



June 29, 2012

Service Request No: J1202829

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 June 15, 2012
For your reference, these analyses have been assigned our service request number **J1202829**.

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. dba ALS Environmental (ALS) 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. dba ALS Environmental

Craig Myers
Project Manager



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Columbia Analytical Services, Inc.

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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	12/31/2012
Virginia Environmental Accreditation Program	460191	12/14/2012
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
Maine Department of Health and Human Services	2011006	2/3/2013
Pennsylvania Department of Environmental Protection	68-04835	7/31/2012
New Jersey Department of Environmental Protection	FL019	6/30/2012

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 determinations
- 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.
Project: JED SWDF

Service Request: J1202829

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1202829-001	MW-11B	6/14/2012	1600
J1202829-002	MW-12A	6/14/2012	1525

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: J1202829
Date Collected: 06/14/12 16:00
Date Received: 06/15/12 09:25

Sample Name: MW-11B
Lab Code: J1202829-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	5.05	1.00	0.210	1	06/15/12 13:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	111	72 - 121	06/15/12 13:54	
4-Bromofluorobenzene	98	86 - 113	06/15/12 13:54	
Dibromofluoromethane	99	86 - 112	06/15/12 13:54	
Toluene-d8	97	88 - 115	06/15/12 13:54	

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Analytical Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1202829-002

Service Request: J1202829
Date Collected: 06/14/12 15:25
Date Received: 06/15/12 09:25
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total Recoverable	6010B	36500	ug/L	100	3	1	06/18/12 20:11	6/18/12	

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Analytical Report

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

Service Request: J1202829
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1203792-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.210 U	1.00	0.210	1	06/15/12 12:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	110	72 - 121	06/15/12 12:59	
4-Bromofluorobenzene	99	86 - 113	06/15/12 12:59	
Dibromofluoromethane	98	86 - 112	06/15/12 12:59	
Toluene-d8	100	88 - 115	06/15/12 12:59	

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Analytical Report

Client: Waste Services of Florida, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1202829-MB

Service Request: J1202829
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total Recoverable	6010B	10 I	ug/L	100	3	1	06/19/12 17:44	6/18/12	

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QA/QC Report

Client: Waste Services of Florida, Inc.**Service Request:** J1202829**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	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-11B	J1202829-001	111	98	99
Lab Control Sample	JQ1203792-03	110	87	101
Method Blank	JQ1203792-04	110	99	98

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QA/QC Report

Client: Waste Services of Florida, Inc.**Service Request:** J1202829**Project:** JED SWDF**Sample Matrix:** Water**SURROGATE RECOVERY SUMMARY**

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-11B	J1202829-001	97
Lab Control Sample	JQ1203792-03	97
Method Blank	JQ1203792-04	100

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QA/QC Report

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

Service Request: J1202829
Date Analyzed: 06/15/12

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L

Basis: NA

Analysis Lot: 296536

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	JQ1203792-03	18.4	20.0	92	80-117

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: J1202829
Date Analyzed: 06/19/12
Date Extracted: 06/18/12

Lab Control Sample Summary
Inorganic Parameters

Analysis Method: 6010B
Prep Method: EPA 3005A

Units: ug/L
Basis: NA
Analysis Lot: 296799

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1202829-LCS	5090	5000	102	80-120



Cooler Receipt Form

Client: WSEService Request #: J1202829Project: JED SMDPCooler received on 6-15-12and opened on 6-15-12 by SCCOURIER: ALS ☒ UPS ☐ FEDEX Client Other _____Airbill # 1240663V2210001447

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/A4 Temperature of cooler(s) upon receipt (Should be $> 0^{\circ}\text{C}$ and $< 6^{\circ}\text{C}$) 1.525 Thermometer ID 781

6 Temperature Blank Present?

☒ Yes ☐ No

7 Were Ice or Ice Packs present?

☒ 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 WrapPaper ☐ 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?

☒ ALS ☐ 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:



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

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SR # **J1202829**

CAS Contact

Project Name JED SWDF		Project Number 5	
Project Manager Joe Terry		Waste Services of Florida, Inc.	
Company/Address WSI		JED SWDF	
11500 43rd St. N		ANALYSIS REQUESTED (Include Method Number at)	
Clearwater, FL 33762		PRESERVATIVE 1 2	
Phone # 813-943-8633		NUMBER OF CONTAINERS	
Fax #		Benzene	
Sampler's Signature Joe Terry		Iron	
Sampler's Printed Name Joe Terry			
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	MATRIX
MW-11B		6.14.12 1600	GW
MW-12A		6.14.12 1525	GW
REMARKS/ALTERNATE DESCRIPTION			
0. NONE			
1. HCL			
2. HNO3			
3. H2SO4			
4. NaOH			
5. Zn Acetate			
6. MeOH			
7. NaHSO4			
8. Other			
SPECIAL INSTRUCTIONS/COMMENTS			
Cook ID: 12166-5ED			
See QAPP <input type="checkbox"/>			
TURNAROUND REQUIREMENTS			
RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD			
REQUESTED FAX DATE			
REQUESTED REPORT DATE			
REPORT REQUIREMENTS			
<input checked="" type="checkbox"/> I. Results Only			
<input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MSMSD as required)			
<input type="checkbox"/> III. Results + QC and Calibration Summaries			
<input type="checkbox"/> IV. Data Validation Report with Raw Data			
<input type="checkbox"/> V. Specialized Forms / Custom Report			
Edits <input type="checkbox"/> Yes <input type="checkbox"/> No			
INVOICE INFORMATION			
PO#			
BILL TO:			
RECEIVED BY			
RELINQUISHED BY			
Signature			
Printed Name			
Firm			
Date/Time			
RECEIVED BY			
RELINQUISHED BY			
Signature			
Printed Name			
Firm			
Date/Time			