Columbia Analytical Services
9143 Philips Highway, Jacksonville, FL 32256 | 904-739-2277 | www.caslab.com

December 15, 2011 Service Request No: J1105078

Kirk Wills
Waste Services of Florida, Inc.
11500 43rd Street North
Clearwater, FL 33762

Laboratory Results for: JED SWDF

Dear Kirk,

Enclosed are the results of the sample(s) submitted to our laboratory November 11, 2011
For your reference, these analyses have been assigned our service request number **J1105078.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. If required, the laboratory can provide uncertainty measurements for each method employed in sample analysis; this uncertainty measurement would be generated using method validation studies and the laboratory's quality control data.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1105078
Date Received: 11/11/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/11/11. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Analyses:

Method 8260B: The lower control criterion was exceeded for the following analytes in the Continuing Calibration Verification (CCV): Iodomethane. The analyte in question was not detected in the associated field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Method 8260B: The spike recovery of Styrene for Laboratory Control Sample (LCS) JQ1106713-01 was outside the lower control criterion. The analyte in question was not detected in the associated field samples. The error associated with reduced recovery equates to a potential low bias. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Semi-Volatile Organic Analyses:

Method 8011: The upper control criteria were exceeded for the following analyte in the Continuing Calibration Verification (CCV): 1,2-Dibromo-3-chloropropane. The field samples analyzed in this sequence did not contain the analyte in question above the Method Reporting Limit (MRL). Since the apparent problem equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8011: The control criterion was exceeded for the following surrogate in the Continuing Calibration Verification (CCV): 1,1,1,2 Tetrachloroethane. The surrogate in question was within acceptance criteria for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Method 8011: Due to an inadvertent analyst error, the Matrix Spike and Duplicate Matrix Spike samples were not spiked with the target analytes. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Metals Analyses:

No problems were observed with this delivery group.

General Chemistry Analyses:

Approved by _____ Date 12/15/2011

Method SM 9222 D (Fecal Coliform): The results for sample SW-3 are based on colony counts outside the optimal range of 20-60 CFU. The data has been qualified. This is an informational flag and does not impact the quality of the data.

Method SM 9222 D (Fecal Coliform): Sample SW-4 had too many colonies to count (TNTC). The numeric value reported represents the sample filtration volume.

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Florida Department of Health	E82502	6/30/2012
North Carolina Department of Environment and Natural Resources	527	12/31/2011
Louisiana Department of Environmental Quality	02086	6/30/2012
Kentucky Division of Waste Management	63	7/5/2013
South Carolina Department of Health and Environmental Control	96021001	6/30/2012
Texas Commision on Environmental Quality	T104704197-09-TX	5/31/2012
Maine Department of Health and Human Services	2011006	2/3/2013
Department of Defense	66206	5/11/2012
New York Department of Health	11962	4/1/2012

Data Qualifiers

Florida-DEP

!	Data deviates from historically established concentration ranges
*	Not reported due to interference
?	Data is rejected and should not be used
A	Value reported is the arithmetic mean of two or more determininations
B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
E	Extra samples were taken at composite stations
H	Value based on field kit determination; results may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory PQL.
J	Estimated value.
K	Off scale low. The value is less than the lowest calibration standard.
L	Off scale high. The analyte is above the acceptable level of quantitation.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed
Q	Sample held beyond the acceptable holding time.
R	Significant rain in the past 48 hours (typically in excess of 0.5 inches)
T	Estimated value, less than the MDL
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
X	Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
Y	The laboratory analysis was from an unpreserved or improperly preserved sample.
Z	Too many colonies were present, the numeric value represents the filtration volume

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Waste Services of Florida, Inc. **Service Request:** J1105078
Project: JED SWDF

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1105078-001	SW-3	11/11/2011	0900
J1105078-002	SW-4	11/11/2011	0940
J1105078-003	Trip Blank	11/11/2011	0000

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1105078-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	11/22/11 18:41	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	11/22/11 18:41	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	11/22/11 18:41	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	11/22/11 18:41	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	11/22/11 18:41	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	11/22/11 18:41	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	11/22/11 18:41	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	11/22/11 18:41	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	11/22/11 18:41	
1,2-Dichlorobenzene	ND	U	1.00	0.480	1	11/22/11 18:41	
1,2-Dichloroethane	ND	U	1.00	0.220	1	11/22/11 18:41	
1,2-Dichloropropane	ND	U	1.00	0.190	1	11/22/11 18:41	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	11/22/11 18:41	
2-Butanone (MEK)	ND	U	10.0	3.80	1	11/22/11 18:41	
2-Hexanone	ND	U	25.0	2.20	1	11/22/11 18:41	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	11/22/11 18:41	
Acetone	ND	U	50.0	5.60	1	11/22/11 18:41	
Acrylonitrile	ND	U	10.0	1.50	1	11/22/11 18:41	
Benzene	ND	U	1.00	0.210	1	11/22/11 18:41	
Bromochloromethane	ND	U	5.00	0.270	1	11/22/11 18:41	
Bromodichloromethane	ND	U	1.00	0.220	1	11/22/11 18:41	
Bromoform	ND	U	2.00	0.420	1	11/22/11 18:41	
Bromomethane	ND	U	5.00	0.230	1	11/22/11 18:41	
Carbon Disulfide	ND	U	10.0	2.40	1	11/22/11 18:41	
Carbon Tetrachloride	ND	U	1.00	0.340	1	11/22/11 18:41	
Chlorobenzene	ND	U	1.00	0.160	1	11/22/11 18:41	
Chloroethane	ND	U	5.00	0.520	1	11/22/11 18:41	
Chloroform	ND	U	1.00	0.350	1	11/22/11 18:41	
Chloromethane	ND	U	1.00	0.360	1	11/22/11 18:41	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	11/22/11 18:41	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	11/22/11 18:41	
Dibromochloromethane	ND	U	1.00	0.210	1	11/22/11 18:41	
Dibromomethane	ND	U	5.00	0.360	1	11/22/11 18:41	
Ethylbenzene	ND	U	1.00	0.210	1	11/22/11 18:41	
Iodomethane	ND	U	5.00	2.70	1	11/22/11 18:41	
m,p-Xylenes	ND	U	2.00	0.310	1	11/22/11 18:41	
Methylene Chloride	ND	U	5.00	0.210	1	11/22/11 18:41	
o-Xylene	ND	U	1.00	0.140	1	11/22/11 18:41	
Styrene	ND	U	1.00	0.290	1	11/22/11 18:41	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	11/22/11 18:41	
Toluene	ND	U	1.00	0.190	1	11/22/11 18:41	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	11/22/11 18:41	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	11/22/11 18:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1105078-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	11/22/11 18:41	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	11/22/11 18:41	
Trichlorofluoromethane	ND	U	20.0	0.240	1	11/22/11 18:41	
Vinyl Acetate	ND	U	10.0	1.90	1	11/22/11 18:41	
Vinyl Chloride	ND	U	1.00	0.360	1	11/22/11 18:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	68 - 118	11/22/11 18:41	
4-Bromofluorobenzene	98	78 - 129	11/22/11 18:41	
Dibromofluoromethane	103	80 - 114	11/22/11 18:41	
Toluene-d8	104	87 - 118	11/22/11 18:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1105078-001	**Basis:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.0206	0.00330	1	11/17/11 08:46	11/15/11	
1,2-Dibromoethane (EDB)	ND	U	0.0206	0.0165	1	11/17/11 08:46	11/15/11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	113	77 - 150	11/17/11 08:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Basis:**	NA
Lab Code:	J1105078-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Silver, Total Recoverable	6020	ND	U	ug/L	0.50	0.03	1	11/18/11	11/16/11	
Arsenic, Total Recoverable	6020	ND	U	ug/L	1.0	0.5	1	11/18/11	11/16/11	
Barium, Total Recoverable	6020	**9.1**		ug/L	2.0	0.4	1	11/18/11	11/16/11	
Beryllium, Total Recoverable	6020	ND	U	ug/L	0.50	0.04	1	11/18/11	11/16/11	
Cadmium, Total Recoverable	6020	ND	U	ug/L	0.40	0.12	1	11/18/11	11/16/11	
Cobalt, Total Recoverable	6020	**0.2**	**I**	ug/L	1.0	0.06	1	11/18/11	11/16/11	
Chromium, Total Recoverable	6020	**1.0**	**I**	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Copper, Total Recoverable	6020	**0.6**	**I**	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Iron, Total Recoverable	6010B	**580**		ug/L	100	20	1	11/21/11	11/18/11	
Hardness, Total as CaCO3	SM 2340 B	**14.6**		mg/L	1.7	-	1	NA	NA	
Mercury, Total	7470A	ND	U	ug/L	0.10	0.02	1	11/15/11	11/15/11	
Nickel, Total Recoverable	6020	ND	U	ug/L	2.0	0.8	1	11/18/11	11/16/11	
Lead, Total Recoverable	6020	**0.23**	**I**	ug/L	0.50	0.06	1	11/18/11	11/16/11	
Antimony, Total Recoverable	6020	ND	U	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Selenium, Total Recoverable	6020	ND	U	ug/L	2.0	1.1	1	11/18/11	11/16/11	
Thallium, Total Recoverable	6020	ND	U	ug/L	0.20	0.05	1	11/18/11	11/16/11	
Vanadium, Total Recoverable	6020	**0.7**	**I**	ug/L	2.0	0.4	1	11/18/11	11/16/11	
Zinc, Total Recoverable	6020	**5.9**		ug/L	5.0	0.9	1	11/18/11	11/16/11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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Project:	JED SWDF	**Date Collected:**	11/11/11 09:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Basis:**	NA
Lab Code:	J1105078-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND U	mg/L	2.0	2.0	1	11/11/11	NA	
Chlorophyll a (Monochromatic)	SM 10200 H	**3.8**	mg/m3	2.3	2.3	2.2	11/15/11	11/11/11	
Chemical Oxygen Demand, Total	SM21 5220 D	**66**	mg/L	20	8	1	NA	11/21/11	
Ammonia as Nitrogen, Unionized	FL NH3UnCalc DEP12Feb01V2	ND U	mg/L	0.010	0.010	1	NA	NA	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.03	1	11/11/11	NA	
Solids, Total Dissolved	SM 2540 C	**81**	mg/L	10	10	1	11/15/11	NA	
Nitrogen, Total as Nitrogen	Calculation	**0.92**	mg/L	0.2	-	1	NA	NA	
Carbon, Total Organic (TOC)	SM 5310 B	**18.3**	mg/L	1.0	0.2	1	11/22/11	NA	
Phosphorus, Total	365.1	**0.0302**	mg/L	0.0050	0.0030	1	11/17/11	11/16/11	
Solids, Total Suspended (TSS)	SM 2540 D	ND U	mg/L	5.0	5.0	1	11/15/11	NA	

COLUMBIA ANALYTICAL SERVICES, INC.

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Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-3	**Basis:**	NA
Lab Code:	J1105078-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**25**	**B**	CFU/100mL	1.7	1.7	1.7	11/11/11 14:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J1105078-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	11/22/11 19:12	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	11/22/11 19:12	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	11/22/11 19:12	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	11/22/11 19:12	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	11/22/11 19:12	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	11/22/11 19:12	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	11/22/11 19:12	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	11/22/11 19:12	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	11/22/11 19:12	
1,2-Dichlorobenzene	ND	U	1.00	0.480	1	11/22/11 19:12	
1,2-Dichloroethane	ND	U	1.00	0.220	1	11/22/11 19:12	
1,2-Dichloropropane	ND	U	1.00	0.190	1	11/22/11 19:12	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	11/22/11 19:12	
2-Butanone (MEK)	ND	U	10.0	3.80	1	11/22/11 19:12	
2-Hexanone	ND	U	25.0	2.20	1	11/22/11 19:12	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	11/22/11 19:12	
Acetone	ND	U	50.0	5.60	1	11/22/11 19:12	
Acrylonitrile	ND	U	10.0	1.50	1	11/22/11 19:12	
Benzene	ND	U	1.00	0.210	1	11/22/11 19:12	
Bromochloromethane	ND	U	5.00	0.270	1	11/22/11 19:12	
Bromodichloromethane	ND	U	1.00	0.220	1	11/22/11 19:12	
Bromoform	ND	U	2.00	0.420	1	11/22/11 19:12	
Bromomethane	ND	U	5.00	0.230	1	11/22/11 19:12	
Carbon Disulfide	ND	U	10.0	2.40	1	11/22/11 19:12	
Carbon Tetrachloride	ND	U	1.00	0.340	1	11/22/11 19:12	
Chlorobenzene	ND	U	1.00	0.160	1	11/22/11 19:12	
Chloroethane	ND	U	5.00	0.520	1	11/22/11 19:12	
Chloroform	ND	U	1.00	0.350	1	11/22/11 19:12	
Chloromethane	ND	U	1.00	0.360	1	11/22/11 19:12	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	11/22/11 19:12	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	11/22/11 19:12	
Dibromochloromethane	ND	U	1.00	0.210	1	11/22/11 19:12	
Dibromomethane	ND	U	5.00	0.360	1	11/22/11 19:12	
Ethylbenzene	ND	U	1.00	0.210	1	11/22/11 19:12	
Iodomethane	ND	U	5.00	2.70	1	11/22/11 19:12	
m,p-Xylenes	ND	U	2.00	0.310	1	11/22/11 19:12	
Methylene Chloride	ND	U	5.00	0.210	1	11/22/11 19:12	
o-Xylene	ND	U	1.00	0.140	1	11/22/11 19:12	
Styrene	ND	U	1.00	0.290	1	11/22/11 19:12	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	11/22/11 19:12	
Toluene	ND	U	1.00	0.190	1	11/22/11 19:12	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	11/22/11 19:12	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	11/22/11 19:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J1105078-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	11/22/11 19:12	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	11/22/11 19:12	
Trichlorofluoromethane	ND	U	20.0	0.240	1	11/22/11 19:12	
Vinyl Acetate	ND	U	10.0	1.90	1	11/22/11 19:12	
Vinyl Chloride	ND	U	1.00	0.360	1	11/22/11 19:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	68 - 118	11/22/11 19:12	
4-Bromofluorobenzene	100	78 - 129	11/22/11 19:12	
Dibromofluoromethane	103	80 - 114	11/22/11 19:12	
Toluene-d8	102	87 - 118	11/22/11 19:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J1105078-002	**Basis:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.0205	0.00328	1	11/18/11 11:53	11/15/11	
1,2-Dibromoethane (EDB)	ND	U	0.0205	0.0164	1	11/18/11 11:53	11/15/11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	77 - 150	11/18/11 11:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Basis:**	NA
Lab Code:	J1105078-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Silver, Total Recoverable	6020	ND	U	ug/L	0.50	0.03	1	11/18/11	11/16/11	
Arsenic, Total Recoverable	6020	**0.6**	**I**	ug/L	1.0	0.5	1	11/18/11	11/16/11	
Barium, Total Recoverable	6020	**9.1**		ug/L	2.0	0.4	1	11/18/11	11/16/11	
Beryllium, Total Recoverable	6020	ND	U	ug/L	0.50	0.04	1	11/18/11	11/16/11	
Cadmium, Total Recoverable	6020	ND	U	ug/L	0.40	0.12	1	11/18/11	11/16/11	
Cobalt, Total Recoverable	6020	**0.2**	**I**	ug/L	1.0	0.06	1	11/18/11	11/16/11	
Chromium, Total Recoverable	6020	**1.1**		ug/L	1.0	0.2	1	11/18/11	11/16/11	
Copper, Total Recoverable	6020	**0.5**	**I**	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Iron, Total Recoverable	6010B	**500**		ug/L	100	20	1	11/21/11	11/18/11	
Hardness, Total as CaCO3	SM 2340 B	**9.7**		mg/L	1.7	-	1	NA	NA	
Mercury, Total	7470A	ND	U	ug/L	0.10	0.02	1	11/15/11	11/15/11	
Nickel, Total Recoverable	6020	ND	U	ug/L	2.0	0.8	1	11/18/11	11/16/11	
Lead, Total Recoverable	6020	**0.15**	**I**	ug/L	0.50	0.06	1	11/18/11	11/16/11	
Antimony, Total Recoverable	6020	ND	U	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Selenium, Total Recoverable	6020	ND	U	ug/L	2.0	1.1	1	11/18/11	11/16/11	
Thallium, Total Recoverable	6020	ND	U	ug/L	0.20	0.05	1	11/18/11	11/16/11	
Vanadium, Total Recoverable	6020	**0.8**	**I**	ug/L	2.0	0.4	1	11/18/11	11/16/11	
Zinc, Total Recoverable	6020	**4.4**	**I**	ug/L	5.0	0.9	1	11/18/11	11/16/11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Basis:**	NA
Lab Code:	J1105078-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND U	mg/L	2.0	2.0	1	11/11/11	NA	
Chlorophyll a (Monochromatic)	SM 10200 H	**3.0**	mg/m3	1.1	1.1	1.0	11/15/11	11/11/11	
Chemical Oxygen Demand, Total	SM21 5220 D	**59**	mg/L	20	8	1	NA	11/21/11	
Ammonia as Nitrogen, Unionized	FL NH3UnCalc DEP12Feb01V2	ND U	mg/L	0.010	0.010	1	NA	NA	
Nitrate as Nitrogen	300.0	ND U	mg/L	0.20	0.03	1	11/11/11	NA	
Solids, Total Dissolved	SM 2540 C	**62**	mg/L	10	10	1	11/15/11	NA	
Nitrogen, Total as Nitrogen	Calculation	**0.79**	mg/L	0.2	-	1	NA	NA	
Carbon, Total Organic (TOC)	SM 5310 B	**15.5**	mg/L	1.0	0.2	1	11/22/11	NA	
Phosphorus, Total	365.1	**0.0276**	mg/L	0.0050	0.0030	1	11/17/11	11/16/11	
Solids, Total Suspended (TSS)	SM 2540 D	ND U	mg/L	6.7	6.7	1.3	11/15/11	NA	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 09:40
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	SW-4	**Basis:**	NA
Lab Code:	J1105078-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**Z 10**	**Z**	CFU/100mL	10	10	10	11/11/11 14:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 00:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1105078-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	11/22/11 14:06	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	11/22/11 14:06	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	11/22/11 14:06	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	11/22/11 14:06	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	11/22/11 14:06	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	11/22/11 14:06	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	11/22/11 14:06	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	11/22/11 14:06	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	11/22/11 14:06	
1,2-Dichlorobenzene	ND	U	1.00	0.480	1	11/22/11 14:06	
1,2-Dichloroethane	ND	U	1.00	0.220	1	11/22/11 14:06	
1,2-Dichloropropane	ND	U	1.00	0.190	1	11/22/11 14:06	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	11/22/11 14:06	
2-Butanone (MEK)	ND	U	10.0	3.80	1	11/22/11 14:06	
2-Hexanone	ND	U	25.0	2.20	1	11/22/11 14:06	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	11/22/11 14:06	
Acetone	ND	U	50.0	5.60	1	11/22/11 14:06	
Acrylonitrile	ND	U	10.0	1.50	1	11/22/11 14:06	
Benzene	ND	U	1.00	0.210	1	11/22/11 14:06	
Bromochloromethane	ND	U	5.00	0.270	1	11/22/11 14:06	
Bromodichloromethane	ND	U	1.00	0.220	1	11/22/11 14:06	
Bromoform	ND	U	2.00	0.420	1	11/22/11 14:06	
Bromomethane	ND	U	5.00	0.230	1	11/22/11 14:06	
Carbon Disulfide	ND	U	10.0	2.40	1	11/22/11 14:06	
Carbon Tetrachloride	ND	U	1.00	0.340	1	11/22/11 14:06	
Chlorobenzene	ND	U	1.00	0.160	1	11/22/11 14:06	
Chloroethane	ND	U	5.00	0.520	1	11/22/11 14:06	
Chloroform	ND	U	1.00	0.350	1	11/22/11 14:06	
Chloromethane	ND	U	1.00	0.360	1	11/22/11 14:06	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	11/22/11 14:06	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	11/22/11 14:06	
Dibromochloromethane	ND	U	1.00	0.210	1	11/22/11 14:06	
Dibromomethane	ND	U	5.00	0.360	1	11/22/11 14:06	
Ethylbenzene	ND	U	1.00	0.210	1	11/22/11 14:06	
Iodomethane	ND	U	5.00	2.70	1	11/22/11 14:06	
m,p-Xylenes	ND	U	2.00	0.310	1	11/22/11 14:06	
Methylene Chloride	ND	U	5.00	0.210	1	11/22/11 14:06	
o-Xylene	ND	U	1.00	0.140	1	11/22/11 14:06	
Styrene	ND	U	1.00	0.290	1	11/22/11 14:06	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	11/22/11 14:06	
Toluene	ND	U	1.00	0.190	1	11/22/11 14:06	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	11/22/11 14:06	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	11/22/11 14:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11 00:00
Sample Matrix:	Water	**Date Received:**	11/11/11 14:15
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1105078-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	11/22/11 14:06	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	11/22/11 14:06	
Trichlorofluoromethane	ND	U	20.0	0.240	1	11/22/11 14:06	
Vinyl Acetate	ND	U	10.0	1.90	1	11/22/11 14:06	
Vinyl Chloride	ND	U	1.00	0.360	1	11/22/11 14:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	68 - 118	11/22/11 14:06	
4-Bromofluorobenzene	99	78 - 129	11/22/11 14:06	
Dibromofluoromethane	100	80 - 114	11/22/11 14:06	
Toluene-d8	105	87 - 118	11/22/11 14:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1106713-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	ND	U	1.00	0.190	1	11/22/11 12:05	
1,1,1-Trichloroethane (TCA)	ND	U	1.00	0.170	1	11/22/11 12:05	
1,1,2,2-Tetrachloroethane	ND	U	1.00	0.290	1	11/22/11 12:05	
1,1,2-Trichloroethane	ND	U	1.00	0.400	1	11/22/11 12:05	
1,1-Dichloroethane (1,1-DCA)	ND	U	1.00	0.300	1	11/22/11 12:05	
1,1-Dichloroethene (1,1-DCE)	ND	U	1.00	0.160	1	11/22/11 12:05	
1,2,3-Trichloropropane	ND	U	2.00	0.420	1	11/22/11 12:05	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.00	2.30	1	11/22/11 12:05	
1,2-Dibromoethane (EDB)	ND	U	1.00	0.460	1	11/22/11 12:05	
1,2-Dichlorobenzene	ND	U	1.00	0.480	1	11/22/11 12:05	
1,2-Dichloroethane	ND	U	1.00	0.220	1	11/22/11 12:05	
1,2-Dichloropropane	ND	U	1.00	0.190	1	11/22/11 12:05	
1,4-Dichlorobenzene	ND	U	1.00	0.160	1	11/22/11 12:05	
2-Butanone (MEK)	ND	U	10.0	3.80	1	11/22/11 12:05	
2-Hexanone	ND	U	25.0	2.20	1	11/22/11 12:05	
4-Methyl-2-pentanone (MIBK)	ND	U	25.0	1.10	1	11/22/11 12:05	
Acetone	ND	U	50.0	5.60	1	11/22/11 12:05	
Acrylonitrile	ND	U	10.0	1.50	1	11/22/11 12:05	
Benzene	ND	U	1.00	0.210	1	11/22/11 12:05	
Bromochloromethane	ND	U	5.00	0.270	1	11/22/11 12:05	
Bromodichloromethane	ND	U	1.00	0.220	1	11/22/11 12:05	
Bromoform	ND	U	2.00	0.420	1	11/22/11 12:05	
Bromomethane	ND	U	5.00	0.230	1	11/22/11 12:05	
Carbon Disulfide	ND	U	10.0	2.40	1	11/22/11 12:05	
Carbon Tetrachloride	ND	U	1.00	0.340	1	11/22/11 12:05	
Chlorobenzene	ND	U	1.00	0.160	1	11/22/11 12:05	
Chloroethane	ND	U	5.00	0.520	1	11/22/11 12:05	
Chloroform	ND	U	1.00	0.350	1	11/22/11 12:05	
Chloromethane	ND	U	1.00	0.360	1	11/22/11 12:05	
cis-1,2-Dichloroethene	ND	U	1.00	0.360	1	11/22/11 12:05	
cis-1,3-Dichloropropene	ND	U	1.00	0.200	1	11/22/11 12:05	
Dibromochloromethane	ND	U	1.00	0.210	1	11/22/11 12:05	
Dibromomethane	ND	U	5.00	0.360	1	11/22/11 12:05	
Ethylbenzene	ND	U	1.00	0.210	1	11/22/11 12:05	
Iodomethane	ND	U	5.00	2.70	1	11/22/11 12:05	
m,p-Xylenes	ND	U	2.00	0.310	1	11/22/11 12:05	
Methylene Chloride	ND	U	5.00	0.210	1	11/22/11 12:05	
o-Xylene	ND	U	1.00	0.140	1	11/22/11 12:05	
Styrene	ND	U	1.00	0.290	1	11/22/11 12:05	
Tetrachloroethene (PCE)	ND	U	1.00	0.220	1	11/22/11 12:05	
Toluene	ND	U	1.00	0.190	1	11/22/11 12:05	
trans-1,2-Dichloroethene	ND	U	1.00	0.190	1	11/22/11 12:05	
trans-1,3-Dichloropropene	ND	U	1.00	0.230	1	11/22/11 12:05	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1106713-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	ND	U	20.0	2.20	1	11/22/11 12:05	
Trichloroethene (TCE)	ND	U	1.00	0.360	1	11/22/11 12:05	
Trichlorofluoromethane	ND	U	20.0	0.240	1	11/22/11 12:05	
Vinyl Acetate	ND	U	10.0	1.90	1	11/22/11 12:05	
Vinyl Chloride	ND	U	1.00	0.360	1	11/22/11 12:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	68 - 118	11/22/11 12:05	
4-Bromofluorobenzene	98	78 - 129	11/22/11 12:05	
Dibromofluoromethane	103	80 - 114	11/22/11 12:05	
Toluene-d8	105	87 - 118	11/22/11 12:05	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1106543-01	**Basis:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.0200	0.00320	1	11/17/11 00:29	11/15/11	
1,2-Dibromoethane (EDB)	ND	U	0.0200	0.0160	1	11/17/11 00:29	11/15/11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	107	77 - 150	11/17/11 00:29	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1106544-01	**Basis:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.0200	0.00320	1	11/18/11 10:35	11/15/11	
1,2-Dibromoethane (EDB)	ND	U	0.0200	0.0160	1	11/18/11 10:35	11/15/11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	125	77 - 150	11/18/11 10:35	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1105078-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Silver, Total Recoverable	6020	ND	U	ug/L	0.50	0.03	1	11/18/11	11/16/11	
Arsenic, Total Recoverable	6020	ND	U	ug/L	1.0	0.5	1	11/18/11	11/16/11	
Barium, Total Recoverable	6020	ND	U	ug/L	2.0	0.4	1	11/18/11	11/16/11	
Beryllium, Total Recoverable	6020	ND	U	ug/L	0.50	0.04	1	11/18/11	11/16/11	
Cadmium, Total Recoverable	6020	ND	U	ug/L	0.40	0.12	1	11/18/11	11/16/11	
Cobalt, Total Recoverable	6020	ND	U	ug/L	1.0	0.06	1	11/18/11	11/16/11	
Chromium, Total Recoverable	6020	ND	U	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Copper, Total Recoverable	6020	ND	U	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Iron, Total Recoverable	6010B	ND	U	ug/L	100	20	1	11/21/11	11/18/11	
Mercury, Total	7470A	ND	U	ug/L	0.10	0.02	1	11/15/11	11/15/11	
Nickel, Total Recoverable	6020	ND	U	ug/L	2.0	0.8	1	11/18/11	11/16/11	
Lead, Total Recoverable	6020	ND	U	ug/L	0.50	0.06	1	11/18/11	11/16/11	
Antimony, Total Recoverable	6020	ND	U	ug/L	1.0	0.2	1	11/18/11	11/16/11	
Selenium, Total Recoverable	6020	ND	U	ug/L	2.0	1.1	1	11/18/11	11/16/11	
Thallium, Total Recoverable	6020	ND	U	ug/L	0.20	0.05	1	11/18/11	11/16/11	
Vanadium, Total Recoverable	6020	**0.7**	**I**	ug/L	2.0	0.4	1	11/18/11	11/16/11	
Zinc, Total Recoverable	6020	**1.0**	**I**	ug/L	5.0	0.9	1	11/18/11	11/16/11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1105078-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B	ND	U	mg/L	2.0	2.0	1	11/11/11	NA	
Chlorophyll a (Monochromatic)	SM 10200 H	ND	U	mg/m3	1.0	1.0	1	11/15/11	11/11/11	
Chemical Oxygen Demand, Total	SM21 5220 D	ND	U	mg/L	20	8	1	NA	11/21/11	
Nitrate as Nitrogen	300.0	ND	U	mg/L	0.20	0.03	1	11/11/11	NA	
Solids, Total Dissolved	SM 2540 C	ND	U	mg/L	10	10	1	11/15/11	NA	
Carbon, Total Organic (TOC)	SM 5310 B	**0.3**	**I**	mg/L	1.0	0.2	1	11/22/11	NA	
Phosphorus, Total	365.1	ND	U	mg/L	0.0050	0.0030	1	11/17/11	11/16/11	
Solids, Total Suspended (TSS)	SM 2540 D	ND	U	mg/L	5.0	5.0	1	11/15/11	NA	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1105078-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	ND	U	CFU/100mL	1.0	1.0	1	11/11/11 14:47	

Client: Waste Services of Florida, Inc. **Service Request:** J1105078
Project: JED SWDF
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4 68 - 118	4-Bromofluorobenzene 78 - 129	Dibromofluoromethane 80 - 114
SW-3	J1105078-001	103	98	103
SW-4	J1105078-002	102	100	103
Trip Blank	J1105078-003	100	99	100
Lab Control Sample	JQ1106713-01	102	97	102
Method Blank	JQ1106713-02	101	98	103

Client: Waste Services of Florida, Inc. **Service Request:** J1105078
Project: JED SWDF
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8 87 - 118
SW-3	J1105078-001	104
SW-4	J1105078-002	102
Trip Blank	J1105078-003	105
Lab Control Sample	JQ1106713-01	104
Method Blank	JQ1106713-02	105

Client: Waste Services of Florida, Inc. **Service Request:** J1105078
Project: JED SWDF
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane 77 - 150
SW-3	J1105078-001	113
SW-4	J1105078-002	116
Method Blank	JQ1106543-01	107
Lab Control Sample	JQ1106543-02	98
Method Blank	JQ1106544-01	125
Lab Control Sample	JQ1106544-02	124
SW-4	JQ1106544-03	122
SW-4	JQ1106544-04	128

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc. **Service Request:** J1105078

Project: JED SWDF **Date Analyzed:** 11/22/11

Sample Matrix: Water

Lab Control Sample Summary

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B **Units:** ug/L

Basis: NA

Analysis Lot: 270637

Lab Control Sample

JQ1106713-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	17.2	20.0	86	79-120
1,1,1-Trichloroethane (TCA)	17.6	20.0	88	78-120
1,1,2,2-Tetrachloroethane	16.9	20.0	84	65-137
1,1,2-Trichloroethane	17.1	20.0	85	81-121
1,1-Dichloroethane (1,1-DCA)	17.5	20.0	88	83-119
1,1-Dichloroethene (1,1-DCE)	16.7	20.0	83	79-123
1,2,3-Trichloropropane	17.0	20.0	85	71-129
1,2-Dibromo-3-chloropropane (DBCP)	19.3	20.0	96	36-143
1,2-Dibromoethane (EDB)	17.0	20.0	85	80-122
1,2-Dichlorobenzene	18.5	20.0	93	79-114
1,2-Dichloroethane	18.4	20.0	92	73-120
1,2-Dichloropropane	18.0	20.0	90	86-116
1,4-Dichlorobenzene	18.1	20.0	90	77-117
2-Butanone (MEK)	92.9	100	93	38-152
2-Hexanone	90.2	100	90	63-131
4-Methyl-2-pentanone (MIBK)	91.6	100	92	69-127
Acetone	89.8	100	90	45-157
Acrylonitrile	84.0	100	84	56-139
Benzene	18.0	20.0	90	83-118
Bromochloromethane	17.5	20.0	87	82-117
Bromodichloromethane	17.4	20.0	87	77-120
Bromoform	15.6	20.0	78	38-149
Bromomethane	24.7	20.0	124	78-132
Carbon Disulfide	89.1	100	89	74-132
Carbon Tetrachloride	17.8	20.0	89	67-129
Chlorobenzene	17.0	20.0	85	83-122
Chloroethane	17.8	20.0	89	80-129
Chloroform	18.0	20.0	90	81-118
Chloromethane	17.9	20.0	90	61-138
cis-1,2-Dichloroethene	17.4	20.0	87	74-127
cis-1,3-Dichloropropene	18.6	20.0	93	80-120
Dibromochloromethane	17.1	20.0	86	71-122
Dibromomethane	16.8	20.0	84	73-125
Ethylbenzene	16.6	20.0	83	82-124
Iodomethane	70.3	100	70 *	78-128
m,p-Xylenes	34.2	40.0	86	82-125
Methylene Chloride	16.2	20.0	81	70-134
o-Xylene	16.6	20.0	83	82-122
Styrene	16.1	20.0	81 *	82-123
Tetrachloroethene (PCE)	18.0	20.0	90	77-129
Toluene	17.4	20.0	87	82-122
trans-1,2-Dichloroethene	17.0	20.0	85	81-119

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1105078
Date Analyzed: 11/22/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 270637

Lab Control Sample
JQ1106713-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	17.6	20.0	88	71-124
trans-1,4-Dichloro-2-butene	17.6	20.0	88	10-172
Trichloroethene (TCE)	17.5	20.0	87	81-120
Trichlorofluoromethane	18.5	20.0	93	72-127
Vinyl Acetate	89.9	100	90	50-145
Vinyl Chloride	18.7	20.0	93	72-133

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/18/11

Duplicate Matrix Spike Summary

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Sample Name:	SW-4	**Units:**	ug/L
Lab Code:	J1105078-002	**Basis:**	NA
Analysis Method:	8011		
Prep Method:	Method		

		Matrix Spike JQ1106544-03			**Duplicate Matrix Spike** JQ1106544-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	0.258	0 *	0.00332	0.259	0 *	65-135	<1	30
1,2-Dibromoethane (EDB)	ND	ND	0.258	0 *	0.0166	0.259	0 *	65-135	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc. **Service Request:** J1105078

Project: JED SWDF **Date Analyzed:** 11/17/11

Sample Matrix: Water

Lab Control Sample Summary

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011 **Units:** ug/L

Prep Method: Method **Basis:** NA

Analysis Lot: 269813

Lab Control Sample

JQ1106543-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,2-Dibromo-3-chloropropane (DBCP)	0.273	0.250	109	70-130
1,2-Dibromoethane (EDB)	0.229	0.250	92	70-130

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc. **Service Request:** J1105078

Project: JED SWDF **Date Analyzed:** 11/18/11

Sample Matrix: Water

Lab Control Sample Summary

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011 **Units:** ug/L

Prep Method: Method **Basis:** NA

Analysis Lot: 270260

Lab Control Sample

JQ1106544-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,2-Dibromo-3-chloropropane (DBCP)	0.320	0.250	128	70-130
1,2-Dibromoethane (EDB)	0.281	0.250	113	70-130

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/15/11

Duplicate Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name:	SW-3	**Units:**	ug/L
Lab Code:	J1105078-001	**Basis:**	NA
Analysis Method:	7470A		
Prep Method:	Method		

		Matrix Spike J1105078-001MS			Duplicate Matrix Spike J1105078-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury, Total	ND	1.2	1.25	96	1.2	1.25	94	75-125	2	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1105078
Date Analyzed: 11/15/11 - 11/21/11

Lab Control Sample Summary
Inorganic Parameters

Units: ug/L
Basis: NA

Lab Control Sample
J1105078-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total Recoverable	6020	52.5	50.0	105	80-120
Arsenic, Total Recoverable	6020	52.2	50.0	104	80-120
Barium, Total Recoverable	6020	50.8	50.0	102	80-120
Beryllium, Total Recoverable	6020	49.8	50.0	100	80-120
Cadmium, Total Recoverable	6020	51.0	50.0	102	80-120
Chromium, Total Recoverable	6020	51.9	50.0	104	80-120
Cobalt, Total Recoverable	6020	50.7	50.0	101	80-120
Copper, Total Recoverable	6020	51.4	50.0	103	80-120
Iron, Total Recoverable	6010B	5070	5000	101	91-113
Lead, Total Recoverable	6020	49.4	50.0	99	80-120
Mercury, Total	7470A	1.23	1.25	98	80-120
Nickel, Total Recoverable	6020	50.4	50.0	101	80-120
Selenium, Total Recoverable	6020	53.0	50.0	106	80-120
Silver, Total Recoverable	6020	48.7	50.0	97	80-120
Thallium, Total Recoverable	6020	49.1	50.0	98	80-120
Vanadium, Total Recoverable	6020	50.9	50.0	102	80-120
Zinc, Total Recoverable	6020	106	100	106	80-120

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1105078
Date Analyzed: 11/21/11

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Lab Control Sample
J1105078-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Calcium, Total Recoverable	6010B	5.04	5.00	101	84-125
Magnesium, Total Recoverable	6010B	5.09	5.00	102	89-116

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/15/11

Duplicate Sample Summary

General Chemistry Parameters

Sample Name:	SW-3	**Units:**	mg/m3
Lab Code:	J1105078-001DUP1	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit
Chlorophyll a (Monochromatic)	SM 10200 H	2.3	2.3	3.8	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/17/11 - 11/18/11

Duplicate Sample Summary

General Chemistry Parameters

Sample Name:	SW-3	**Units:**	mg/L
Lab Code:	J1105078-001DUP1	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	0.06	0.92	0.80	0.862	14	20
Phosphorus, Total	365.1	0.0050	0.0030	0.0302	0.0309	0.0306	2	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/15/11

Duplicate Sample Summary

General Chemistry Parameters

Sample Name:	SW-4	**Units:**	mg/L
Lab Code:	J1105078-002DUP2	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit
Solids, Total Dissolved	SM 2540 C	10	10	62	55	58.5	12	20
Solids, Total Suspended (TSS)	SM 2540 D	6.7	6.7	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Waste Services of Florida, Inc.	**Service Request:**	J1105078
Project:	JED SWDF	**Date Collected:**	11/11/11
Sample Matrix:	Water	**Date Received:**	11/11/11
		Date Analyzed:	11/17/11 - 11/18/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name:	SW-3	**Units:**	mg/L
Lab Code:	J1105078-001	**Basis:**	NA

Matrix Spike
J1105078-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Nitrogen, Total Kjeldahl (TKN)	351.2	0.92	5.97	5.00	101	90-110
Phosphorus, Total	365.1	0.0302	0.529	0.500	100	90-110

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1105078
Date Analyzed: 11/11/11 - 11/22/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
J1105078-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	1.01	1.00	101	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B	212	198	107	84.5-115.4
Carbon, Total Organic (TOC)	SM 5310 B	48.2	50.0	96	90-110
Chemical Oxygen Demand, Total	SM21 5220 D	489	500	98	95-105
Nitrate as Nitrogen	300.0	4.68	5.00	94	90-110
Nitrite as Nitrogen	300.0	5.04	5.00	101	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	5.23	5.00	105	90-110
Phosphorus, Total	365.1	0.505	0.500	101	90-110
Solids, Total Dissolved	SM 2540 C	291	300	97	85-115
Solids, Total Suspended (TSS)	SM 2540 D	105	100	105	85-115

Columbia Analytical Services™

Cooler Receipt Form

Client: WSE Service Request #: J1105078

Project: JED SWDF

Cooler received on 11-11-11 and opened on 11-11-11 by JL

COURIER: CAS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	No		
	If yes, how many and where?	#: 1	on lid	other	
2	Were seals intact and signature and date correct?	Yes	No	N/A	
3	Were custody papers properly filled out?	Yes	No	N/A	
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	1.4			
5	Thermometer ID	T71			
6	Temperature Blank Present?	Yes	No		
7	Were Ice or Ice Packs present	Ice	Ice Packs	No	
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A	
9	Type of packing material present	Netting	Vial Holder	Bubble Wrap	
		Paper	Styrofoam	Other	N/A
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A	
11	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A	
12	Were the correct bottles used for the tests indicated?	Yes	No	N/A	
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A	
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2				
	Preservative additions noted below				
14	Were all samples received within analysis holding times?	Yes	No	N/A	
15	Were all VOA vials free of air bubbles? If present, note below	Yes	No	N/A	
16	Where did the bottles originate?	CAS	Client		

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

www.caslab.com

PAGE 1 OF 1

SR # J1105078

CAS Contact

Project Name: JED SWDF

Project Number:

Project Manager: Joe Terry

Email Address: jterry@wsii.us

Company/Address: WSI
11500 43rd St. North
Clearwater, FL 33762

Phone #: 813-943-8633

FAX#:

Sampler's Signature: Joe Terry

Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number a

J1105078
Waste Services of Florida, Inc.
JED SWDF

PRESERVATIVE: 1 0 1 2 3 0 0 7

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	TOC	Metals	NH_3, TKN, Total P, COD	NO_3, NO_2, TDS, TSS, BOD	Chlorophyll A	Fecal Coliform							REMARKS/ ALTERNATE DESCRIPTION
SW-3		11-11-11	0900	SW	13	3	3	2	1	1	1	1	1							
SW-4		11-11-11	0940	SW	13	3	3	2	1	1	1	1	1							
Trip Blank		11-1-11	0930	DI H_2O	2	X														

2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 11315-JED

1.4

See QAPP ☐

SAMPLE RECEIPT: CONDITION/COOLER TEMP: TM

CUSTODY SEALS: Y N

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature: Robert Nicholas	Signature: Robert Nicholas	Signature: Shawn Lightsey	Signature	Signature
Printed Name: Joe Terry	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Shawn Lightsey	Printed Name	Printed Name
Firm: WSI	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 11-11-11/1205	Date/Time: 11/11/11 12:05	Date/Time: 11/11/11 2:15	Date/Time: 11-11-11 1413	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11