (S)	%				92	91	70-130	1		

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE & LCSD: 2028565 2028566

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromofluorobenzene (S)	%				105	107	70-130	2		

MATRIX SPIKE SAMPLE: 2028567 Original: T1605091002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
1,2-Dichloroethane	ug/L	0	20	25	124	70-130	
Benzene	ug/L	0	20	23	116	70-130	
1,2-Dichloropropane	ug/L	0	20	22	109	70-130	
Chlorobenzene	ug/L	0	20	21	106	70-130	
1,4-Dichlorobenzene	ug/L	0	20	23	114	70-130	
1,2-Dichlorobenzene	ug/L	0	20	24	120	70-130	
1,2-Dichloroethane-d4 (S)	%				112	70-130	
Toluene-d8 (S)	%				92	70-130	
Bromofluorobenzene (S)	%				106	70-130	

QC Batch: MSVt/1424 Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2 Prepared:

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2028568

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloroform	ug/L	0.31	0.31	U
Bromodichloromethane	ug/L	0.49	0.49	U
Dibromochloromethane	ug/L	0.56	0.56	U
Bromoform	ug/L	0.46	0.46	U
Total Trihalomethanes	ug/L	0.31	0.31	U
1,2-Dichloroethane-d4 (S)	%	107	70-130	
Toluene-d8 (S)	%	100	70-130	
Bromofluorobenzene (S)	%	111	70-130	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE & LCSD: 2028569 2028570

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloroform	ug/L	20	23.43	22.84	117	114	70-130	3	30	
Bromodichloromethane	ug/L	20	23.90	23.70	120	119	70-130	1	30	
Dibromochloromethane	ug/L	20	24.00	23.76	120	119	70-130	1	30	
Bromoform	ug/L	20	23.02	23.67	115	118	70-130	3	30	
Total Trihalomethanes	ug/L		94.35	93.97				0		
1,2-Dichloroethane-d4 (S)	%				111	103	70-130	7		
Toluene-d8 (S)	%				92	91	70-130	1		
Bromofluorobenzene (S)	%				105	107	70-130	2		

MATRIX SPIKE SAMPLE: 2028571 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloroform	ug/L	0	20	22.90	115	70-130	
Bromodichloromethane	ug/L	0	20	23.06	115	70-130	
Dibromochloromethane	ug/L	0	20	22.99	115	70-130	
Bromoform	ug/L	0	20	22.94	115	70-130	
Total Trihalomethanes	ug/L			91.89			
1,2-Dichloroethane-d4 (S)	%	111			112	70-130	
Toluene-d8 (S)	%	99			92	70-130	
Bromofluorobenzene (S)	%	112			106	70-130	

QC Batch: MSVt/1428 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 04/25/2016 00:00

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2029285

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.36	0.36	U
Bromomethane	ug/L	0.81	0.81	U
Chloroethane	ug/L	0.38	0.38	U
Acrolein (Propenal)	ug/L	3.1	3.1	U
Acrylonitrile	ug/L	4.6	4.6	U
1,1-Dichloroethane	ug/L	0.86	0.86	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2029285

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Chloroethyl Vinyl Ether	ug/L	0.38	0.38	U
trans-1,3-Dichloropropylene	ug/L	0.22	0.22	U
1,1,2,2-Tetrachloroethane	ug/L	0.17	0.17	U
1,2-Dichloroethane-d4 (S)	%	112	70-130	
Toluene-d8 (S)	%	103	70-130	
Bromofluorobenzene (S)	%	119	70-130	

LABORATORY CONTROL SAMPLE: 2029286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			113	70-130	
Toluene-d8 (S)	%			105	70-130	
Bromofluorobenzene (S)	%			110	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2029287 2029288 Original: T1604203059

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	103				115	110	70-130	4		
Toluene-d8 (S)	%	101				101	103	70-130	3		
Bromofluorobenzene (S)	%	116				107	107	70-130	0		

QC Batch: WCAt/2662 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2029664

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Fluoride	mg/L	0.10	0.10	U
Chloride	mg/L	1.0	1.0	U
Sulfate	mg/L	1.0	1.0	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2029665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Fluoride	mg/L	2.5	2.8	110	90-110	
Chloride	mg/L	25	26	102	90-110	
Sulfate	mg/L	25	26	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2029666 2029667 Original: T1605201002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0	2.5	2.8	2.8	110	111	90-110	1	10	
Chloride	mg/L	0.79	25	27	27	106	109	90-110	2	10	
Sulfate	mg/L	0	25	26	27	104	106	90-110	3	10	

QC Batch: EXTj/1584 Analysis Method: EPA 525.2

QC Batch Method: EPA 525.2 Prepared: 04/25/2016 14:30

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2029715

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Simazine	ug/L	0.19	0.19	U
Atrazine	ug/L	0.16	0.16	U
Alachlor	ug/L	0.26	0.26	U
Di(2-ethylhexyl) adipate	ug/L	0.95	0.95	U
bis(2-Ethylhexyl) phthalate	ug/L	1.5	1.5	U
Benzo[a]pyrene	ug/L	0.096	0.096	U
p-Terphenyl-d14 (S)	%	74	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 2029716 2029717

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Simazine	ug/L	2	1.9	1.8	93	92	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE & LCSD: 2029716 2029717

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Atrazine	ug/L	2	1.8	1.9	91	93	70-130	2	30	
Alachlor	ug/L	2	2.2	2.2	109	108	70-130	0	30	
Di(2-ethylhexyl) adipate	ug/L	2	1.5	1.5	73	73	70-130	0	30	
bis(2-Ethylhexyl) phthalate	ug/L	2	2.1	2.2	105	108	70-130	3	30	
Benzo[a]pyrene	ug/L	2	2.1	2.0	104	102	70-130	2	30	
p-Terphenyl-d14 (S)	%				73	71	70-130	2		

MATRIX SPIKE SAMPLE: 2029718 Original: T1605295001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Simazine	ug/L	0	2	1.8	88	70-130	
Atrazine	ug/L	0	2	1.8	89	70-130	
Alachlor	ug/L	0	2	2.1	107	70-130	
Di(2-ethylhexyl) adipate	ug/L	0	2	1.6	80	70-130	
bis(2-Ethylhexyl) phthalate	ug/L	0.4896	2	2.3	114	70-130	
Benzo[a]pyrene	ug/L	0	2	2.4	119	70-130	
p-Terphenyl-d14 (S)	%				87	70-130	

QC Batch: GCSt/1177 Analysis Method: EPA 552.2

QC Batch Method: EPA 552.2 Prepared: 04/26/2016 09:00

Associated Lab Samples: T1605201001

METHOD BLANK: 2029884

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Chloroacetic Acid	ug/L	0.20	0.20	U
Bromoacetic Acid	ug/L	0.54	0.54	U
Dichloroacetic Acid	ug/L	0.81	0.81	U
Trichloroacetic Acid	ug/L	0.91	0.91	U
Dibromoacetic Acid	ug/L	0.54	0.54	U
Total Haloacetic Acids (HAA5)	ug/L	0.20	0.20	U
2,3-Dibromopropionic Acid (S)	%	111	70-130	

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2029885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Chloroacetic Acid	ug/L	20	18.15	91	70-130	
Bromoacetic Acid	ug/L	20	19.94	100	70-130	
Dichloroacetic Acid	ug/L	20	21.41	107	70-130	
Trichloroacetic Acid	ug/L	20	21.64	108	70-130	
Dibromoacetic Acid	ug/L	20	22.94	115	70-130	
Total Haloacetic Acids (HAA5)	ug/L		104.09			
2,3-Dibromopropionic Acid (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2029886 2029887 Original: A1602690001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Chloroacetic Acid	ug/L	0	20	18.45	17.49	92	87	70-130	5	30	
Bromoacetic Acid	ug/L	4.64	20	26.06	24.54	107	99	70-130	6	30	
Dichloroacetic Acid	ug/L	3.19	20	26.34	26.01	116	114	70-130	1	30	
Trichloroacetic Acid	ug/L	1.13	20	25.91	26.85	124	129	70-130	4	30	
Dibromoacetic Acid	ug/L	6.85	20	33.83	34.75	135	140	70-130	3	30	J4
Total Haloacetic Acids (HAA5)	ug/L			130.59	129.65				1	30	
2,3-Dibromopropionic Acid (S)	%					113	123	70-130	8	30	

QC Batch: GCSj/1405 Analysis Method: EPA 515.3

QC Batch Method: EPA 515.3 Prepared: 04/26/2016 12:00

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2029992

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Dalapon	ug/L	1.0	1.0	U
2,4-D	ug/L	1.5	1.5	U
Pentachlorophenol	ug/L	0.069	0.069	U
Silvex (2,4,5-TP)	ug/L	0.32	0.32	U
Picloram	ug/L	0.23	0.23	U

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2029992

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dinoseb	ug/L	0.86	0.86	U
2,4-Dichlorophenylacetic acid (S)	%	96	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 2029993 2029994

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Dalapon	ug/L	25	26	25	103	102	70-130	1	30	
2,4-D	ug/L	12	14	14	111	114	70-130	2	30	
Pentachlorophenol	ug/L	2.5	2.0	2.1	80	82	70-130	3	30	
Silvex (2,4,5-TP)	ug/L	5	4.0	3.9	79	79	70-130	1	30	
Picloram	ug/L	2.5	2.2	2.3	88	90	70-130	3	30	
Dinoseb	ug/L	12	11	12	89	93	70-130	4	30	
2,4-Dichlorophenylacetic acid (S)	%				96	85	70-130	12		

MATRIX SPIKE SAMPLE: 2029995 Original: T1605201001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							J4
Dalapon	ug/L	0	25	22	88	70-130	
2,4-D	ug/L	0	12	11	90	70-130	
Pentachlorophenol	ug/L	0	2.5	1.3	50	70-130	
Silvex (2,4,5-TP)	ug/L	0	5	5.0	101	70-130	
Picloram	ug/L	0	2.5	1.3	52	70-130	
Dinoseb	ug/L	0	12	8.3	66	70-130	
2,4-Dichlorophenylacetic acid (S)	%	10			8	70-130	J4

QC Batch: WCAt/2665 Analysis Method: SM 2150 B

QC Batch Method: SM 2150 B Prepared:

Associated Lab Samples: T1605201001, T1605201002

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

SAMPLE DUPLICATE: 2030252 Original: T1605160001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Odor	TON	1.0U	1.0	0		

QC Batch: EXT/1291 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Prepared: 04/27/2016 12:00
Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2031345

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0069	0.0069	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0097	0.0097	U
Tetrachloro-m-xylene (S)	%	91	64-150	

LABORATORY CONTROL SAMPLE: 2031346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Ethylene Dibromide (EDB)	ug/L	0.25	0.21	83	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.23	91	70-130	
Tetrachloro-m-xylene (S)	%			101	64-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2031347 2031348 Original: T1605296001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Ethylene Dibromide (EDB)	ug/L	0	0.25	0.22	0.22	87	87	70-130	0	30	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.25	0.24	0.23	94	92	70-130	3	30	
Tetrachloro-m-xylene (S)	%					95	95	64-150	1		

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QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

QC Batch: WCAt/2687 Analysis Method: SM 2120 B

QC Batch Method: SM 2120 B Prepared:

Associated Lab Samples: T1605201001, T1605201002

METHOD BLANK: 2031458

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
pH for Color Analysis	SU	0.10	0.10	U
Color	PCU	2.7	2.7	U

LABORATORY CONTROL SAMPLE: 2031460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
pH for Color Analysis	SU		0.10			
Color	PCU	30	29	96	90-110	

SAMPLE DUPLICATE: 2031462 Original: T1605090001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
pH for Color Analysis	SU	7.0	7.0	0	10	
Color	PCU	3.3I	3.4	4	20	

QC Batch: GCSj/1410 Analysis Method: EPA 552.2

QC Batch Method: EPA 552.2 Prepared: 04/28/2016 12:30

Associated Lab Samples: T1605201002

METHOD BLANK: 2032175

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Chloroacetic Acid	ug/L	0.89	0.89	U
Bromoacetic Acid	ug/L	0.52	0.52	U
Dichloroacetic Acid	ug/L	0.89	0.89	U
Trichloroacetic Acid	ug/L	0.67	0.67	U
Dibromoacetic Acid	ug/L	0.73	0.73	U
Total Haloacetic Acids (HAA5)	ug/L	0.52	0.52	U

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2032175

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2,3-Dibromopropionic Acid (S)	%	104	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 2032176 2032177

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Chloroacetic Acid	ug/L	20	16.87	16.17	84	81	70-130	4	30	
Bromoacetic Acid	ug/L	20	16.35	15.68	82	78	70-130	4	30	
Dichloroacetic Acid	ug/L	20	17.12	16.60	86	83	70-130	3	30	
Trichloroacetic Acid	ug/L	20	19.51	19.91	98	100	70-130	2	30	
Dibromoacetic Acid	ug/L	20	18.85	18.49	94	92	70-130	2	30	
Total Haloacetic Acids (HAA5)	ug/L		88.70	86.85				2	30	
2,3-Dibromopropionic Acid (S)	%				101	101	70-130	0	30	

MATRIX SPIKE SAMPLE: 2032178 Original: A1602880004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Chloroacetic Acid	ug/L	1.5	20	19.18	88	70-130	
Bromoacetic Acid	ug/L	0.61	20	18.16	88	70-130	
Dichloroacetic Acid	ug/L	15.1	20	32.69	88	70-130	
Trichloroacetic Acid	ug/L	16.97	20	38.93	110	70-130	
Dibromoacetic Acid	ug/L	1.94	20	19.39	87	70-130	
Total Haloacetic Acids (HAA5)	ug/L			128.35			
2,3-Dibromopropionic Acid (S)	%				97	70-130	

MATRIX SPIKE SAMPLE: 2032179 Original: T1605348001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							J4
Chloroacetic Acid	ug/L	0.57	20	12.43	62	70-130	
Bromoacetic Acid	ug/L	1.11	20	16.48	77	70-130	
Dichloroacetic Acid	ug/L	3.38	20	17.88	73	70-130	
Trichloroacetic Acid	ug/L	0.78	20	20.61	99	70-130	

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Phone: (813)630-9616
Fax: (813)630-4327

QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

MATRIX SPIKE SAMPLE: 2032179 Original: T1605348001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromoacetic Acid	ug/L	2.67	20	20.33	88	70-130	
Total Haloacetic Acids (HAA5)	ug/L			87.73			
2,3-Dibromopropionic Acid (S)	%	97			107	70-130	

QC Batch: GCSj/1422 Analysis Method: EPA 515.3
QC Batch Method: EPA 515.3 Prepared: 05/02/2016 13:30

METHOD BLANK: 2033922

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2,4-Dichlorophenylacetic acid (S)	%	114	70-130	

LABORATORY CONTROL SAMPLE & LCSD: 2033923 2033924

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
2,4-Dichlorophenylacetic acid (S)	%				100	97	70-130	3		

MATRIX SPIKE SAMPLE: 2033925 Original: T1605647003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenylacetic acid (S)	%				97	70-130	

QC Batch: DGMt/1306 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Prepared: 05/11/2016 12:00
Associated Lab Samples: T1605201001

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

METHOD BLANK: 2043111

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Sodium	mg/L	0.042	0.042 U	

LABORATORY CONTROL SAMPLE: 2043112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Sodium	mg/L	50	50	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043113 2043114 Original: T1605201001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Sodium	mg/L	2500	50	2200	2300	-679	-469	70-130	5	20	J4

QC Batch: DGMt/1334
QC Batch Method: EPA 200.7
Associated Lab Samples: T1605201001

Analysis Method: EPA 200.7
Prepared: 05/17/2016 10:00

METHOD BLANK: 2048273

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Aluminum	mg/L	0.12	0.12 U	
Barium	mg/L	0.00049	0.00049 U	
Beryllium	mg/L	0.00011	0.00011 U	
Chromium	mg/L	0.00030	0.00030 U	
Iron	mg/L	0.021	0.021 U	
Nickel	mg/L	0.0012	0.0012 U	

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

QUALITY CONTROL DATA

Workorder: T1605201 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2048274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Aluminum	mg/L	25	24	95	85-115	
Barium	mg/L	0.4	0.38	94	85-115	
Beryllium	mg/L	0.4	0.38	95	85-115	
Chromium	mg/L	0.4	0.37	94	85-115	
Iron	mg/L	25	24	95	85-115	
Nickel	mg/L	0.4	0.39	97	85-115	

QUALITY CONTROL DATA QUALIFIERS

Workorder: T1605201 SELF Plant Effluent

QUALITY CONTROL PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result
Q	Missed Hold Time
V	Method Blank Contamination

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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Phone: (813)630-9616
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1605201 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1605201001	SELF Effluent			SM 3500-CR D	WCAt/2446
T1605201002	Field Blank			SM 3500-CR D	WCAt/2446
T1605201001	SELF Effluent	EPA 200.8	DGMj/1389	EPA 200.8	ICMj/1105
T1605201002	Field Blank	EPA 200.8	DGMj/1389	EPA 200.8	ICMj/1105
T1605201001	SELF Effluent	SW-846 3510C	EXTj/1535	SW-846 8082A	GCSj/1372
T1605201002	Field Blank	SW-846 3510C	EXTj/1535	SW-846 8082A	GCSj/1372
T1605201001	SELF Effluent	SW-846 3510C	EXTj/1536	EPA 8081	GCSj/1373
T1605201002	Field Blank	SW-846 3510C	EXTj/1536	EPA 8081	GCSj/1373
T1605201002	Field Blank	EPA 200.7	DGMt/1228	EPA 200.7	ICPt/1158
T1605201001	SELF Effluent			SM 4500NO3-F	WCAt/2515
T1605201002	Field Blank			SM 4500NO3-F	WCAt/2515
T1605201001	SELF Effluent	SW-846 3510C	EXTj/1541	SW-846 8270C	MSSj/1225
T1605201002	Field Blank	SW-846 3510C	EXTj/1541	SW-846 8270C	MSSj/1225
T1605201001	SELF Effluent	EPA 245.1	DGMt/1234	EPA 245.1	CVAt/1045
T1605201002	Field Blank	EPA 245.1	DGMt/1234	EPA 245.1	CVAt/1045
T1605201001	SELF Effluent			SM 5540 C	WCAg/1955
T1605201002	Field Blank			SM 5540 C	WCAg/1955
T1605201001	SELF Effluent	EPA 549.2	EXTj/1545	EPA 549.2	HPLj/1036
T1605201002	Field Blank	EPA 549.2	EXTj/1545	EPA 549.2	HPLj/1036
T1605201001	SELF Effluent			EPA 547	HPLj/1033
T1605201002	Field Blank			EPA 547	HPLj/1033

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1605201 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1605201001	SELF Effluent	EPA 548.1	EXTj/1550	EPA 548.1	MSSj/1240
T1605201002	Field Blank	EPA 548.1	EXTj/1550	EPA 548.1	MSSj/1240
T1605201001	SELF Effluent			SM 2540 C	WCAt/2573
T1605201002	Field Blank			SM 2540 C	WCAt/2573
T1605201001	SELF Effluent			EPA 531.1	HPLj/1034
T1605201002	Field Blank			EPA 531.1	HPLj/1034
T1605201001	SELF Effluent			EPA 300.1	WCAt/2585
T1605201002	Field Blank			EPA 300.1	WCAt/2585
T1605201001	SELF Effluent			EPA 300.0	WCAt/2586
T1605201002	Field Blank			EPA 300.0	WCAt/2586
T1605201001	SELF Effluent			SM 4500-CN-E	WCAt/2590
T1605201002	Field Blank			SM 4500-CN-E	WCAt/2590
T1605201001	SELF Effluent	EPA 508	EXTj/1556	EPA 508	GCSj/1385
T1605201002	Field Blank	EPA 508	EXTj/1556	EPA 508	GCSj/1385
T1605201001	SELF Effluent			SM 4500H+B	WCAt/2591
T1605201002	Field Blank			SM 4500H+B	WCAt/2591
T1605201001	SELF Effluent			EPA 524.2	MSVt/1423
T1605201002	Field Blank			EPA 524.2	MSVt/1423
T1605201001	SELF Effluent			EPA 524.2	MSVt/1424
T1605201002	Field Blank			EPA 524.2	MSVt/1424
T1605201001	SELF Effluent	SW-846 5030B	MSVt/1428	SW-846 8260B	MSVt/1429
T1605201002	Field Blank	SW-846 5030B	MSVt/1428	SW-846 8260B	MSVt/1429

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1605201 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1605201001	SELF Effluent			EPA 300.0	WCAt/2662
T1605201002	Field Blank			EPA 300.0	WCAt/2662
T1605201001	SELF Effluent	EPA 525.2	EXTj/1584	EPA 525.2	MSSj/1244
T1605201002	Field Blank	EPA 525.2	EXTj/1584	EPA 525.2	MSSj/1244
T1605201001	SELF Effluent	EPA 552.2	GCSt/1177	EPA 552.2	GCSt/1178
T1605201001	SELF Effluent	EPA 515.3	GCSj/1405	EPA 515.3	GCSj/1413
T1605201002	Field Blank	EPA 515.3	GCSj/1405	EPA 515.3	GCSj/1413
T1605201001	SELF Effluent			SM 2150 B	WCAt/2665
T1605201002	Field Blank			SM 2150 B	WCAt/2665
T1605201001	SELF Effluent	EPA 504.1	EXTt/1291	EPA 504.1	GCSt/1184
T1605201002	Field Blank	EPA 504.1	EXTt/1291	EPA 504.1	GCSt/1184
T1605201001	SELF Effluent			SM 2120 B	WCAt/2687
T1605201002	Field Blank			SM 2120 B	WCAt/2687
T1605201002	Field Blank	EPA 552.2	GCSj/1410	EPA 552.2	GCSj/1411
T1605201001	SELF Effluent	EPA 200.7	DGMt/1306	EPA 200.7	ICPt/1209
T1605201001	SELF Effluent	EPA 200.7	DGMt/1334	EPA 200.7	ICPt/1227
T1605201001	SELF Effluent	Field Measurements	FLDt/	Field Measurements	FLDt/

Advanced
Environmental Laboratories, Inc.

☐ **Altamonte Springs:** 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
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☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

T1605201

Client Name: Hills. Co. Public Utilities
Address: 332 North Falkenburg Rd.
Tampa, Florida 33619
Phone: (813) 663-3222
FAX: (813) 274-6801
Contact: Michael Townsel
Sampled By: Z.PATTERSON / A.BALLOON / J. FULLER
Turn Around Time: ☒ STANDARD ☐ RUSH
Page: 1 of: 1

Project Name: SELF Plant Effluent
P.O. Number/Project Number: N/A
Project Location: Southeast County Landfill
REMARKS/SPECIAL INSTRUCTIONS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: Primary DW Standards	Secondary DW Standards	Priority Pollutants	LABORATORY I.D. NUMBER
	SELF EFFLUENT	G	4/15/16	11:50	EFF.				X	X	X	001
	FIELD BLANK	↓		11:25	DI				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 = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

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

Temperature when received 8.5° DEF (in degrees celcius)

Form revised 09/19/2012

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: 1A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4/15/16			04-15	13:10
2						
3						
4						

FOR DRINKING WATER USE (When PWS Information not otherwise supplied)

PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SELF Plant Effluent	SITE LOCATION:	
WELL NO:	SELF EFFLUENT	SAMPLE ID: SELF EFFLUENT	DATE: 4/15/16

PURGING DATA

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

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:50	N/A	N/A	N/A	N/A	8.63	28.03	14777	2.32	N/A	tan/Brn	light

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. Fuller ANDREW BALLOON / ZACK PATTERSON	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:50	SAMPLING ENDED AT: 12:00
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N (Dedicated)	TUBING Y N (Dedicated)	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)

SEE COC FOR 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)

Revision Date: February 2009

KNL ENVIRONMENTAL TESTING

DOH Certification #E84025

Report Date: May 6, 2016

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: 001 Self Effluent

Sample Collection: 4-15-16/1150

Lab ID No: 16.4071
Lab Custody Date: 4-18-16/1345
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	4.7 I ± 1.5	4-21-16/1116	EPA 00-02	1.5
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.3 ± 0.6	Calc	Calc	0.8
Radium-226	pCi/l	2.0 ± 0.5	4-25-16/1123	EPA 903.0	0.4
Radium-228	pCi/l	1.3 I ± 0.6	4-25-16/1045	EPA Ra-05	0.8

Alpha Standard: Th-230

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

James W. Hayes
Laboratory Manager

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

KNL ENVIRONMENTAL TESTING

DOH Certification #E84025

Report Date: May 6, 2016

Advanced Environmental Labs
9610 Princess Palm Ave
Tampa, FL 33619

Field Custody: Client
Client/Field ID: 002 Field Blank

Sample Collection: 4-15-16/1125

Lab ID No: 16.4072
Lab Custody Date: 4-18-16/1345
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.9 U ± 0.7	4-21-16/1116	EPA 900.0	1.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.3 U ± 0.2	Calc	Calc	0.3
Radium-226	pCi/l	0.3 U ± 0.2	4-25-16/1123	EPA 903.0	0.3
Radium-228	pCi/l	0.8 U ± 0.5	4-25-16/1045	EPA Ra-05	0.8

Alpha Standard: Th-230

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

James W. Hayes
Laboratory Manager

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

Advanced
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6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

QCBatch: **ICPt:1158**
Method: **200.7**
PrepMethod: **200.7**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of Na for T1605164002 and T1605164003 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Advanced
Environmental Laboratories, Inc.

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

QCBatch: **ICMJ:1105**
Method: **EPA 200.8**
PrepMethod: **EPA 200.8**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank contained low levels of Silver above the Method Detection Limit (MDL) but below the PQL. None of the samples in the batch were detected above the method detection limit, so no further corrective action is required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The parent sample used for MS/MSD was reported for lead only. The MS/MSD failed low for copper,silver and selenium. No further correction was necessary.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: The sample extract T1605201001 was diluted prior to instrumental analysis due to the extract was colored , which indicated the need to perform a dilution.

G. Other:

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QCBatch: **WCAt:2585**
Method: **EPA 300.0 LL**
PrepMethod: **EPA 300.0 LL**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

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

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: All acceptance criteria were met.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other: Due to the high level of non-targeted analytes in sample T1605201001, a dilution was required to analyze the sample.

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QCBatch: **WCAt:2586**
Method: **EPA 300.1**
PrepMethod: **EPA 300.1**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

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

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: All acceptance criteria were met.
E. Serial Dilution: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other: Due to the high level of non-targeted analytes in sample T1605201001, a dilution was need to analyze the sample.

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QCBatch: **ICPt:1227a**
Method: **6010**
PrepMethod: **3010**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: The sample T1605201001 was ran at a 10X to eliminate interferences caused by high Sodium. This caused the Al MDL to be higher than the MCL

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QCBatch: **ICPt:1209**
Method: **EPA 200.7**
PrepMethod: **EPA 200.7**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of Na for T1605201001 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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QCBatch: **GCSj:1385**
Method: **EPA 508**
PrepMethod: **EPA 508**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: The upper control criterion was exceeded for mutliple target analytes in one or more of the Continuing Calibration Verification (CCV) standards for analytical batch GCSj:1385. The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criterion were not met for the following surrogate in sample number T1605089002 due to matrix interferences: Tetrachloro-m-xylene (at 69% (Limit 70-130%)). As physical evidence of the sample matrix interference, the chromatography indicated the presence of non-target background components. The affected surrogate was qualified accordingly.

The control criteria for the following surrogates in sample number T1605201001 are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Practical Quantiation Limit (PQL). No further corrective action was required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: The Method Detection Limit (MDL) is elevated for all target analytes in sample number T1605201001. The chromatogram/analysis indicated the presence of non-target background components. The matrix prevented adequate resolution of the target analytes at the reporting limit. The results were qualified to indicate matrix interference.

Sample numbers J1603641014, J1603641015, and J1603641016 required dilution due to the presence of elevated levels of target analytes. The reporting limits are adjusted to reflect the dilution.

G. Other:

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QCBatch: **GCSt:1184**
Method: **EPA 504.1**
PrepMethod: **EPA 504.1**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: T1605201001:
The control criteria for Tetrachloro-m-xylene in the sample above were exceeded due to suspected matrix interference. The extractionist noted emulsions in the sample which are known to adversely affect recovery. The sample was qualified accordingly. No further corrective action was required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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QCBatch: **GCSj:1413**
Method: **EPA 515.3**
PrepMethod: **EPA 515.3**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogate in sample number T1605201001 was not applicable: 2,4-Dichlorophenylacetic acid (at 10% (Limits (70-130%)). The chromatogram indicated the presence of non-target background components that masked the surrogate, which prevented adequate resolution for quantitation. The associated matrix spike 2029995 (MS) recovered below the acceptance criteria for surrogate 2,4-Dichlorophenylacetic acid yield (at 8% (Limits (70-130%)) - thereby verifying the sample matrix interferences. The affected surrogates were qualified to indicate matrix interference.

D. Spikes: The matrix spike 2029995 (MS) recoveries of analytes Pentachlorophenol (at 50% (Limits 70-130%)), Picloram (at 52% (Limits (70-130%)), and Dinoseb (at 66% (Limits 70-130%)) for sample number T1605201001 were outside control criteria. Recoveries in the Laboratory Control Sample 2029993 (LCS) and Laboratory Control Sample Duplicate 2029994 (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 was qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample number J1603641019 required dilution due to the presence of elevated levels of the target analytes. The reporting limits were adjusted to reflect the dilution.

G. Other:

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QCBatch: **MSSj:1244**
Method: **EPA 525.2**
PrepMethod: **EPA 525.2**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: The data were reported as Is.

F. Samples: The sample T1605201001 was diluted due to matrix interferences with the internal standard Chrysene-d12 and Perylene-d12 which prevented adequate resolution of the internal standards. The sample was done at the lowest dilution. No further corrective action was required.

G. Other:

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QCBatch: **GCSJ:1373**
Method: **EPA 8081**
PrepMethod: **SW-846 3510C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: The upper control criterion was exceeded for the following analytes in one or more of the Continuing Calibration Verification (CCV) standards associated with samples 2024428 (MS), 2024429 (MSD), J1603613002 and S1600495001: delta-BHC, alpha-BHC, and 4,4,'-DDD. The results reported for the client samples J1603613002 and S1600495001 did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogates in sample number S1600495001, and its associated matrix QC samples 2024428 (MS) and 2024429 (MSD), are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The low surrogate recoveries in the parent sample were confirmed in the associated matrix QC samples - thereby verifying the sample matrix interference. The S1600495001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

The control criteria for the following surrogate in sample number T1605201001 was not met due to sample matrix interference: Decachlorobiphenyl. The sample became emulsive in the solvent layer during the extraction procedure. Emulsions are known to adversely affect surrogate recoveries. The data were qualified to indicate the sample matrix interference.

The control criteria for the following surrogates in sample number J1603613002 are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Practical Quantitation Limit (PQL). No further corrective action was required.

D. Spikes: The matrix spike 2024428 (MS) recoveries for multiple spiking analytes in sample S1600495001 were outside control criteria. The low spike recoveries were confirmed in the associated matrix spike duplicate 2024429 (MSD) - thereby verifying the sample matrix interference. Recoveries in the Laboratory Control Sample 2023764 (LCS) were acceptable, which indicates the analytical batch was in control. The S1600495001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: The Method Detection Limit (MDL) is elevated for all analytes in sample numbers S1600495001, and its associated

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matrix QC samples 2024428 (MS) and 2024429 (MSD), and J1603613002 because the samples required dilution. The chromatograms indicated the presence of high concentrations of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the MDL. The results were qualified to indicate matrix interference.

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QCBatch: **GCSj:1372**
Method: **SW-846 8082A**
PrepMethod: **SW-846 3510C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogates in sample number T1605201001 are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The surrogate yields in the Method Blank 2023760 (MB) and Laboratory Control Sample 2023761 (LCS) were acceptable, which indicates the analytical batch was in control. The low surrogate yields in sample number T1605201001 suggests a potential low bias in this matrix. As physical evidence of the sample matrix interferences, the extract was a light yellow hue, emitted a strong odor, and became emulsive in the solvent layer during the extraction procedure. The affected sample was qualified to indicate matrix interference.

The control criteria for the following surrogates in sample number J1603762001, and its associated matrix QC samples 2025564 (MS) and 2025565 (MSD), are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The low surrogate recoveries in the parent sample were confirmed in the associated matrix QC samples - thereby verifying the sample matrix interference. The J1603762001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

D. Spikes: The matrix spike 2025564 (MS) recovery for analyte Aroclor 1016 in sample J1603762001 was outside control criteria. The matrix spike duplicate 2025565 (MSD) recoveries for analytes Aroclor 1016 and 1260 in sample J1603762001 were outside control criteria.The low spike recoveries were confirmed in the associated matrix spike duplicate - thereby verifying the sample matrix interference. Recoveries in the Laboratory Control Sample 2023761 (LCS) were acceptable, which indicates the analytical batch was in control. The J1603762001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Samples M1601310003 and M1601310004 were acid cleaned as per EPA method 3665a.

The Method Detection Limit (MDL) is elevated for all analytes in sample numbers J1603762001, and its associated matrix QC samples 2025564 (MS) and 2025565 (MSD) because the samples required dilution. The chromatograms indicated the presence of high concentrations of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the MDL. The results were qualified to indicate matrix interference.

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QCBatch: **GCSt:1178**
Method: **EPA 552.2**
PrepMethod: **EPA 552.2**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: A1602690001:
The matrix spike (MS) and matrix spike duplicate (MSD) recovery of Dibromoacetic Acid for the above sample were outside control criteria, biased high. Recovery in the laboratory control sample (LCS) was acceptable for Dibromoacetic Acid indicating the analytical batch was in control. The MS/MSD outlier suggests a high bias in this matrix. The affected sample is qualified to indicate matrix interference. No further corrective action was taken.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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QCBatch: **MSSj:1225**
Method: **SW-846 8270C**
PrepMethod: **SW-846 3510C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the all the surrogates in samples J1603630001 and S1600495001 are not applicable. The analysis of the samples required a dilution, which results in an undetected surrogate concentration. No further corrective action was required.
The upper control criterion was exceeded for the following surrogate in the method blank for analytical batch 1225: 2-Fluorophenol and Phenol-d6. No target analytes were detected in the method blank. Since the apparent problem equates to a high bias, the data quality is not significantly affected. No further corrective action was required.

The control criteria were exceeded for the following surrogate in 2023954LCS: 2,4,6-Triboromophenol. The associated laboratory control spike recoveries of target compounds were in control or bias high, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: All Navy samples were analyzed at the lowest possible dilution due to background components greater than 60% of the curve's maximum.
The samples J1603630001 and S1600495001 were analyzed at the lowest possible dilution due to the presence of non-target background components.

G. Other:

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QCBatch: **CVAt:1045**
Method: **EPA 245.1**
PrepMethod: **EPA 245.1**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of Hg for T1604644002 and T1604902001 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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QCBatch: **GCSj:1372**
Method: **SW-846 8082A**
PrepMethod: **SW-846 3510C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogates in sample number T1605201001 are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The surrogate yields in the Method Blank 2023760 (MB) and Laboratory Control Sample 2023761 (LCS) were acceptable, which indicates the analytical batch was in control. The low surrogate yields in sample number T1605201001 suggests a potential low bias in this matrix. As physical evidence of the sample matrix interferences, the extract was a light yellow hue, emitted a strong odor, and became emulsive in the solvent layer during the extraction procedure. The affected sample was qualified to indicate matrix interference.

The control criteria for the following surrogates in sample number J1603762001, and its associated matrix QC samples 2025564 (MS) and 2025565 (MSD), are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The low surrogate recoveries in the parent sample were confirmed in the associated matrix QC samples - thereby verifying the sample matrix interference. The J1603762001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

D. Spikes: The matrix spike 2025564 (MS) recovery for analyte Aroclor 1016 in sample J1603762001 was outside control criteria. The matrix spike duplicate 2025565 (MSD) recoveries for analytes Aroclor 1016 and 1260 in sample J1603762001 were outside control criteria.The low spike recoveries were confirmed in the associated matrix spike duplicate - thereby verifying the sample matrix interference. Recoveries in the Laboratory Control Sample 2023761 (LCS) were acceptable, which indicates the analytical batch was in control. The J1603762001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Samples M1601310003 and M1601310004 were acid cleaned as per EPA method 3665a.

The Method Detection Limit (MDL) is elevated for all analytes in sample numbers J1603762001, and its associated matrix QC samples 2025564 (MS) and 2025565 (MSD) because the samples required dilution. The chromatograms indicated the presence of high concentrations of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the MDL. The results were qualified to indicate matrix interference.

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QCBatch: **GCSj:1373**
Method: **EPA 8081**
PrepMethod: **SW-846 3510C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: The upper control criterion was exceeded for the following analytes in one or more of the Continuing Calibration Verification (CCV) standards associated with samples 2024428 (MS), 2024429 (MSD), J1603613002 and S1600495001: delta-BHC, alpha-BHC, and 4,4,'-DDD. The results reported for the client samples J1603613002 and S1600495001 did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for the following surrogates in sample number S1600495001, and its associated matrix QC samples 2024428 (MS) and 2024429 (MSD), are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The low surrogate recoveries in the parent sample were confirmed in the associated matrix QC samples - thereby verifying the sample matrix interference. The S1600495001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

The control criteria for the following surrogate in sample number T1605201001 was not met due to sample matrix interference: Decachlorobiphenyl. The sample became emulsive in the solvent layer during the extraction procedure. Emulsions are known to adversely affect surrogate recoveries. The data were qualified to indicate the sample matrix interference.

The control criteria for the following surrogates in sample number J1603613002 are not applicable: Tetrachloro-m-xylene and Decachlorobiphenyl. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Practical Quantitation Limit (PQL). No further corrective action was required.

D. Spikes: The matrix spike 2024428 (MS) recoveries for multiple spiking analytes in sample S1600495001 were outside control criteria. The low spike recoveries were confirmed in the associated matrix spike duplicate 2024429 (MSD) - thereby verifying the sample matrix interference. Recoveries in the Laboratory Control Sample 2023764 (LCS) were acceptable, which indicates the analytical batch was in control. The S1600495001 and matrix QC extracts were analyzed at a 1:4 dilution due to high concentrations of non-target background components. In addition, the samples became emulsive in the solvent layer during the extraction procedure. The data were qualified to indicate the sample matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: The Method Detection Limit (MDL) is elevated for all analytes in sample numbers S1600495001, and its associated

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

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matrix QC samples 2024428 (MS) and 2024429 (MSD), and J1603613002 because the samples required dilution. The chromatograms indicated the presence of high concentrations of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the MDL. The results were qualified to indicate matrix interference.

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