RECEIVED
MAY 21 2013
DIVISION OF AIR
RESOURCE MANAGEMENT

Application for Permit Amendment – WWTP Biosolids Processing

Pasco County Resource Recovery Facility

May 2013

PASCO COUNTY, FLORIDA

"Bringing Opportunities Home"

RECEIVED
MAY 21 2013
DIVISION OF AIR
RESOURCE MANAGEMENT

DADE CITY	(352) 523-2411	PASCO COUNTY SOLID WASTE
LAND O' LAKES	(813) 235-6012	RESOURCE RECOVERY FACILITY
SPRING HILL	(727) 856-0119	14230 HAYS ROAD
FAX	(727) 861-3099	SPRING HILL, FL 34610

May 16, 2013

Mr. Scott Sheplak
Air Program Administrator
FDEP, Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SUBJECT: Pasco County Resource Recovery Facility
Title V Permit No. 1010056-008-AV, MWC Nos. 1, 2, and 3
Removal of "sewage sludge" as an Unauthorized Fuel
Project Nos.: 1010056-009-AC
1010056-010-AV

Dear Mr. Sheplak:

Pasco County requests that the Department revise Title V permit conditions A.6(g) by deleting the language "sewage sludge" as an unauthorized fuel.

In support of this request, the permittee is attaching an abbreviated application form and supporting information.

If additional information is needed, please do not hesitate to contact Viet Ta at (727) 919-7671

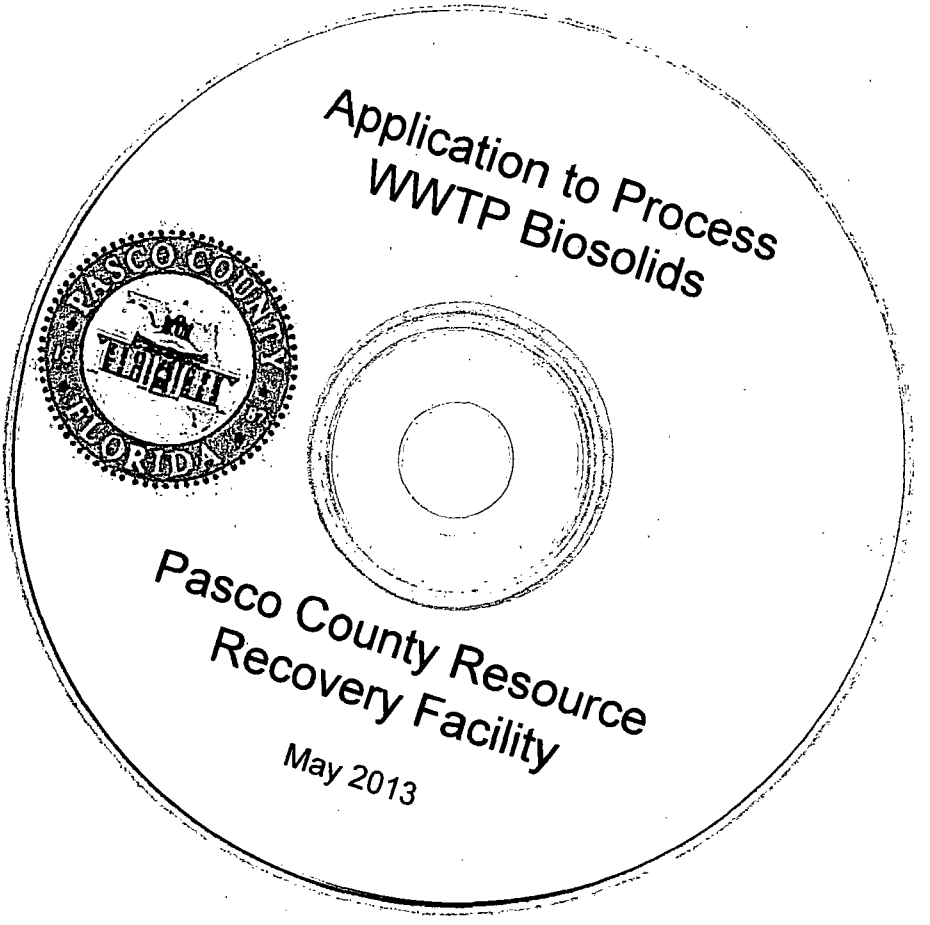
Sincerely,

John Power

John Power
Solid Waste Facility Manager

Enclosure

cc: Jason Gorrie
File


Application to Process
WWTP Biosolids
PASCO COUNTY
FLORIDA
Pasco County Resource
Recovery Facility
May 2013

1. Introduction

Pasco County is proposing to process "sewage sludge" (or, biosolids) generated from the Publically Owned Treatment Works (POTW) owned and operated by Pasco County. The biosolids will be trucked to the Resource Recovery Facility to be mixed with municipal solid waste (MSW) and fed to the municipal waste combustors (MWC). There will be no physical changes made to the Resource Recovery Facility to accommodate biosolids processing. Information obtained from similar MWCs processing biosolids indicates there are no observable changes to regulated air emissions. The Facility will continue to comply with all other permit requirements, including all of the applicable emissions limits and standards in 40 CFR 60 Subparts Cb, Emissions Guidelines and Standards of Performance for Large Municipal Waste Combustors.

The Pasco County Resource Recovery Facility consists of three 350 TPD municipal solid waste combustors Unit Nos. 1, 2, and 3. Each unit capacity is currently limited by the steam production rate of 100,500 pounds per hour based on a 4-hour block average. Each unit is equipped with an auxiliary burner for combustion control, SNCR for NOx control, activated carbon injection for mercury and dioxin control, lime slurry spray dry absorber for acid gas control, and a fabric filter baghouse for particulate matter control. Each unit is continuously monitored for CO, SO_2, NOx, O_2, opacity, steam load, baghouse inlet temperature, and carbon injection rate. The facility nominal processing capacity is 1,050 tons/day of MSW fuel. The gross nominal electric generating capacity of the facility is 31 megawatts (MW). The facility is owned by Pasco County and is currently operated by Covanta Pasco, Inc. a subsidiary of Covanta Energy Corporation.

The proposed biosolids feed rate is up to 5% of the MWCs' total daily capacity of 1,050 tons (i.e. up to 50 tons per day of biosolids). The term biosolids means solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Biosolids includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; and a material derived from sewage sludge. Biosolids does not include grit and screenings generated during preliminary treatment of domestic sewage in a treatment works. The biosolids that Pasco County proposes to utilize for fuel will be limited to those generated by the County's advanced secondary wastewater treatment facilities. APPENDIX A contains laboratory report of the biosolids sample collected on 11/6/12 from Pasco County Shady Hills POTW.

2. Regulatory Analyses

2.1 40 CFR 60 Subpart Cb, Emissions Guidelines and Standards of Performance for Large Municipal Waste Combustors That are Constructed on or Before September 20,1994: The three existing MWCs will continue to be subjected to Subpart Cb while processing biosolids at the proposed feed rate.

2.2 40 CFR 60 Subpart Eb, Emissions Guidelines and Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for which Modification or Reconstruction is Commenced after June 19, 1996: The three existing MWCs are not subjected to Subpart Eb while processing biosolids because no modification or reconstruction is required in order for the MWC to process biosolids.

2.3 40 CFR 60, Subpart LLLL-Standards of Performance for New Sewage Biosolids Incineration (SSI) Units and 40 CFR 60, Subpart MMMM-Emission Guidelines and Compliance Times for Existing SSI Units: Subparts LLLL and MMMM were developed under the authority of Section 129 of the Clean Air Act Amendments of 1990. Because the three existing MWC units are subject to other Section 129 standards (namely, Subpart Cb), Subparts LLLL and MMMM are not applicable (see 76 FR 15376).

2.4 PSD New Source Review: The three existing MWCs are located in attainment area for all pollutants. They are considered "major stationary source" because these MWCs have charging rate above 250 TPD and belonging to the list of specifically delineated source categories ("List of 28") which emits or has the potential to emit 100 tpy or more of any PSD pollutant. Because no physical change is taking place, and because stack testing at a similar facility has demonstrated that the emissions will be unchanged, PSD is not applicable.

2.5 40 CFR 61, Subpart E-National Emission Standards for mercury:

2.5.1 Per Section 61.50: the three existing MWCs are subject to Subpart E upon commencement of biosolids processing because feeding biosolids to the MWC is akin to incineration.

2.5.2 Per Section 61.52(b): emissions to the atmosphere from biosolids incineration plants shall not exceed 3.2 kg (7.1 lb) of mercury per 24-hour period.

2.5.3 Per Section 61.53(d):

(1) Unless a waiver of emission testing is obtained under § 61.13, each owner or operator of a source subject to the standard in § 61.52(b) shall test emissions from that source. Such tests shall be conducted in accordance with the procedures set forth either in paragraph (d) of this section or in § 61.54.

(2) Method 101A in appendix B to this part shall be used to test emissions as follows:

(i) The test shall be performed within 90 days of the effective date of these regulations in the case of an existing source or a new source which has an initial startup date preceding the effective date.

(ii) The test shall be performed within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(3) The Administrator shall be notified at least 30 days prior to an emission test, so that he may at his option observe the test.

(4) Samples shall be taken over such a period or periods as are necessary to determine accurately the maximum emissions which will occur in a 24-hour period. No changes shall be made in the operation which would potentially increase emissions above the level determined by the most recent stack test, until the new emission level has been estimated by calculation and the results reported to the Administrator.

(5) All samples shall be analyzed and mercury emissions shall be determined within 30 days after the stack test. Each determination shall be reported to the Administrator by a registered letter dispatched within 15 calendar days following the date such determination is completed.

(6) Records of emission test results and other data needed to determine total emissions shall be retained at the source and shall be made available, for inspection by the Administrator, for a minimum of 2 years.

Since the applicant conducts annual stack testing for mercury in accordance with the requirement in Subpart Cb, the applicant requests approval of emission testing under 40 CFR 61, Subpart A, §**61**.13(h)(1)(**ii**), which states: *Emission tests shall be conducted as set forth in this section, the applicable subpart and appendix B unless the Administrator: (ii) Approves the use of an alternative method;*

3.0 Operation

Biosolids with solid contents of at least 12 percent will be trucked from Pasco County owned wastewater treatment plants. The biosolids will be directly offloaded into the refuse storage bunker along with municipal solid waste. The crane operators will mix the biosolids and MSW to achieve a homogenous fuel. The crane operators will pick up the mixed fuel and feed it directly into the boiler feed hoppers.

4.0 Biosolids analyses

Appendix A contains analytical data for biosolids sample taken on 11/6/12 from Pasco County's Shady Hills WWTP. Table 4 shows analytical results of pertinent data.

Table 4. Shady Hills POTW biosolids sample 11/6/12

Total solids, % by weight	15.79
Concentration, mg/kg dry	
Hg	0.71
Cd	2.7
Pb	46

At the proposed maximum biosolids feed rate of 50 tons per day, the quantity of the three pollutants from the biosolids enter the facility is shown in Table 5.

Table 5. miligrams of pollutants enter facility daily from 50 tons of biosolids

Pollutant	(mg)
Hg	5096
Cd	19379
Pb	330155

At the assumed air pollution control efficiency of 95%, the quantity of the three pollutants emit the facility is shown in Table 6.

Table 6. miligrams of pollutants emit the facility daily from 50 tons of biosolids

Pollutant	(mg)
Hg	255
Cd	969
Pb	16508

The total daily stack gas flow in cubic meters calculated from the May 2012 stack air flow is shown in Table 7.

Table 7. Total daily stack gas flow, cubic meters

May-12	dscfm	dscmm	dscmd
Unit 1	48484	1373	1976518
Unit 2	49834	1411	2031553
Unit 3	49394	1398	2013616
	Total daily stack gas flow, cubic meters		**6021686**

The theoretical increased concentration of the three pollutants to the atmosphere due to biosolids feed rate of 50 tons per day is shown in Table 8.

Table 8. Theoretical concentration of pollutants in stack gas due to 50 tons of biosolids

Pollutant	(mg/dscm)
Hg	0.00004
Cd	0.00016
Pb	0.00274

The May 2012 average concentration of the three pollutants calculated as the average of the result of the 3 MWCs is shown in Table 9.

Table 9. May 2012 stack test results

May-12	Hg (mg/dscm)	Cd (mg/dscm)	Pb (mg/dscm)
Unit 1	0.00547	0.00038	0.00392
Unit 2	0.00342	0.00016	0.00159
Unit 3	0.00784	0.00017	0.00215
Ave	**0.00558**	**0.00024**	**0.00255**

Table 10 below is a summary of the concentration the three pollutants. Column A shows the increased concentration due to biosolids. Column B shows the concentration during the May 2012 stack tests. Column C shows the combined concentration from MSW and biosolids. Column D shows the Title V Air permit limit concentrations.

Table 10. Emission summary

	A	B	C	D
Pollutant	Worst-case predicted increase (mg/dscm)	2012 results (mg/dscm)	combined mg/dscm	limit mg/dscm
Hg	0.00004	0.00558	0.00562	0.050
Cd	0.00016	0.00024	0.00040	0.035
Pb	0.00274	0.00255	0.00529	0.400

A review of the data in columns C and D shows that the predicted stack concentrations will be well below the Permit emissions limits.

Conclusion:

The conservative mass balance approach outlined above predicts that there will be no appreciable increase in emissions from the combustion of biosolids. Emissions testing undertaken by the Lee County Resource Recovery Facility in 2012 (while combusting biosolids) demonstrated the negligible impact on emissions (see APPENDIX B).

Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

RECEIVED
MAY 21 2013
DIVISION OF AIR RESOURCE MANAGEMENT

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Pasco County	
2. Site Name: Pasco County Resource Recovery Facility	
3. Facility Identification Number: 1010056	
4. Facility Location... Street Address: 14230 Hays Road City: Spring Hill County: Pasco Zip Code: 34610	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: Viet Ta
2. Application Contact Mailing Address... Organization/Firm: Covanta Pasco, Inc. Street Address: 14230 Hays Road City: Spring Hill County: Pasco Zip Code: 34610
3. Application Contact Telephone Numbers... Telephone: (727) 919 - 7671 ext. Fax: (727) 856 - 0007
4. Application Contact Email Address: vta@covantaenergy.com

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 5-21-2013	3. PSD Number (if applicable):
2. Project Number(s): 1010056-009-AC 1010056-010-AV	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

☐ Air construction permit.

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

☐ Initial Title V air operation permit.

☐ Title V air operation permit revision.

☐ Title V air operation permit renewal.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

☒ Air construction permit and Title V permit revision, incorporating the proposed project.

☐ Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

☒ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Pasco County is proposing to process "sewage sludge" generated from the Publically Owned Treatment Works (POTW) owned and operated by Pasco County in the Resource Recovery Facility municipal waste combustors. Pasco County requests that the Department revise Title V permit conditions **A.6**(g) by deleting the language "sewage sludge" as an unauthorized fuel. The total quantity of "sewage sludge" (also referred to as "biosolids") combusted at the facility will not exceed 5% by weight of the total waste combusted, as measured on a daily basis.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
001	Municipal Waste Combustor – Unit 1	AF2A	NA
002	Municipal Waste Combustor – Unit 2	AF2A	NA
003	Municipal Waste Combustor – Unit 3	AF2A	NA

Application Processing Fee

Check one: ☐ Attached - Amount: $_____ ☒ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name : John Power

2. Owner/Authorized Representative Mailing Address...
   Organization/Firm: Pasco County
   Street Address: 14230 Hays Road
   City: Spring Hill State: FL Zip Code: 34760

3. Owner/Authorized Representative Telephone Numbers...
   Telephone: (727) 856 - 0119 Fax:

4. Owner/Authorized Representative E-mail Address: jpower@pascocountyfl.net

5. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.

John Power
Signature

5/16/13
Date

APPLICATION INFORMATION

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: John Power

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

- ☐ For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.
- ☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
- ☒ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
- ☐ The designated representative at an Acid Rain source or CAIR source.

3. Application Responsible Official Mailing Address...
Organization/Firm: Pasco County
Street Address: 14230 Hays Road
City: Spring Hill State: FL Zip Code: 34760

4. Application Responsible Official Telephone Numbers...
Telephone: (727) 856 - 0119 Fax:

5. Application Responsible Official Email Address: jpower@pascocountyfl.net

APPLICATION INFORMATION

6. Application Responsible Official Certification:

I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

John Bowler — Signature

5/16/13 — Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Jason M. Gorrie
   Registration Number: 55341
2. Professional Engineer Mailing Address...
   Organization/Firm: Covanta Energy
   Street Address: 350 N. Falkenberg Road
   City: Tampa State: FL Zip Code: 33619
3. Professional Engineer Telephone Numbers...
   Telephone: 813-684-5688 ext. 3015 Fax: (727) 856 - 0007
4. Professional Engineer Email Address: jgorrie@covantaenergy.com
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here ☒, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here ☐, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature (seal) Date: 8/14/2013

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 347.11 North (km) 3139.21		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 282212 Longitude (DD/MM/SS) 823336	
3. Governmental Facility Code: 3	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4953
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Viet Ta
2. Facility Contact Mailing Address... Organization/Firm: Covanta Pasco, Inc. Street Address: 14230 Hays Road City: Spring Hill State: FL Zip Code: 34760
3. Facility Contact Telephone Numbers: Telephone: (727) 919 - 7671 Fax: (727) 856 - 0007
4. Facility Contact Email Address: vta@covantaenergy.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: Fax:
4. Facility Primary Responsible Official E-mail Address: bcrispell@covantaenergy.com

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☒ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☒ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☒ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☒ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
CO	A	N
DIOX	B	N
H027 (Cd)	B	N
H106 (HCl)	A	N
H114 (Hg)	B	N
NOX	A	N
PB	B	N
PM	A	N
SO2	A	N

APPENDIX A

Biosolids and WWTP Influent Analytical Data

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Laboratory Report

Project Name **Priority Pollutants-Shady Hills WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213017-01**
Date/Time Collected	**11/06/12 08:30**
Collected by	**Client**
Date/Time Received	**11/07/12 14:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/kg dry	5.6 U	EPA 8260	15	5.6	11/08/12 09:00	11/08/12 17:14	1
1,1,2,2-Tetrachloroethane	ug/kg dry	3.7 U	EPA 8260	15	3.7	11/08/12 09:00	11/08/12 17:14	1
1,1,2-Trichloroethane	ug/kg dry	5.4 U	EPA 8260	15	5.4	11/08/12 09:00	11/08/12 17:14	1
1,1-Dichloroethane	ug/kg dry	2.4 U	EPA 8260	15	2.4	11/08/12 09:00	11/08/12 17:14	1
1,1-Dichloroethene	ug/kg dry	10 U	EPA 8260	15	10	11/08/12 09:00	11/08/12 17:14	1
1,2-Dichlorobenzene	ug/kg dry	4.5 U	EPA 8260	15	4.5	11/08/12 09:00	11/08/12 17:14	1
1,2-Dichloroethane	ug/kg dry	4.5 U	EPA 8260	15	4.5	11/08/12 09:00	11/08/12 17:14	1
1,2-Dichloropropane	ug/kg dry	5.2 U	EPA 8260	15	5.2	11/08/12 09:00	11/08/12 17:14	1
1,3-Dichlorobenzene	ug/kg dry	2.4 U	EPA 8260	15	2.4	11/08/12 09:00	11/08/12 17:14	1
1,4-Dichlorobenzene	ug/kg dry	13 I	EPA 8260	15	4.3	11/08/12 09:00	11/08/12 17:14	1
2-Chloroethylvinyl Ether	ug/kg dry	19 U	EPA 8260	74	19	11/08/12 09:00	11/08/12 17:14	1
Acrolein	ug/kg dry	110 U,J5	EPA 8260	190	110	11/08/12 09:00	11/08/12 17:14	1
Acrylonitrile	ug/kg dry	37 U,J5	EPA 8260	74	37	11/08/12 09:00	11/08/12 17:14	1
Benzene	ug/kg dry	3.4 U	EPA 8260	15	3.4	11/08/12 09:00	11/08/12 17:14	1
Bromodichloromethane	ug/kg dry	5.2 U,J5	EPA 8260	15	5.2	11/08/12 09:00	11/08/12 17:14	1
Bromoform	ug/kg dry	5.6 U,J5	EPA 8260	15	5.6	11/08/12 09:00	11/08/12 17:14	1
Bromomethane	ug/kg dry	15 U	EPA 8260	15	15	11/08/12 09:00	11/08/12 17:14	1
Carbon tetrachloride	ug/kg dry	4.8 U,J5	EPA 8260	15	4.8	11/08/12 09:00	11/08/12 17:14	1
Chlorobenzene	ug/kg dry	2.6 U	EPA 8260	15	2.6	11/08/12 09:00	11/08/12 17:14	1
Chloroethane	ug/kg dry	28 U	EPA 8260	30	28	11/08/12 09:00	11/08/12 17:14	1
Chloroform	ug/kg dry	5.0 U	EPA 8260	15	5.0	11/08/12 09:00	11/08/12 17:14	1
Chloromethane	ug/kg dry	28 U	EPA 8260	30	28	11/08/12 09:00	11/08/12 17:14	1
cis-1,2-Dichloroethene	ug/kg dry	2.8 U	EPA 8260	15	2.8	11/08/12 09:00	11/08/12 17:14	1
cis-1,3-Dichloropropene	ug/kg dry	3.9 U,J5	EPA 8260	15	3.9	11/08/12 09:00	11/08/12 17:14	1
Dibromochloromethane	ug/kg dry	4.7 U,J5	EPA 8260	15	4.7	11/08/12 09:00	11/08/12 17:14	1
Ethylbenzene	ug/kg dry	5.8 U	EPA 8260	15	5.8	11/08/12 09:00	11/08/12 17:14	1
Methylene Chloride	ug/kg dry	5.0 U	EPA 8260	30	5.0	11/08/12 09:00	11/08/12 17:14	1
Tetrachloroethene	ug/kg dry	7.3 U	EPA 8260	15	7.3	11/08/12 09:00	11/08/12 17:14	1
Toluene	ug/kg dry	4.1 U	EPA 8260	15	4.1	11/08/12 09:00	11/08/12 17:14	1
trans-1,2-Dichloroethene	ug/kg dry	4.7 U	EPA 8260	15	4.7	11/08/12 09:00	11/08/12 17:14	1
trans-1,3-Dichloropropene	ug/kg dry	6.0 U,J5	EPA 8260	15	6.0	11/08/12 09:00	11/08/12 17:14	1
Trichloroethene	ug/kg dry	3.9 U	EPA 8260	15	3.9	11/08/12 09:00	11/08/12 17:14	1
Vinyl chloride	ug/kg dry	20 U	EPA 8260	30	20	11/08/12 09:00	11/08/12 17:14	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Laboratory Report

Project Name **Priority Pollutants-Shady Hills WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213017-01**
Date/Time Collected	**11/06/12 08:30**
Collected by	**Client**
Date/Time Received	**11/07/12 14:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*97 %*	*Limits*	*65-135*				
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*136 %*	*Limits*	*65-135*		*Note:*		*J0*
Surrogate for EPA 8260	*Dibromofluoromethane*	*98 %*	*Limits*	*65-135*				
Surrogate for EPA 8260	*Toluene-d8*	*114 %*	*Limits*	*65-135*				
Organo Chlorine Pesticides								
4,4'-DDD	ug/kg dry	1.4 U	EPA 8081	6.6	1.4	11/15/12 16:10	12/13/12 23:39	1
4,4'-DDE	ug/kg dry	1.1 U,J5	EPA 8081	6.6	1.1	11/15/12 16:10	12/13/12 23:39	1
4,4'-DDT	ug/kg dry	1.6 U,J5	EPA 8081	6.6	1.6	11/15/12 16:10	12/13/12 23:39	1
Aldrin	ug/kg dry	1.6 U	EPA 8081	6.6	1.6	11/15/12 16:10	12/13/12 23:39	1
alpha-BHC	ug/kg dry	3.8 U,J5	EPA 8081	6.6	3.8	11/15/12 16:10	12/13/12 23:39	1
beta-BHC	ug/kg dry	1.6 U,J5	EPA 8081	6.6	1.6	11/15/12 16:10	12/13/12 23:39	1
Chlordane	ug/kg dry	17 U	EPA 8081	33	17	11/15/12 16:10	12/13/12 23:39	1
delta-BHC	ug/kg dry	0.93 U,J5	EPA 8081	6.6	0.93	11/15/12 16:10	12/13/12 23:39	1
Dieldrin	ug/kg dry	0.86 U	EPA 8081	6.6	0.86	11/15/12 16:10	12/13/12 23:39	1
Endosulfan I	ug/kg dry	0.66 U,J5	EPA 8081	6.6	0.66	11/15/12 16:10	12/13/12 23:39	1
Endosulfan II	ug/kg dry	1.1 U,J5	EPA 8081	6.6	1.1	11/15/12 16:10	12/13/12 23:39	1
Endosulfan sulfate	ug/kg dry	0.60 U,J5	EPA 8081	6.6	0.60	11/15/12 16:10	12/13/12 23:39	1
Endrin	ug/kg dry	0.93 U,J5	EPA 8081	6.6	0.93	11/15/12 16:10	12/13/12 23:39	1
Endrin Aldehyde	ug/kg dry	1.0 U,J5	EPA 8081	6.6	1.0	11/15/12 16:10	12/13/12 23:39	1
Endrin ketone	ug/kg dry	1.1 U,J5	EPA 8081	6.6	1.1	11/15/12 16:10	12/13/12 23:39	1
gamma-BHC	ug/kg dry	1.1 U	EPA 8081	6.6	1.1	11/15/12 16:10	12/13/12 23:39	1
Heptachlor	ug/kg dry	1.8 U,J5	EPA 8081	6.6	1.8	11/15/12 16:10	12/13/12 23:39	1
Heptachlor epoxide	ug/kg dry	1.1 U,J5	EPA 8081	6.6	1.1	11/15/12 16:10	12/13/12 23:39	1
Methoxychlor	ug/kg dry	9.3 U,J5	EPA 8081	27	9.3	11/15/12 16:10	12/13/12 23:39	1
Toxaphene	ug/kg dry	130 U,J5	EPA 8081	330	130	11/15/12 16:10	12/13/12 23:39	1
Surrogate for EPA 8081	*Decachlorobiphenyl*	*82 %*	*Limits*	*20-149*				
Surrogate for EPA 8081	*Tetrachloro-meta-xylene*	*66 %*	*Limits*	*18-158*				
Polychlorinated Biphenyls (PCBs)								
PCB-1016	ug/kg dry	15 U	EPA 8082	33	15	11/15/12 16:14	12/17/12 13:37	1
PCB-1221	ug/kg dry	52 U	EPA 8082	66	52	11/15/12 16:14	12/17/12 13:37	1
PCB-1232	ug/kg dry	24 U	EPA 8082	33	24	11/15/12 16:14	12/17/12 13:37	1
PCB-1242	ug/kg dry	17 U	EPA 8082	33	17	11/15/12 16:14	12/17/12 13:37	1
PCB-1248	ug/kg dry	23 U	EPA 8082	33	23	11/15/12 16:14	12/17/12 13:37	1
PCB-1254	ug/kg dry	11 U	EPA 8082	33	11	11/15/12 16:14	12/17/12 13:37	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Laboratory Report

Project Name	**Priority Pollutants-Shady Hills WWTF**
Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213017-01**
Date/Time Collected	**11/06/12 08:30**
Collected by	**Client**
Date/Time Received	**11/07/12 14:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
PCB-1260	ug/kg dry	8.0 U	EPA 8082	33	8.0	11/15/12 16:14	12/17/12 13:37	1
Surrogate for EPA 8082	*Decachlorobiphenyl*	*76 %*	*Limits*	*20-149*				
Surrogate for EPA 8082	*Tetrachloro-meta-xylene*	*86 %*	*Limits*	*24-121*				
Base/Neutral and Acid Extractable Organic Compounds								
1,2,4-Trichlorobenzene	ug/kg dry	360 U	EPA 8270	1300	360	11/15/12 15:49	11/15/12 19:46	1
1,2-Dichlorobenzene	ug/kg dry	320 U	EPA 8270	1300	320	11/15/12 15:49	11/15/12 19:46	1
1,2-Diphenylhydrazine as Azobenz	ug/kg dry	1000 U	EPA 8270	1300	1000	11/15/12 15:49	11/15/12 19:46	1
1,3-Dichlorobenzene	ug/kg dry	410 U	EPA 8270	1300	410	11/15/12 15:49	11/15/12 19:46	1
1,4-Dichlorobenzene	ug/kg dry	470 U	EPA 8270	1300	470	11/15/12 15:49	11/15/12 19:46	1
2,4,6-Trichlorophenol	ug/kg dry	630 U	EPA 8270	3100	630	11/15/12 15:49	11/15/12 19:46	1
2,4-Dichlorophenol	ug/kg dry	380 U	EPA 8270	1300	380	11/15/12 15:49	11/15/12 19:46	1
2,4-Dimethylphenol	ug/kg dry	560 U	EPA 8270	1300	560	11/15/12 15:49	11/15/12 19:46	1
2,4-Dinitrophenol	ug/kg dry	480 U	EPA 8270	6300	480	11/15/12 15:49	11/15/12 19:46	1
2,4-Dinitrotoluene	ug/kg dry	540 U	EPA 8270	3100	540	11/15/12 15:49	11/15/12 19:46	1
2,6-Dinitrotoluene	ug/kg dry	630 U	EPA 8270**	3100	630	11/15/12 15:49	11/15/12 19:46	1
2-Chloronaphthalene	ug/kg dry	570 U	EPA 8270	1300	570	11/15/12 15:49	11/15/12 19:46	1
2-Chlorophenol	ug/kg dry	450 U	EPA 8270	1300	450	11/15/12 15:49	11/15/12 19:46	1
2-Nitrophenol	ug/kg dry	450 U	EPA 8270	3100	450	11/15/12 15:49	11/15/12 19:46	1
3,3-Dichlorobenzidine	ug/kg dry	1000 U	EPA 8270	6300	1000	11/15/12 15:49	11/15/12 19:46	1
4,6-Dinitro-2-methylphenol	ug/kg dry	290 U	EPA 8270	3100	290	11/15/12 15:49	11/15/12 19:46	1
4-Bromophenyl phenyl ether	ug/kg dry	480 U	EPA 8270	1300	480	11/15/12 15:49	11/15/12 19:46	1
4-Chloro-3-methylphenol	ug/kg dry	460 U	EPA 8270	3100	460	11/15/12 15:49	11/15/12 19:46	1
4-Chlorophenyl phenyl ether	ug/kg dry	940 U	EPA 8270	1300	940	11/15/12 15:49	11/15/12 19:46	1
4-Nitrophenol	ug/kg dry	480 U	EPA 8270	6300	480	11/15/12 15:49	11/15/12 19:46	1
Acenaphthene	ug/kg dry	230 U	EPA 8270	1300	230	11/15/12 15:49	11/15/12 19:46	1
Acenaphthylene	ug/kg dry	390 U	EPA 8270	1300	390	11/15/12 15:49	11/15/12 19:46	1
Anthracene	ug/kg dry	390 U	EPA 8270	1300	390	11/15/12 15:49	11/15/12 19:46	1
Benzidine	ug/kg dry	750 U	EPA 8270	3100	750	11/15/12 15:49	11/15/12 19:46	1
Benzo(a)anthracene	ug/kg dry	210 U	EPA 8270	1300	210	11/15/12 15:49	11/15/12 19:46	1
Benzo(a)pyrene	ug/kg dry	190 U	EPA 8270	1300	190	11/15/12 15:49	11/15/12 19:46	1
Benzo(b)fluoranthene	ug/kg dry	140 U	EPA 8270	1300	140	11/15/12 15:49	11/15/12 19:46	1
Benzo(g,h,i)perylene	ug/kg dry	360 U	EPA 8270	3100	360	11/15/12 15:49	11/15/12 19:46	1
Benzo(k)fluoranthene	ug/kg dry	280 U	EPA 8270	1300	280	11/15/12 15:49	11/15/12 19:46	1
Bis(2-chloroethoxy)methane	ug/kg dry	550 U	EPA 8270	1300	550	11/15/12 15:49	11/15/12 19:46	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Laboratory Report

Project Name **Priority Pollutants-Shady Hills WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213017-01**
Date/Time Collected	**11/06/12 08:30**
Collected by	**Client**
Date/Time Received	**11/07/12 14:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-chloroethyl)ether	ug/kg dry	560 U	EPA 8270	1300	560	11/15/12 15:49	11/15/12 19:46	1
Bis(2-chloroisopropyl) ether	ug/kg dry	270 U	EPA 8270	1300	270	11/15/12 15:49	11/15/12 19:46	1
Bis(2-ethylhexyl)phthalate	ug/kg dry	7,500	EPA 8270	3100	210	11/15/12 15:49	11/15/12 19:46	1
Butyl benzyl phthalate	ug/kg dry	230 U	EPA 8270	3100	230	11/15/12 15:49	11/15/12 19:46	1
Chrysene	ug/kg dry	110 U	EPA 8270	1300	110	11/15/12 15:49	11/15/12 19:46	1
Dibenzo(a,h)anthracene	ug/kg dry	500 U	EPA 8270	3100	500	11/15/12 15:49	11/15/12 19:46	1
Diethyl phthalate	ug/kg dry	750 U	EPA 8270	1300	750	11/15/12 15:49	11/15/12 19:46	1
Dimethylphthalate	ug/kg dry	250 U	EPA 8270	1300	250	11/15/12 15:49	11/15/12 19:46	1
Di-n-butyl phthalate	ug/kg dry	270 U	EPA 8270**	3100	270	11/15/12 15:49	11/15/12 19:46	1
Di-n-octylphthalate	ug/kg dry	260 U	EPA 8270**	6300	260	11/15/12 15:49	11/15/12 19:46	1
Fluoranthene	ug/kg dry	240 U	EPA 8270	1300	240	11/15/12 15:49	11/15/12 19:46	1
Fluorene	ug/kg dry	750 U	EPA 8270	1300	750	11/15/12 15:49	11/15/12 19:46	1
Hexachlorobenzene	ug/kg dry	510 U	EPA 8270	1300	510	11/15/12 15:49	11/15/12 19:46	1
Hexachlorobutadiene	ug/kg dry	600 U	EPA 8270	1300	600	11/15/12 15:49	11/15/12 19:46	1
Hexachlorocyclopentadiene	ug/kg dry	940 U	EPA 8270	1300	940	11/15/12 15:49	11/15/12 19:46	1
Hexachloroethane	ug/kg dry	880 U	EPA 8270	1300	880	11/15/12 15:49	11/15/12 19:46	1
Indeno(1,2,3-cd)pyrene	ug/kg dry	360 U	EPA 8270	3100	360	11/15/12 15:49	11/15/12 19:46	1
Isophorone	ug/kg dry	690 U	EPA 8270	1300	690	11/15/12 15:49	11/15/12 19:46	1
Naphthalene	ug/kg dry	250 U	EPA 8270	1300	250	11/15/12 15:49	11/15/12 19:46	1
Nitrobenzene	ug/kg dry	560 U	EPA 8270	1300	560	11/15/12 15:49	11/15/12 19:46	1
N-Nitrosodimethylamine	ug/kg dry	940 U	EPA 8270	3100	940	11/15/12 15:49	11/15/12 19:46	1
N-Nitrosodi-n-propylamine	ug/kg dry	1900 U	EPA 8270	6300	1900	11/15/12 15:49	11/15/12 19:46	1
N-Nitrosodiphenylamine	ug/kg dry	750 U	EPA 8270	3100	750	11/15/12 15:49	11/15/12 19:46	1
Pentachlorophenol	ug/kg dry	490 U	EPA 8270	6300	490	11/15/12 15:49	11/15/12 19:46	1
Phenanthrene	ug/kg dry	280 U	EPA 8270	1300	280	11/15/12 15:49	11/15/12 19:46	1
Phenol	ug/kg dry	440 U	EPA 8270	1300	440	11/15/12 15:49	11/15/12 19:46	1
Pyrene	ug/kg dry	300 U	EPA 8270	1300	300	11/15/12 15:49	11/15/12 19:46	1
Surrogate for EPA 8270	*2,4,6-Tribromophenol*		*85 %*	*Limits*	*10-123*			
Surrogate for EPA 8270	*2-Fluorobiphenyl*		*69 %*	*Limits*	*43-116*			
Surrogate for EPA 8270	*2-Fluorophenol*		*76 %*	*Limits*	*21-110*			
Surrogate for EPA 8270	*Nitrobenzene-d5*		*69 %*	*Limits*	*35-114*			
Surrogate for EPA 8270	*Phenol-d5*		*73 %*	*Limits*	*40-100*			
Surrogate for EPA 8270	*Terphenyl-d14*		*80 %*	*Limits*	*33-141*			
Inorganics								
Cyanide	mg/kg dry	0.63	EPA 9010**	0.020	0.0050	11/13/12 09:05	11/13/12 11:23	1

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Laboratory Report

Project Name	**Priority Pollutants-Shady Hills WWTF**
Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213017-01**
Date/Time Collected	**11/06/12 08:30**
Collected by	**Client**
Date/Time Received	**11/07/12 14:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Phenolics	mg/kg dry	95 U	EPA 9065**	630	95	11/13/12 09:36	11/13/12 13:32	1
Total Solids	% by wt	15.79	EPA 160.3/SM 2540G	0.01	0.01	11/08/12 13:37	11/09/12 15:04	1
Metals								
Antimony	mg/kg dry	1.1 U	EPA 6010	4.2	1.1	11/13/12 13:48	11/14/12 16:57	1
Arsenic	mg/kg dry	4.6	EPA 6010	4.2	1.1	11/13/12 13:48	11/14/12 16:57	1
Beryllium	mg/kg dry	0.11	EPA 6010	0.042	0.011	11/13/12 13:48	11/14/12 16:57	1
Cadmium	mg/kg dry	2.7	EPA 6010	0.42	0.11	11/13/12 13:48	11/14/12 16:57	1
Chromium	mg/kg dry	32	EPA 6010	1.7	0.42	11/13/12 13:48	11/14/12 16:57	1
Copper	mg/kg dry	1,000	EPA 6010	13	3.2	11/13/12 13:48	11/15/12 12:18	10
Lead	mg/kg dry	46	EPA 6010	4.2	1.1	11/13/12 13:48	11/14/12 16:57	1
Mercury	mg/kg dry	0.71 I	EPA 7471	0.84	0.04	11/14/12 08:32	11/14/12 11:49	1
Nickel	mg/kg dry	17	EPA 6010	0.42	0.11	11/13/12 13:48	11/14/12 16:57	1
Selenium	mg/kg dry	19 I	EPA 6010	21	5.3	11/13/12 13:48	11/14/12 16:57	1
Silver	mg/kg dry	6.0	EPA 6010	0.42	0.11	11/13/12 13:48	11/14/12 16:57	1
Thallium	mg/kg dry	0.53 U	EPA 6010	2.1	0.53	11/13/12 13:48	11/14/12 16:57	1
Zinc	mg/kg dry	930	EPA 6010	1.3	0.32	11/13/12 13:48	11/14/12 16:57	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK20819 - VOC - Prep										
Blank (BK20819-BLK1)					Prepared & Analyzed: 11/08/12					
Acrolein	6.0 U	10	6.0	ug/kg wet						
Acrylonitrile	2.0 U	4.0	2.0	ug/kg wet						
Benzene	0.2 U	0.8	0.2	ug/kg wet						
Bromodichloromethane	0.3 U	0.8	0.3	ug/kg wet						
Bromoform	0.3 U	0.8	0.3	ug/kg wet						
Bromomethane	0.8 U	0.8	0.8	ug/kg wet						
Carbon tetrachloride	0.3 U	0.8	0.3	ug/kg wet						
Chlorobenzene	0.1 U	0.8	0.1	ug/kg wet						
Chloroethane	1.5 U	1.6	1.5	ug/kg wet						
2-Chloroethylvinyl Ether	1.0 U	4.0	1.0	ug/kg wet						
Chloroform	0.3 U	0.8	0.3	ug/kg wet						
Chloromethane	1.5 U	1.6	1.5	ug/kg wet						
Dibromochloromethane	0.2 U	0.8	0.2	ug/kg wet						
1,3-Dichlorobenzene	0.1 U	0.8	0.1	ug/kg wet						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/kg wet						
1,1-Dichloroethane	0.1 U	0.8	0.1	ug/kg wet						
1,2-Dichloroethane	0.2 U	0.8	0.2	ug/kg wet						
1,1-Dichloroethene	0.6 U	0.8	0.6	ug/kg wet						
cis-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/kg wet						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/kg wet						
1,2-Dichloropropane	0.3 U	0.8	0.3	ug/kg wet						
1,2-Dichlorobenzene	0.2 U	0.8	0.2	ug/kg wet						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/kg wet						
trans-1,3-Dichloropropene	0.3 U	0.8	0.3	ug/kg wet						
Ethylbenzene	0.3 U	0.8	0.3	ug/kg wet						
Methylene Chloride	0.3 U	1.6	0.3	ug/kg wet						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/kg wet						
Tetrachloroethene	0.4 U	0.8	0.4	ug/kg wet						
Toluene	0.2 U	0.8	0.2	ug/kg wet						
1,1,1-Trichloroethane	0.3 U	0.8	0.3	ug/kg wet						
1,1,2-Trichloroethane	0.3 U	0.8	0.3	ug/kg wet						
Trichloroethene	0.2 U	0.8	0.2	ug/kg wet						
Vinyl chloride	1.1 U	1.6	1.1	ug/kg wet						
Surrogate: 4-Bromofluorobenzene	*Result: 20.4*			*ug/L*	*20*		*102*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 19.3*			*ug/L*	*20*		*96*	*65-135*		
Surrogate: Toluene-d8	*Result: 20.5*			*ug/L*	*20*		*102*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 19.8*			*ug/L*	*20*		*99*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK20819 - VOC - Prep										
LCS (BK20819-BS1)					Prepared & Analyzed: 11/08/12					
Acrolein	105	10	6.0	ug/kg wet	100		105	70-130		
Acrylonitrile	98.0	4.0	2.0	ug/kg wet	100		98	70-130		
Benzene	19.4	0.8	0.2	ug/kg wet	20		97	70-130		
Bromodichloromethane	18.9	0.8	0.3	ug/kg wet	20		95	70-130		
Bromoform	18.5	0.8	0.3	ug/kg wet	20		93	70-130		
Bromomethane	42.4	0.8	0.8	ug/kg wet	40		106	70-130		
Carbon tetrachloride	18.5	0.8	0.3	ug/kg wet	20		92	70-130		
Chlorobenzene	19.7	0.8	0.1	ug/kg wet	20		98	70-130		
Chloroethane	40.7	1.6	1.5	ug/kg wet	40		102	70-130		
2-Chloroethylvinyl Ether	36.9	4.0	1.0	ug/kg wet	40		92	70-130		
Chloroform	18.9	0.8	0.3	ug/kg wet	20		95	70-130		
Chloromethane	46.0	1.6	1.5	ug/kg wet	40		115	70-130		
Dibromochloromethane	19.2	0.8	0.2	ug/kg wet	20		96	70-130		
1,3-Dichlorobenzene	19.3	0.8	0.1	ug/kg wet	20		96	70-130		
1,4-Dichlorobenzene	19.3	0.8	0.2	ug/kg wet	20		97	70-130		
1,1-Dichloroethane	19.3	0.8	0.1	ug/kg wet	20		96	70-130		
1,2-Dichloroethane	18.8	0.8	0.2	ug/kg wet	20		94	70-130		
1,1-Dichloroethene	19.4	0.8	0.6	ug/kg wet	20		97	70-130		
cis-1,2-Dichloroethene	19.5	0.8	0.2	ug/kg wet	20		98	70-130		
trans-1,2-Dichloroethene	19.7	0.8	0.2	ug/kg wet	20		99	70-130		
1,2-Dichloropropane	20.2	0.8	0.3	ug/kg wet	20		101	70-130		
1,2-Dichlorobenzene	19.5	0.8	0.2	ug/kg wet	20		98	70-130		
cis-1,3-Dichloropropene	19.1	0.8	0.2	ug/kg wet	20		95	70-130		
trans-1,3-Dichloropropene	19.7	0.8	0.3	ug/kg wet	20		98	70-130		
Ethylbenzene	19.0	0.8	0.3	ug/kg wet	20		95	70-130		
Methylene Chloride	18.6	1.6	0.3	ug/kg wet	20		93	70-130		
1,1,2,2-Tetrachloroethane	19.6	0.8	0.2	ug/kg wet	20		98	70-130		
Tetrachloroethene	19.4	0.8	0.4	ug/kg wet	20		97	70-130		
Toluene	19.5	0.8	0.2	ug/kg wet	20		97	70-130		
1,1,1-Trichloroethane	18.4	0.8	0.3	ug/kg wet	20		92	70-130		
1,1,2-Trichloroethane	20.1	0.8	0.3	ug/kg wet	20		101	70-130		
Trichloroethene	19.3	0.8	0.2	ug/kg wet	20		97	70-130		
Vinyl chloride	42.2	1.6	1.1	ug/kg wet	40		106	70-130		
Surrogate: 4-Bromofluorobenzene	*Result: 20.2*			*ug/L*	*20*		*101*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 19.7*			*ug/L*	*20*		*98*	*65-135*		
Surrogate: Toluene-d8	*Result: 20.1*			*ug/L*	*20*		*100*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 19.2*			*ug/L*	*20*		*96*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK20819 - VOC - Prep										
Matrix Spike (BK20819-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/08/12					
Acrolein	110 U,J2	190	110	ug/kg dry	1900	ND		2-140		
Acrylonitrile	183 J2	74	37	ug/kg dry	1900	ND	10	50-150		
Benzene	415	15	3.4	ug/kg dry	370	ND	111	65-135		
Bromodichloromethane	145 J2	15	5.2	ug/kg dry	370	ND	39	60-135		
Bromoform	87.0 J2	15	5.6	ug/kg dry	370	ND	23	45-150		
Bromomethane	379	15	15	ug/kg dry	740	ND	51	10-180		
Carbon tetrachloride	177 J2	15	4.8	ug/kg dry	370	ND	47	55-145		
Chlorobenzene	403	15	2.6	ug/kg dry	370	ND	108	65-130		
Chloroethane	699	30	28	ug/kg dry	740	ND	94	20-175		
2-Chloroethylvinyl Ether	632	74	19	ug/kg dry	740	ND	85	65-135		
Chloroform	423	15	5.0	ug/kg dry	370	ND	114	65-135		
Chloromethane	721	30	28	ug/kg dry	740	ND	97	40-140		
Dibromochloromethane	126 J2	15	4.7	ug/kg dry	370	ND	34	55-140		
1,3-Dichlorobenzene	396	15	2.4	ug/kg dry	370	ND	106	65-135		
1,4-Dichlorobenzene	423	15	4.3	ug/kg dry	370	13.1	110	65-135		
1,1-Dichloroethane	424	15	2.4	ug/kg dry	370	ND	114	65-135		
1,2-Dichloroethane	359	15	4.5	ug/kg dry	370	ND	96	60-145		
1,1-Dichloroethene	415	15	10	ug/kg dry	370	ND	111	55-150		
cis-1,2-Dichloroethene	418	15	2.8	ug/kg dry	370	ND	112	55-135		
trans-1,2-Dichloroethene	432	15	4.7	ug/kg dry	370	ND	116	55-145		
1,2-Dichloropropane	419	15	5.2	ug/kg dry	370	ND	113	65-125		
1,2-Dichlorobenzene	360	15	4.5	ug/kg dry	370	ND	97	65-135		
cis-1,3-Dichloropropene	94.3 J2	15	3.9	ug/kg dry	370	ND	25	65-135		
trans-1,3-Dichloropropene	129 J2	15	6.0	ug/kg dry	370	ND	35	55-140		
Ethylbenzene	358	15	5.8	ug/kg dry	370	ND	96	65-135		
Methylene Chloride	547	30	5.0	ug/kg dry	370	ND	147	40-155		
1,1,2,2-Tetrachloroethane	331	15	3.7	ug/kg dry	370	ND	89	40-145		
Tetrachloroethene	360	15	7.3	ug/kg dry	370	ND	97	55-150		
Toluene	444	15	4.1	ug/kg dry	370	ND	119	60-135		
1,1,1-Trichloroethane	367	15	5.6	ug/kg dry	370	ND	99	55-145		
1,1,2-Trichloroethane	490	15	5.4	ug/kg dry	370	ND	132	50-140		
Trichloroethene	395	15	3.9	ug/kg dry	370	ND	106	70-130		
Vinyl chloride	799	30	20	ug/kg dry	740	ND	107	45-140		
Surrogate: 4-Bromofluorobenzene	*Result: 26.6*			*ug/L*	*20*		*133*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 20.4*			*ug/L*	*20*		*102*	*65-135*		
Surrogate: Toluene-d8	*Result: 22.9*			*ug/L*	*20*		*115*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 19.7*			*ug/L*	*20*		*98*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK20819 - VOC - Prep										
Matrix Spike Dup (BK20819-MSD1)		**Source: 1213017-01**		Prepared & Analyzed: 11/08/12						
Acrolein	110 U,J2	190	110	ug/kg dry	1900	ND		2-140		40
Acrylonitrile	2,020 J2	74	37	ug/kg dry	1900	ND	108	50-150	167	40
Benzene	411	15	3.4	ug/kg dry	370	ND	110	65-135	1	40
Bromodichloromethane	124 J2	15	5.2	ug/kg dry	370	ND	33	60-135	15	40
Bromoform	59.3 J2	15	5.6	ug/kg dry	370	ND	16	45-150	38	40
Bromomethane	344	15	15	ug/kg dry	740	ND	46	10-180	10	40
Carbon tetrachloride	156 J2	15	4.8	ug/kg dry	370	ND	42	55-145	12	40
Chlorobenzene	410	15	2.6	ug/kg dry	370	ND	110	65-130	2	40
Chloroethane	806	30	28	ug/kg dry	740	ND	108	20-175	14	40
2-Chloroethylvinyl Ether	648	74	19	ug/kg dry	740	ND	87	65-135	2	40
Chloroform	413	15	5.0	ug/kg dry	370	ND	111	65-135	2	40
Chloromethane	671	30	28	ug/kg dry	740	ND	90	40-140	7	40
Dibromochloromethane	102 J2	15	4.7	ug/kg dry	370	ND	27	55-140	21	40
1,3-Dichlorobenzene	402	15	2.4	ug/kg dry	370	ND	108	65-135	2	40
1,4-Dichlorobenzene	424	15	4.3	ug/kg dry	370	13.1	110	65-135	0.2	40
1,1-Dichloroethane	423	15	2.4	ug/kg dry	370	ND	114	65-135	0.07	40
1,2-Dichloroethane	344	15	4.5	ug/kg dry	370	ND	92	60-145	4	40
1,1-Dichloroethene	443	15	10	ug/kg dry	370	ND	119	55-150	7	40
cis-1,2-Dichloroethene	415	15	2.8	ug/kg dry	370	ND	111	55-135	0.8	40
trans-1,2-Dichloroethene	440	15	4.7	ug/kg dry	370	ND	118	55-145	2	40
1,2-Dichloropropane	411	15	5.2	ug/kg dry	370	ND	110	65-125	2	40
1,2-Dichlorobenzene	355	15	4.5	ug/kg dry	370	ND	95	65-135	1	40
cis-1,3-Dichloropropene	80.0 J2	15	3.9	ug/kg dry	370	ND	21	65-135	16	40
trans-1,3-Dichloropropene	104 J2	15	6.0	ug/kg dry	370	ND	28	55-140	21	40
Ethylbenzene	362	15	5.8	ug/kg dry	370	ND	97	65-135	1	40
Methylene Chloride	547	30	5.0	ug/kg dry	370	ND	147	40-155	0.01	40
1,1,2,2-Tetrachloroethane	331	15	3.7	ug/kg dry	370	ND	89	40-145	0.1	40
Tetrachloroethene	357	15	7.3	ug/kg dry	370	ND	96	55-150	1	40
Toluene	444	15	4.1	ug/kg dry	370	ND	119	60-135	0.007	40
1,1,1-Trichloroethane	368	15	5.6	ug/kg dry	370	ND	99	55-145	0.3	40
1,1,2-Trichloroethane	475	15	5.4	ug/kg dry	370	ND	128	50-140	3	40
Trichloroethene	386	15	3.9	ug/kg dry	370	ND	104	70-130	2	40
Vinyl chloride	768	30	20	ug/kg dry	740	ND	103	45-140	4	40
Surrogate: 4-Bromofluorobenzene	*Result: 27.50*			*ug/L*	*20*		*138*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 20.5*			*ug/L*	*20*		*102*	*65-135*		
Surrogate: Toluene-d8	*Result: 23.3*			*ug/L*	*20*		*117*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 19.0*			*ug/L*	*20*		*95*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21540 - Pesticides by EPA 8011										
Blank (BK21540-BLK1)					Prepared: 11/15/12 Analyzed: 12/13/12					
Aldrin	0.24 U	1.0	0.24	ug/kg wet						
alpha-BHC	0.57 U	1.0	0.57	ug/kg wet						
beta-BHC	0.24 U	1.0	0.24	ug/kg wet						
delta-BHC	0.14 U	1.0	0.14	ug/kg wet						
gamma-BHC	0.17 U	1.0	0.17	ug/kg wet						
Chlordane	2.5 U	5.0	2.5	ug/kg wet						
4,4'-DDD	0.21 U	1.0	0.21	ug/kg wet						
4,4'-DDE	0.16 U	1.0	0.16	ug/kg wet						
4,4'-DDT	0.24 U	1.0	0.24	ug/kg wet						
Dieldrin	0.13 U	1.0	0.13	ug/kg wet						
Endosulfan I	0.10 U	1.0	0.10	ug/kg wet						
Endosulfan II	0.17 U	1.0	0.17	ug/kg wet						
Endosulfan sulfate	0.090 U	1.0	0.090	ug/kg wet						
Endrin	0.14 U	1.0	0.14	ug/kg wet						
Endrin Aldehyde	0.15 U	1.0	0.15	ug/kg wet						
Endrin ketone	0.16 U	1.0	0.16	ug/kg wet						
Heptachlor	0.27 U	1.0	0.27	ug/kg wet						
Heptachlor epoxide	0.16 U	1.0	0.16	ug/kg wet						
Methoxychlor	1.4 U	4.0	1.4	ug/kg wet						
Toxaphene	20 U	50	20	ug/kg wet						
Surrogate: Decachlorobiphenyl	*Result: 9.7*			*ug/kg wet*	*10*		*97*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 8.7*			*ug/kg wet*	*10*		*87*	*18-158*		
LCS (BK21540-BS1)					Prepared: 11/15/12 Analyzed: 12/13/12					
Aldrin	8.4	1.0	0.24	ug/kg wet	10		84	55-116		
alpha-BHC	7.7	1.0	0.57	ug/kg wet	10		77	53-118		
beta-BHC	7.8	1.0	0.24	ug/kg wet	10		78	65-115		
delta-BHC	6.5	1.0	0.14	ug/kg wet	10		65	26-141		
gamma-BHC	7.8	1.0	0.17	ug/kg wet	10		78	56-121		
4,4'-DDD	8.6	1.0	0.21	ug/kg wet	10		86	78-107		
4,4'-DDE	8.2	1.0	0.16	ug/kg wet	10		82	71-113		
4,4'-DDT	7.4	1.0	0.24	ug/kg wet	10		74	62-141		
Dieldrin	8.4	1.0	0.13	ug/kg wet	10		84	71-115		
Endosulfan I	8.2	1.0	0.10	ug/kg wet	10		82	58-122		
Endosulfan II	7.9	1.0	0.17	ug/kg wet	10		79	58-130		
Endosulfan sulfate	8.7	1.0	0.090	ug/kg wet	10		87	67-119		
Endrin	8.5	1.0	0.14	ug/kg wet	10		85	70-114		
Endrin Aldehyde	8.4	1.0	0.15	ug/kg wet	10		84	70-115		
Endrin ketone	9.1	1.0	0.16	ug/kg wet	10		91	65-126		
Heptachlor	7.9	1.0	0.27	ug/kg wet	10		79	62-121		
Heptachlor epoxide	8.0	1.0	0.16	ug/kg wet	10		80	68-113		
Methoxychlor	34	4.0	1.4	ug/kg wet	40		85	61-130		
Surrogate: Decachlorobiphenyl	*Result: 9.9*			*ug/kg wet*	*10*		*99*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 7.9*			*ug/kg wet*	*10*		*79*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21540 - Pesticides by EPA 8011										
Matrix Spike (BK21540-MS1)		**Source: 1213017-01**			Prepared: 11/15/12 Analyzed: 12/13/12					
Aldrin	27	6.3	1.5	ug/kg dry	63	ND	43	40-121		
alpha-BHC	48	6.3	3.6	ug/kg dry	63	ND	75	63-110		
beta-BHC	43	6.3	1.5	ug/kg dry	63	ND	68	49-125		
delta-BHC	45	6.3	0.88	ug/kg dry	63	ND	71	57-108		
gamma-BHC	37	6.3	1.1	ug/kg dry	63	ND	59	56-121		
4,4'-DDD	60	6.3	1.3	ug/kg dry	63	ND	96	42-142		
4,4'-DDE	52	6.3	1.0	ug/kg dry	63	ND	82	50-126		
4,4'-DDT	41	6.3	1.5	ug/kg dry	63	ND	64	34-147		
Dieldrin	62	6.3	0.82	ug/kg dry	63	ND	98	64-123		
Endosulfan I	46	6.3	0.63	ug/kg dry	63	ND	72	52-130		
Endosulfan II	59	6.3	1.1	ug/kg dry	63	ND	94	44-135		
Endosulfan sulfate	50	6.3	0.57	ug/kg dry	63	ND	79	39-147		
Endrin	59	6.3	0.88	ug/kg dry	63	ND	93	26-162		
Endrin Aldehyde	50	6.3	0.95	ug/kg dry	63	ND	79	25-111		
Endrin ketone	47	6.3	1.0	ug/kg dry	63	ND	74	70-130		
Heptachlor	22	6.3	1.7	ug/kg dry	63	ND	34	32-143		
Heptachlor epoxide	51	6.3	1.0	ug/kg dry	63	ND	82	48-127		
Methoxychlor	170	25	8.8	ug/kg dry	250	ND	68	15-175		
Surrogate: Decachlorobiphenyl		*Result: 66*		*ug/kg dry*	*63*		*106*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 65*		*ug/kg dry*	*63*		*104*	*18-158*		
Matrix Spike Dup (BK21540-MSD1)		**Source: 1213017-01**			Prepared: 11/15/12 Analyzed: 12/13/12					
Aldrin	33	6.3	1.5	ug/kg dry	63	ND	52	40-121	19	35
alpha-BHC	30 J2,J3	6.3	3.6	ug/kg dry	63	ND	48	63-110	44	37
beta-BHC	35 J3	6.3	1.5	ug/kg dry	63	ND	55	49-125	21	18
delta-BHC	34 J2	6.3	0.88	ug/kg dry	63	ND	54	57-108	26	32
gamma-BHC	46	6.3	1.1	ug/kg dry	63	ND	73	56-121	22	23
4,4'-DDD	55	6.3	1.3	ug/kg dry	63	ND	88	42-142	8	32
4,4'-DDE	30 J2,J3	6.3	1.0	ug/kg dry	63	ND	47	50-126	53	33
4,4'-DDT	21 J2,J3	6.3	1.5	ug/kg dry	63	ND	33	34-147	66	34
Dieldrin	46	6.3	0.82	ug/kg dry	63	ND	73	64-123	29	48
Endosulfan I	32 J2,J3	6.3	0.63	ug/kg dry	63	ND	51	52-130	34	29
Endosulfan II	35 J3	6.3	1.1	ug/kg dry	63	ND	56	44-135	51	41
Endosulfan sulfate	24 J2,J3	6.3	0.57	ug/kg dry	63	ND	38	39-147	69	48
Endrin	32 J3	6.3	0.88	ug/kg dry	63	ND	51	26-162	57	35
Endrin Aldehyde	20 J3	6.3	0.95	ug/kg dry	63	ND	31	25-111	87	60
Endrin ketone	62 J3	6.3	1.0	ug/kg dry	63	ND	98	70-130	28	20
Heptachlor	37 J3	6.3	1.7	ug/kg dry	63	ND	59	32-143	53	30
Heptachlor epoxide	34 J3	6.3	1.0	ug/kg dry	63	ND	54	48-127	41	32
Methoxychlor	91 J3	25	8.8	ug/kg dry	250	ND	36	15-175	61	45
Surrogate: Decachlorobiphenyl		*Result: 44*		*ug/kg dry*	*63*		*70*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 36*		*ug/kg dry*	*63*		*57*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Polychlorinated Biphenyls (PCBs) - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21541 - Extraction for PCBs by EPA 8082										
Blank (BK21541-BLK1)				Prepared: 11/15/12 Analyzed: 12/17/12						
PCB-1016	2.2 U	5.0	2.2	ug/kg wet						
PCB-1221	7.8 U	10	7.8	ug/kg wet						
PCB-1232	3.6 U	5.0	3.6	ug/kg wet						
PCB-1242	2.5 U	5.0	2.5	ug/kg wet						
PCB-1248	3.5 U	5.0	3.5	ug/kg wet						
PCB-1254	1.6 U	5.0	1.6	ug/kg wet						
PCB-1260	1.2 U	5.0	1.2	ug/kg wet						
Surrogate: Tetrachloro-meta-xylene		*Result: 8.7*		*ug/kg wet*	*10*		*87*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 5.4*		*ug/kg wet*	*10*		*54*	*20-149*		
LCS (BK21541-BS1)				Prepared: 11/15/12 Analyzed: 12/17/12						
PCB-1016	100	5.0	2.2	ug/kg wet	100		102	25-145		
PCB-1260	120	5.0	1.2	ug/kg wet	100		124	30-145		
Surrogate: Tetrachloro-meta-xylene		*Result: 9.0*		*ug/kg wet*	*10*		*90*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 11*		*ug/kg wet*	*10*		*106*	*20-149*		
Matrix Spike (BK21541-MS1)		**Source: 1213017-01**		Prepared: 11/15/12 Analyzed: 12/17/12						
PCB-1016	570	32	14	ug/kg dry	630	ND	90	25-145		
PCB-1260	650	32	7.6	ug/kg dry	630	ND	103	30-145		
Surrogate: Tetrachloro-meta-xylene		*Result: 45*		*ug/kg dry*	*63*		*72*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 52*		*ug/kg dry*	*63*		*83*	*20-149*		
Matrix Spike Dup (BK21541-MSD1)		**Source: 1213017-01**		Prepared: 11/15/12 Analyzed: 12/17/12						
PCB-1016	610	32	14	ug/kg dry	630	ND	97	25-145	8	20
PCB-1260	220	32	7.6	ug/kg dry	630	ND	35	30-145	99	19
Surrogate: Tetrachloro-meta-xylene		*Result: 45*		*ug/kg dry*	*63*		*71*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 54*		*ug/kg dry*	*63*		*86*	*20-149*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
Blank (BK21537-BLK1)					Prepared & Analyzed: 11/15/12					
Acenaphthene	36 U	200	36	ug/kg wet						
Acenaphthylene	62 U	200	62	ug/kg wet						
Anthracene	62 U	200	62	ug/kg wet						
Benzidine	120 U	500	120	ug/kg wet						
Benzo(a)anthracene	34 U	200	34	ug/kg wet						
Benzo(b)fluoranthene	22 U	200	22	ug/kg wet						
Benzo(k)fluoranthene	45 U	200	45	ug/kg wet						
Benzo(g,h,i)perylene	57 U	500	57	ug/kg wet						
Benzo(a)pyrene	31 U	200	31	ug/kg wet						
Bis(2-chloroethoxy)methane	88 U	200	88	ug/kg wet						
Bis(2-chloroethyl)ether	89 U	200	89	ug/kg wet						
Bis(2-chloroisopropyl) ether	43 U	200	43	ug/kg wet						
Bis(2-ethylhexyl)phthalate	33 U	500	33	ug/kg wet						
4-Bromophenyl phenyl ether	76 U	200	76	ug/kg wet						
Butyl benzyl phthalate	36 U	500	36	ug/kg wet						
4-Chloro-3-methylphenol	74 U	500	74	ug/kg wet						
2-Chloronaphthalene	91 U	200	91	ug/kg wet						
2-Chlorophenol	71 U	200	71	ug/kg wet						
4-Chlorophenyl phenyl ether	150 U	200	150	ug/kg wet						
Chrysene	18 U	200	18	ug/kg wet						
Dibenzo(a,h)anthracene	80 U	500	80	ug/kg wet						
Di-n-butyl phthalate	43 U	500	43	ug/kg wet						
Di-n-octylphthalate	42 U	1000	42	ug/kg wet						
1,2-Dichlorobenzene	51 U	200	51	ug/kg wet						
1,3-Dichlorobenzene	65 U	200	65	ug/kg wet						
1,4-Dichlorobenzene	75 U	200	75	ug/kg wet						
3,3-Dichlorobenzidine	160 U	1000	160	ug/kg wet						
2,4-Dichlorophenol	60 U	200	60	ug/kg wet						
Diethyl phthalate	120 U	200	120	ug/kg wet						
2,4-Dimethylphenol	89 U	200	89	ug/kg wet						
Dimethylphthalate	40 U	200	40	ug/kg wet						
4,6-Dinitro-2-methylphenol	47 U	500	47	ug/kg wet						
2,4-Dinitrophenol	77 U	1000	77	ug/kg wet						
2,4-Dinitrotoluene	86 U	500	86	ug/kg wet						
2,6-Dinitrotoluene	100 U	500	100	ug/kg wet						
1,2-Diphenylhydrazine as Azobenzene	160 U	200	160	ug/kg wet						
Fluoranthene	39 U	200	39	ug/kg wet						
Fluorene	120 U	200	120	ug/kg wet						
Hexachlorobenzene	82 U	200	82	ug/kg wet						
Hexachlorobutadiene	95 U	200	95	ug/kg wet						
Hexachlorocyclopentadiene	150 U	200	150	ug/kg wet						
Hexachloroethane	140 U	200	140	ug/kg wet						
Indeno(1,2,3-cd)pyrene	57 U	500	57	ug/kg wet						
Isophorone	110 U	200	110	ug/kg wet						

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
Blank (BK21537-BLK1)					Prepared & Analyzed: 11/15/12					
Naphthalene	40 U	200	40	ug/kg wet						
Nitrobenzene	*89 U*	*200*	*89*	*ug/kg wet*						
2-Nitrophenol	72 U	500	72	ug/kg wet						
4-Nitrophenol	76 U	1000	76	ug/kg wet						
N-Nitrosodimethylamine	150 U	500	150	ug/kg wet						
N-Nitrosodiphenylamine	120 U	500	120	ug/kg wet						
N-Nitrosodi-n-propylamine	300 U	1000	300	ug/kg wet						
Pentachlorophenol	78 U	1000	78	ug/kg wet						
Phenanthrene	44 U	200	44	ug/kg wet						
Phenol	70 U	200	70	ug/kg wet						
Pyrene	48 U	200	48	ug/kg wet						
1,2,4-Trichlorobenzene	58 U	200	58	ug/kg wet						
2,4,6-Trichlorophenol	100 U	500	100	ug/kg wet						
Surrogate: 2-Fluorobiphenyl	*Result: 2200*			*ug/kg wet*	*2500*		*88*	*43-116*		
Surrogate: 2-Fluorophenol	*Result: 4500*			*ug/kg wet*	*5000*		*89*	*21-110*		
Surrogate: Nitrobenzene-d5	*Result: 1900*			*ug/kg wet*	*2500*		*76*	*35-114*		
Surrogate: Phenol-d5	*Result: 4100*			*ug/kg wet*	*5000*		*81*	*40-100*		
Surrogate: Terphenyl-d14	*Result: 2200*			*ug/kg wet*	*2500*		*90*	*33-141*		
Surrogate: 2,4,6-Tribromophenol	*Result: 4300*			*ug/kg wet*	*5000*		*86*	*10-123*		
LCS (BK21537-BS1)					Prepared & Analyzed: 11/15/12					
Acenaphthene	5,000	200	36	ug/kg wet	5000		100	45-110		
Acenaphthylene	5,400	200	62	ug/kg wet	5000		107	27-133		
Anthracene	5,100	200	62	ug/kg wet	5000		103	55-105		
Benzidine	840	500	120	ug/kg wet	5000		17	0-200		
Benzo(a)anthracene	5,300	200	34	ug/kg wet	5000		105	50-130		
Benzo(b)fluoranthene	5,200	200	22	ug/kg wet	5000		105	45-115		
Benzo(k)fluoranthene	5,000	200	45	ug/kg wet	5000		101	45-125		
Benzo(g,h,i)perylene	4,800	500	57	ug/kg wet	5000		96	40-125		
Benzo(a)pyrene	5,100	200	31	ug/kg wet	5000		102	50-110		
Bis(2-chloroethoxy)methane	5,200	200	88	ug/kg wet	5000		103	45-110		
Bis(2-chloroethyl)ether	4,700	200	89	ug/kg wet	5000		94	40-105		
Bis(2-chloroisopropyl) ether	4,600	200	43	ug/kg wet	5000		93	20-115		
Bis(2-ethylhexyl)phthalate	5,900	500	33	ug/kg wet	5000		118	45-125		
4-Bromophenyl phenyl ether	5,400	200	76	ug/kg wet	5000		107	45-115		
Butyl benzyl phthalate	6,000	500	36	ug/kg wet	5000		121	50-125		
4-Chloro-3-methylphenol	4,700	500	74	ug/kg wet	5000		93	45-115		
2-Chloronaphthalene	5,100	200	91	ug/kg wet	5000		102	45-105		
2-Chlorophenol	4,600	200	71	ug/kg wet	5000		91	45-105		
4-Chlorophenyl phenyl ether	5,000	200	150	ug/kg wet	5000		100	45-110		
Chrysene	5,000	200	18	ug/kg wet	5000		100	55-110		
Dibenzo(a,h)anthracene	5,200	500	80	ug/kg wet	5000		105	40-125		
Di-n-butyl phthalate	5,300	500	43	ug/kg wet	5000		107	55-110		
Di-n-octylphthalate	5,000	1000	42	ug/kg wet	5000		101	40-130		
1,2-Dichlorobenzene	4,500	200	51	ug/kg wet	5000		91	0-200		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
LCS (BK21537-BS1)				Prepared & Analyzed: 11/15/12						
1,3-Dichlorobenzene	4,500	200	65	ug/kg wet				0-200		
1,4-Dichlorobenzene	4,600	200	75	ug/kg wet	5000		92	0-200		
3,3-Dichlorobenzidine	4,000	1000	160	ug/kg wet	5000		79	10-130		
2,4-Dichlorophenol	5,000	200	60	ug/kg wet	5000		99	45-110		
Diethyl phthalate	5,100	200	120	ug/kg wet	5000		103	50-115		
2,4-Dimethylphenol	5,300	200	89	ug/kg wet	5000		106	39-135		
Dimethylphthalate	5,200	200	40	ug/kg wet	5000		103	50-110		
4,6-Dinitro-2-methylphenol	5,300	500	47	ug/kg wet	5000		105	30-135		
2,4-Dinitrophenol	6,000	1000	77	ug/kg wet	5000		119	15-130		
2,4-Dinitrotoluene	4,800	500	86	ug/kg wet	5000		97	50-115		
2,6-Dinitrotoluene	4,700	500	100	ug/kg wet	5000		95	50-110		
1,2-Diphenylhydrazine as Azobenzene	4,400	200	160	ug/kg wet	5000		87	0-200		
Fluoranthene	5,300	200	39	ug/kg wet	5000		105	55-115		
Fluorene	5,100	200	120	ug/kg wet	5000		102	50-110		
Hexachlorobenzene	5,000	200	82	ug/kg wet	5000		99	45-120		
Hexachlorobutadiene	5,300	200	95	ug/kg wet	5000		106	40-115		
Hexachlorocyclopentadiene	4,900	200	150	ug/kg wet	5000		98	0-200		
Hexachloroethane	4,600	200	140	ug/kg wet	5000		91	35-110		
Indeno(1,2,3-cd)pyrene	5,400	500	57	ug/kg wet	5000		108	40-120		
Isophorone	4,700	200	110	ug/kg wet	5000		93	45-110		
Naphthalene	5,000	200	40	ug/kg wet	5000		100	40-105		
Nitrobenzene	4,700	200	89	ug/kg wet	5000		95	40-115		
2-Nitrophenol	4,900	500	72	ug/kg wet	5000		98	40-110		
4-Nitrophenol	4,100	1000	76	ug/kg wet	5000		82	15-140		
N-Nitrosodimethylamine	4,600	500	150	ug/kg wet	5000		92	20-115		
N-Nitrosodiphenylamine	4,400	500	120	ug/kg wet	5000		88	50-115		
N-Nitrosodi-n-propylamine	4,800	1000	300	ug/kg wet	5000		96	40-115		
Pentachlorophenol	5,200	1000	78	ug/kg wet	5000		105	25-120		
Phenanthrene	5,200	200	44	ug/kg wet	5000		104	50-110		
Phenol	4,000	200	70	ug/kg wet	5000		81	40-100		
Pyrene	5,400	200	48	ug/kg wet	5000		108	45-125		
1,2,4-Trichlorobenzene	4,600	200	58	ug/kg wet	5000		92	45-110		
2,4,6-Trichlorophenol	5,300	500	100	ug/kg wet	5000		105	45-110		
Surrogate: 2-Fluorobiphenyl		*Result: 2200*		*ug/kg wet*	*2500*		*90*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 4700*		*ug/kg wet*	*5000*		*93*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 2000*		*ug/kg wet*	*2500*		*79*	*35-114*		
Surrogate: Phenol-d5		*Result: 4200*		*ug/kg wet*	*5000*		*84*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 2300*		*ug/kg wet*	*2500*		*93*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 4900*		*ug/kg wet*	*5000*		*99*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike (BK21537-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/15/12					
Acenaphthene	26,000	1300	230	ug/kg dry	31000	ND	84	45-110		
Acenaphthylene	28,000	1300	390	ug/kg dry	31000	ND	91	45-105		
Anthracene	28,000	1300	390	ug/kg dry	31000	ND	88	55-105		
Benzidine	5,700	3100	750	ug/kg dry	31000	ND	18	0-200		
Benzo(a)anthracene	30,000	1300	210	ug/kg dry	31000	ND	96	50-130		
Benzo(b)fluoranthene	28,000	1300	140	ug/kg dry	31000	ND	89	45-115		
Benzo(k)fluoranthene	26,000	1300	280	ug/kg dry	31000	ND	84	45-125		
Benzo(g,h,i)perylene	25,000	3100	360	ug/kg dry	31000	ND	80	40-125		
Benzo(a)pyrene	28,000	1300	190	ug/kg dry	31000	ND	88	50-110		
Bis(2-chloroethoxy)methane	27,000	1300	550	ug/kg dry	31000	ND	87	45-110		
Bis(2-chloroethyl)ether	24,000	1300	560	ug/kg dry	31000	ND	77	40-105		
Bis(2-chloroisopropyl) ether	25,000	1300	270	ug/kg dry	31000	ND	78	20-115		
Bis(2-ethylhexyl)phthalate	44,000	3100	210	ug/kg dry	31000	7500	116	45-125		
4-Bromophenyl phenyl ether	29,000	1300	480	ug/kg dry	31000	ND	93	45-115		
Butyl benzyl phthalate	39,000	3100	230	ug/kg dry	31000	ND	124	50-125		
4-Chloro-3-methylphenol	27,000	3100	460	ug/kg dry	31000	ND	87	45-115		
2-Chloronaphthalene	27,000	1300	570	ug/kg dry	31000	ND	85	45-105		
2-Chlorophenol	25,000	1300	450	ug/kg dry	31000	ND	79	45-105		
4-Chlorophenyl phenyl ether	27,000	1300	940	ug/kg dry	31000	ND	86	45-110		
Chrysene	28,000	1300	110	ug/kg dry	31000	ND	89	55-110		
Dibenzo(a,h)anthracene	25,000	3100	500	ug/kg dry	31000	ND	80	40-125		
Di-n-butyl phthalate	30,000	3100	270	ug/kg dry	31000	ND	95	55-110		
Di-n-octylphthalate	31,000	6300	260	ug/kg dry	31000	ND	98	40-130		
1,2-Dichlorobenzene	24,000	1300	320	ug/kg dry	31000	ND	76	0-200		
1,3-Dichlorobenzene	23,000	1300	410	ug/kg dry		ND		0-200		
1,4-Dichlorobenzene	24,000	1300	470	ug/kg dry	31000	ND	77	0-200		
3,3-Dichlorobenzidine	14,000	6300	1000	ug/kg dry	31000	ND	46	10-130		
2,4-Dichlorophenol	26,000	1300	380	ug/kg dry	31000	ND	83	45-110		
Diethyl phthalate	27,000	1300	750	ug/kg dry	31000	ND	87	50-115		
2,4-Dimethylphenol	31,000	1300	560	ug/kg dry	31000	ND	99	30-105		
Dimethylphthalate	27,000	1300	250	ug/kg dry	31000	ND	86	50-110		
4,6-Dinitro-2-methylphenol	27,000	3100	290	ug/kg dry	31000	ND	86	30-135		
2,4-Dinitrophenol	29,000	6300	480	ug/kg dry	31000	ND	93	15-130		
2,4-Dinitrotoluene	26,000	3100	540	ug/kg dry	31000	ND	82	50-115		
2,6-Dinitrotoluene	26,000	3100	630	ug/kg dry	31000	ND	82	50-110		
1,2-Diphenylhydrazine as Azobenzene	24,000	1300	1000	ug/kg dry	31000	ND	76	0-200		
Fluoranthene	28,000	1300	240	ug/kg dry	31000	ND	90	55-115		
Fluorene	27,000	1300	750	ug/kg dry	31000	ND	87	50-110		
Hexachlorobenzene	26,000	1300	510	ug/kg dry	31000	ND	84	45-120		
Hexachlorobutadiene	28,000	1300	600	ug/kg dry	31000	ND	91	40-115		
Hexachlorocyclopentadiene	940 U	1300	940	ug/kg dry	31000	ND		0-200		
Hexachloroethane	24,000	1300	880	ug/kg dry	31000	ND	76	35-110		
Indeno(1,2,3-cd)pyrene	28,000	3100	360	ug/kg dry	31000	ND	89	40-120		
Isophorone	25,000	1300	690	ug/kg dry	31000	ND	79	45-110		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike (BK21537-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/15/12					
Naphthalene	27,000	1300	250	ug/kg dry	31000	ND	85	40-105		
Nitrobenzene	25,000	1300	560	ug/kg dry	31000	ND	80	40-115		
2-Nitrophenol	26,000	3100	450	ug/kg dry	31000	ND	84	40-110		
4-Nitrophenol	25,000	6300	480	ug/kg dry	31000	ND	79	15-140		
N-Nitrosodimethylamine	23,000	3100	940	ug/kg dry	31000	ND	73	20-115		
N-Nitrosodiphenylamine	23,000	3100	750	ug/kg dry	31000	ND	72	50-115		
N-Nitrosodi-n-propylamine	26,000	6300	1900	ug/kg dry	31000	ND	82	40-115		
Pentachlorophenol	31,000	6300	490	ug/kg dry	31000	ND	98	25-120		
Phenanthrene	27,000	1300	280	ug/kg dry	31000	ND	86	50-110		
Phenol	22,000	1300	440	ug/kg dry	31000	ND	70	40-100		
Pyrene	31,000	1300	300	ug/kg dry	31000	ND	98	45-125		
1,2,4-Trichlorobenzene	25,000	1300	360	ug/kg dry	31000	ND	80	45-110		
2,4,6-Trichlorophenol	28,000	3100	630	ug/kg dry	31000	ND	91	45-110		
Surrogate: 2-Fluorobiphenyl		*Result: 12000*		*ug/kg dry*	*16000*		*76*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 24000*		*ug/kg dry*	*31000*		*76*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 11000*		*ug/kg dry*	*16000*		*68*	*35-114*		
Surrogate: Phenol-d5		*Result: 22000*		*ug/kg dry*	*31000*		*71*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 14000*		*ug/kg dry*	*16000*		*87*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 29000*		*ug/kg dry*	*31000*		*92*	*10-123*		
Matrix Spike Dup (BK21537-MSD1)		**Source: 1213017-01**			Prepared & Analyzed: 11/15/12					
Acenaphthene	25,000	1300	230	ug/kg dry	32000	ND	81	45-110	4	31
Acenaphthylene	28,000	1300	390	ug/kg dry	32000	ND	90	45-105	0.7	31
Anthracene	28,000	1300	390	ug/kg dry	32000	ND	88	55-105	0.5	27
Benzidine	6,400	3200	760	ug/kg dry	32000	ND	20	0-200	11	200
Benzo(a)anthracene	30,000	1300	210	ug/kg dry	32000	ND	94	50-130	0.8	29
Benzo(b)fluoranthene	27,000	1300	140	ug/kg dry	32000	ND	87	45-115	2	34
Benzo(k)fluoranthene	27,000	1300	280	ug/kg dry	32000	ND	84	45-125	0.7	39
Benzo(g,h,i)perylene	25,000	3200	360	ug/kg dry	32000	ND	79	40-125	0	44
Benzo(a)pyrene	27,000	1300	200	ug/kg dry	32000	ND	87	50-110	0.9	31
Bis(2-chloroethoxy)methane	27,000	1300	550	ug/kg dry	32000	ND	87	45-110	0.5	33
Bis(2-chloroethyl)ether	25,000	1300	560	ug/kg dry	32000	ND	78	40-105	2	34
Bis(2-chloroisopropyl) ether	24,000	1300	270	ug/kg dry	32000	ND	77	20-115	2	47
Bis(2-ethylhexyl)phthalate	42,000	3200	210	ug/kg dry	32000	7500	110	45-125	4	40
4-Bromophenyl phenyl ether	28,000	1300	480	ug/kg dry	32000	ND	90	45-115	3	35
Butyl benzyl phthalate	37,000	3200	230	ug/kg dry	32000	ND	118	50-125	4	37
4-Chloro-3-methylphenol	27,000	3200	470	ug/kg dry	32000	ND	86	45-115	0.2	33
2-Chloronaphthalene	26,000	1300	570	ug/kg dry	32000	ND	82	45-105	3	30
2-Chlorophenol	25,000	1300	450	ug/kg dry	32000	ND	81	45-105	3	31
4-Chlorophenyl phenyl ether	26,000	1300	950	ug/kg dry	32000	ND	83	45-110	4	33
Chrysene	28,000	1300	110	ug/kg dry	32000	ND	87	55-110	2	30
Dibenzo(a,h)anthracene	25,000	3200	500	ug/kg dry	32000	ND	80	40-125	0.5	42
Di-n-butyl phthalate	30,000	3200	270	ug/kg dry	32000	ND	95	55-110	0.6	27
Di-n-octylphthalate	30,000	6300	260	ug/kg dry	32000	ND	97	40-130	1	46
1,2-Dichlorobenzene	24,000	1300	320	ug/kg dry	32000	ND	75	0-200	0.8	200

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21537 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike Dup (BK21537-MSD1)		**Source: 1213017-01**			Prepared & Analyzed: 11/15/12					
1,3-Dichlorobenzene	23,000	1300	410	ug/kg dry		ND		0-200	0.8	200
1,4-Dichlorobenzene	25,000	1300	470	ug/kg dry	32000	ND	78	0-200	2	200
3,3-Dichlorobenzidine	16,000	6300	1000	ug/kg dry	32000	ND	52	10-130	13	60
2,4-Dichlorophenol	26,000	1300	380	ug/kg dry	32000	ND	84	45-110	0.7	33
Diethyl phthalate	27,000	1300	760	ug/kg dry	32000	ND	85	50-115	0.9	32
2,4-Dimethylphenol	31,000	1300	560	ug/kg dry	32000	ND	99	30-105	0.4	36
Dimethylphthalate	26,000	1300	250	ug/kg dry	32000	ND	83	50-110	3	31
4,6-Dinitro-2-methylphenol	27,000	3200	300	ug/kg dry	32000	ND	86	30-135	1	54
2,4-Dinitrophenol	30,000	6300	490	ug/kg dry	32000	ND	94	15-130	1	60
2,4-Dinitrotoluene	26,000	3200	540	ug/kg dry	32000	ND	81	50-115	0	34
2,6-Dinitrotoluene	26,000	3200	630	ug/kg dry	32000	ND	83	50-110	1	32
1,2-Diphenylhydrazine as Azobenzene	23,000	1300	1000	ug/kg dry	32000	ND	74	0-200	1	200
Fluoranthene	28,000	1300	250	ug/kg dry	32000	ND	90	55-115	0.2	30
Fluorene	26,000	1300	760	ug/kg dry	32000	ND	84	50-110	3	30
Hexachlorobenzene	26,000	1300	520	ug/kg dry	32000	ND	81	45-120	3	36
Hexachlorobutadiene	29,000	1300	600	ug/kg dry	32000	ND	92	40-115	2	39
Hexachlorocyclopentadiene	6,100	1300	950	ug/kg dry	32000	ND	19	0-200		200
Hexachloroethane	23,000	1300	880	ug/kg dry	32000	ND	74	35-110	2	38
Indeno(1,2,3-cd)pyrene	27,000	3200	360	ug/kg dry	32000	ND	87	40-120	2	41
Isophorone	24,000	1300	690	ug/kg dry	32000	ND	77	45-110	2	34
Naphthalene	26,000	1300	250	ug/kg dry	32000	ND	82	40-105	4	33
Nitrobenzene	25,000	1300	560	ug/kg dry	32000	ND	79	40-115	1	36
2-Nitrophenol	27,000	3200	450	ug/kg dry	32000	ND	86	40-110	4	35
4-Nitrophenol	25,000	6300	480	ug/kg dry	32000	ND	80	15-140	2	61
N-Nitrosodimethylamine	23,000	3200	950	ug/kg dry	32000	ND	74	20-115	2	48
N-Nitrosodiphenylamine	23,000	3200	760	ug/kg dry	32000	ND	72	50-115	0.3	34
N-Nitrosodi-n-propylamine	27,000	6300	1900	ug/kg dry	32000	ND	86	40-115	6	37
Pentachlorophenol	29,000	6300	490	ug/kg dry	32000	ND	92	25-120	5	47
Phenanthrene	27,000	1300	280	ug/kg dry	32000	ND	86	50-110	0	30
Phenol	22,000	1300	440	ug/kg dry	32000	ND	70	40-100	0.3	31
Pyrene	31,000	1300	300	ug/kg dry	32000	ND	99	45-125	1	39
1,2,4-Trichlorobenzene	24,000	1300	370	ug/kg dry	32000	ND	78	45-110	3	34
2,4,6-Trichlorophenol	28,000	3200	630	ug/kg dry	32000	ND	90	45-110	0	33
Surrogate: 2-Fluorobiphenyl		*Result: 11000*		*ug/kg dry*	*16000*		*72*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 24000*		*ug/kg dry*	*32000*		*77*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 11000*		*ug/kg dry*	*16000*		*71*	*35-114*		
Surrogate: Phenol-d5		*Result: 23000*		*ug/kg dry*	*32000*		*72*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 13000*		*ug/kg dry*	*16000*		*85*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 28000*		*ug/kg dry*	*32000*		*90*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK20837 - TS prep										
Blank (BK20837-BLK1)					Prepared: 11/08/12 Analyzed: 11/09/12					
Total Solids	0.01 U	0.01	0.01	% by wt						
Duplicate (BK20837-DUP1)		**Source: 1213017-01**			Prepared: 11/08/12 Analyzed: 11/09/12					
Total Solids	15.7	0.01	0.01	% by wt		15.8			0.6	10
Batch BK21313 - Distillation for Phenols by EPA 420.1										
Blank (BK21313-BLK1)					Prepared & Analyzed: 11/13/12					
Phenolics	25 U	100	25	mg/kg wet						
LCS (BK21313-BS1)					Prepared & Analyzed: 11/13/12					
Phenolics	26.9 I	100	25	mg/kg wet	25		108	50-150		
Matrix Spike (BK21313-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/13/12					
Phenolics	181 I	630	160	mg/kg dry	160	ND	115	50-150		
Matrix Spike Dup (BK21313-MSD1)		**Source: 1213017-01**			Prepared & Analyzed: 11/13/12					
Phenolics	160 U,J3	630	160	mg/kg dry	160	ND		50-150		30
Batch BK21328 - Distillation for Cyanide by SM 4500CN-E										
Blank (BK21328-BLK1)					Prepared & Analyzed: 11/13/12					
Cyanide	0.0050 U	0.020	0.0050	mg/kg wet						
LCS (BK21328-BS1)					Prepared & Analyzed: 11/13/12					
Cyanide	2.75	0.020	0.0050	mg/kg wet	2.5		110	80-120		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21328 - Distillation for Cyanide by SM 4500CN-E										
Matrix Spike (BK21328-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/13/12					
Cyanide	17.4	0.020	0.0050	mg/kg dry	16	0.633	106	80-120		
Matrix Spike Dup (BK21328-MSD1)		**Source: 1213017-01**			Prepared & Analyzed: 11/13/12					
Cyanide	19.3	0.020	0.0050	mg/kg dry	16	0.633	118	80-120	10	20

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21334 - EPA 3050B										
Blank (BK21334-BLK1)					Prepared: 11/13/12 Analyzed: 11/14/12					
Cadmium	0.10 U	0.40	0.10	mg/kg wet						
Thallium	0.50 U	2.0	0.50	mg/kg wet						
Silver	0.10 U	0.40	0.10	mg/kg wet						
Copper	0.30 U	1.2	0.30	mg/kg wet						
Selenium	5.0 U	20	5.0	mg/kg wet						
Antimony	1.0 U	4.0	1.0	mg/kg wet						
Nickel	0.10 U	0.40	0.10	mg/kg wet						
Beryllium	0.012 I	0.040	0.010	mg/kg wet						
Arsenic	1.0 U	4.0	1.0	mg/kg wet						
Lead	1.0 U	4.0	1.0	mg/kg wet						
Zinc	0.30 U	1.2	0.30	mg/kg wet						
Chromium	0.40 U	1.6	0.40	mg/kg wet						
LCS (BK21334-BS1)					Prepared: 11/13/12 Analyzed: 11/14/12					
Nickel	41	0.40	0.10	mg/kg wet	40		103	85-115		
Antimony	40	4.0	1.0	mg/kg wet	40		99	85-115		
Silver	7.4	0.40	0.10	mg/kg wet	8.0		92	85-115		
Arsenic	38	4.0	1.0	mg/kg wet	40		94	85-115		
Thallium	39	2.0	0.50	mg/kg wet	40		97	85-115		
Zinc	41	1.2	0.30	mg/kg wet	40		102	85-115		
Cadmium	39	0.40	0.10	mg/kg wet	40		96	85-115		
Selenium	41	20	5.0	mg/kg wet	40		102	85-115		
Chromium	40	1.6	0.40	mg/kg wet	40		101	85-115		
Beryllium	3.8	0.040	0.010	mg/kg wet	4.0		96	85-115		
Copper	38	1.2	0.30	mg/kg wet	40		96	85-115		
Lead	41	4.0	1.0	mg/kg wet	40		101	85-115		
Matrix Spike (BK21334-MS1)		**Source: 1213030-01**			Prepared: 11/13/12 Analyzed: 11/14/12					
Antimony	300	34	8.4	mg/kg dry	340	ND	88	75-125		
Zinc	880 J5	10	2.5	mg/kg dry	340	430	133	75-125		
Selenium	370	170	42	mg/kg dry	340	47	97	75-125		
Lead	370	34	8.4	mg/kg dry	340	18	103	75-125		
Thallium	260	17	4.2	mg/kg dry	340	ND	76	25-175		
Arsenic	390	34	8.4	mg/kg dry	340	39	106	75-125		
Copper	650	10	2.5	mg/kg dry	340	260	117	75-125		
Nickel	360	3.4	0.84	mg/kg dry	340	6.7	106	75-125		
Chromium	360	13	3.4	mg/kg dry	340	7.6	105	75-125		
Cadmium	330	3.4	0.84	mg/kg dry	340	1.7	98	75-125		
Silver	67	3.4	0.84	mg/kg dry	67	4.6	92	75-125		
Beryllium	33	0.34	0.084	mg/kg dry	34	0.58	97	75-125		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK21334 - EPA 3050B										
Matrix Spike Dup (BK21334-MSD1)		**Source: 1213030-01**			Prepared: 11/13/12 Analyzed: 11/14/12					
Lead	380	34	8.4	mg/kg dry	340	18	107	75-125	4	50
Zinc	890 J5	10	2.5	mg/kg dry	340	430	137	75-125	2	50
Arsenic	410	34	8.4	mg/kg dry	340	39	110	75-125	4	50
Selenium	410	170	42	mg/kg dry	340	47	108	75-125	10	50
Antimony	320	34	8.4	mg/kg dry	340	ND	96	75-125	9	50
Thallium	260	17	4.2	mg/kg dry	340	ND	78	25-175	3	50
Nickel	370	3.4	0.84	mg/kg dry	340	6.7	108	75-125	2	50
Silver	71	3.4	0.84	mg/kg dry	67	4.6	98	75-125	6	50
Copper	660	10	2.5	mg/kg dry	340	260	119	75-125	0.9	50
Cadmium	340	3.4	0.84	mg/kg dry	340	1.7	100	75-125	3	50
Chromium	360	13	3.4	mg/kg dry	340	7.6	106	75-125	0.7	50
Beryllium	35	0.34	0.084	mg/kg dry	34	0.58	102	75-125	5	50
Batch BK21402 - Mercury Digestion of Soils, Sediments & Sludges										
Blank (BK21402-BLK1)					Prepared & Analyzed: 11/14/12					
Mercury	0.02 U	0.40	0.02	mg/kg wet						
LCS (BK21402-BS1)					Prepared & Analyzed: 11/14/12					
Mercury	0.53	0.40	0.02	mg/kg wet	0.50		105	80-120		
Matrix Spike (BK21402-MS1)		**Source: 1213017-01**			Prepared & Analyzed: 11/14/12					
Mercury	1.5	0.84	0.04	mg/kg dry	1.1	0.71	75	70-130		
Matrix Spike Dup (BK21402-MSD1)		**Source: 1213017-01**			Prepared & Analyzed: 11/14/12					
Mercury	1.5	0.84	0.04	mg/kg dry	1.0	0.71	77	70-130	1	20

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213017

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limts and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

J5 Matrix spike of this sample was outside typical range. All other QC criteria were acceptable.
J3 Quality control value for precision was outside control limits.
J2 Quality control value for accuracy was outside control limits.
J0 Surrogate recovery was outside control limits.

Questions regarding this report should be directed to :

Christy Whitehurst
Telephone (813) 855-1844 FAX (813) 855-2218
Christy@southernanalyticallabs.com

or to Client Services (clientservices@southernanalyticallabs.com).

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 1213017 ~~212990~~

Client Name	Contact / Phone:
Pasco County Environmental Laboratory	Candia 727/847-8902
Project Name / Location: SHADY HILLS Priority Pollutants - Hudson WWTF	
Samplers: (Signature)	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	40 mL vials, Cool 8260 (priority pollutants)	8 oz amber soil jar, Cool 8081, 8082 8270 (Priority Pollutants)	8 oz soil jar, Cool Cyanide	8 oz soil jar, Cool Metals (priority pollutants)	8 oz amber soil jar, Cool TR Phenols				No. of Containers (Total per each location)
							PARAMETER / CONTAINER DESCRIPTION								
01	Sludge	11/6/12	0850	SL			2	1	1	1	1				6
02	Trip Blank	10/27/12	1245	R		X	1								1
												Sent to S.A.L. 11/7/12			

Containers Prepared/ Relinquished:	Date/Time:	Received:	Date/Time:
[illegible]	10/27/12 1300	Daniel Hostetler	10/27/12 13:30
Daniel Hostetler	11/6/12 0800	[signature]	11/6/12 0800
[signature]	11/6/12	Scott M. Walters TEMP @ 5.9°C	11-6-12 1110 HRS
Scott M. Walters	11-6-12 14:00	[signature]	11/6/12 14:00
[signature]	11/7/12 13:05	[signature]	11-7-12 1305
[signature]	11-7-12 1400	H Hamm	11-7-12 1400

Seal intact? Y N (N/A)
Samples intact upon arrival? (Y) N N/A
Received on ice? Temp 1.2 (Y) N N/A
Proper preservatives indicated? (Y) N N/A
Rec'd within holding time? (Y) N N/A
Volatiles rec'd w/out headspace? (Y) N N/A
Proper containers used? (Y) N N/A

Instructions / Remarks

All paramters listed in 40 CFR Part 122 App. D tables II and III are to be analyzed for. MDLs must comply with 40 CFR Part 122 App. D tables II and III.

Final report must include MDL/PQL report.

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	Influent Wastewater
Matrix	Wastewater
SAL Sample Number	1213710-01
Date/Time Collected	11/28/12 07:00
Collected by	E. Willoughby
Date/Time Received	11/28/12 14:40

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Organo Chlorine Pesticides								
4,4'-DDD	ug/L	0.027 U	EPA 608	0.11	0.027	11/29/12 11:41	01/05/13 08:12	3
4,4'-DDE	ug/L	0.019 U	EPA 608	0.11	0.019	11/29/12 11:41	01/05/13 08:12	3
4,4'-DDT	ug/L	0.026 U	EPA 608	0.11	0.026	11/29/12 11:41	01/05/13 08:12	3
Aldrin	ug/L	0.013 U	EPA 608	0.11	0.013	11/29/12 11:41	01/05/13 08:12	3
alpha-BHC	ug/L	0.023 U	EPA 608	0.11	0.023	11/29/12 11:41	01/05/13 08:12	3
beta-BHC	ug/L	0.021 U	EPA 608	0.11	0.021	11/29/12 11:41	01/05/13 08:12	3
Chlordane	ug/L	0.14 U	EPA 608	0.56	0.14	11/29/12 11:41	01/05/13 08:12	3
delta-BHC	ug/L	0.016 U	EPA 608	0.11	0.016	11/29/12 11:41	01/05/13 08:12	3
Dieldrin	ug/L	0.026 U	EPA 608	0.11	0.026	11/29/12 11:41	01/05/13 08:12	3
Endosulfan I	ug/L	0.027 U	EPA 608	0.11	0.027	11/29/12 11:41	01/05/13 08:12	3
Endosulfan II	ug/L	0.023 U	EPA 608	0.11	0.023	11/29/12 11:41	01/05/13 08:12	3
Endosulfan sulfate	ug/L	0.026 U	EPA 608	0.11	0.026	11/29/12 11:41	01/05/13 08:12	3
Endrin	ug/L	0.028 U	EPA 608	0.11	0.028	11/29/12 11:41	01/05/13 08:12	3
Endrin Aldehyde	ug/L	0.027 U,J5	EPA 608	0.11	0.027	11/29/12 11:41	01/05/13 08:12	3
gamma-BHC	ug/L	0.024 U	EPA 608	0.11	0.024	11/29/12 11:41	01/05/13 08:12	3
Heptachlor	ug/L	0.021 U	EPA 608	0.11	0.021	11/29/12 11:41	01/05/13 08:12	3
Heptachlor epoxide	ug/L	0.027 U	EPA 608	0.11	0.027	11/29/12 11:41	01/05/13 08:12	3
Methoxychlor	ug/L	0.13 U	EPA 608**	0.44	0.13	11/29/12 11:41	01/05/13 08:12	3
PCB-1016	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1221	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1232	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1242	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1248	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1254	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
PCB-1260	ug/L	0.56 U	EPA 608	2.2	0.56	11/29/12 11:41	01/05/13 08:12	3
Toxaphene	ug/L	1.4 U	EPA 608	5.6	1.4	11/29/12 11:41	01/05/13 08:12	3
Surrogate for EPA 608	*Decachlorobiphenyl*		*85 %*	*Limits*	*20-149*			
Surrogate for EPA 608	*Tetrachloro-meta-xylene*		*83 %*	*Limits*	*18-158*			
Semivolatile Analyses								
1,2,4-Trichlorobenzene	ug/L	1.4 U	EPA 625	11	1.4	12/01/12 13:36	12/04/12 06:14	1
1,2-Diphenylhydrazine as Azobenz	ug/L	4.2 U	EPA 625**	11	4.2	12/01/12 13:36	12/04/12 06:14	1
2,4,6-Trichlorophenol	ug/L	2.8 U	EPA 625	11	2.8	12/01/12 13:36	12/04/12 06:14	1
2,4-Dichlorophenol	ug/L	1.5 U	EPA 625	11	1.5	12/01/12 13:36	12/04/12 06:14	1

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	Influent Wastewater
Matrix	Wastewater
SAL Sample Number	1213710-01
Date/Time Collected	11/28/12 07:00
Collected by	E. Willoughby
Date/Time Received	11/28/12 14:40

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4-Dimethylphenol	ug/L	5.0 U	EPA 625	11	5.0	12/01/12 13:36	12/04/12 06:14	1
2,4-Dinitrophenol	ug/L	1.1 U	EPA 625	21	1.1	12/01/12 13:36	12/04/12 06:14	1
2,4-Dinitrotoluene	ug/L	0.89 U	EPA 625	11	0.89	12/01/12 13:36	12/04/12 06:14	1
2,6-Dinitrotoluene	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
2-Chloronaphthalene	ug/L	2.9 U	EPA 625	11	2.9	12/01/12 13:36	12/04/12 06:14	1
2-Chlorophenol	ug/L	2.9 U	EPA 625	11	2.9	12/01/12 13:36	12/04/12 06:14	1
2-Nitrophenol	ug/L	1.7 U	EPA 625	11	1.7	12/01/12 13:36	12/04/12 06:14	1
3,3-Dichlorobenzidine	ug/L	0.68 U	EPA 625	11	0.68	12/01/12 13:36	12/04/12 06:14	1
4,6-Dinitro-2-methylphenol	ug/L	1.3 U	EPA 625	21	1.3	12/01/12 13:36	12/04/12 06:14	1
4-Bromophenyl phenyl ether	ug/L	0.90 U	EPA 625	11	0.90	12/01/12 13:36	12/04/12 06:14	1
4-Chloro-3-methylphenol	ug/L	3.2 U	EPA 625	11	3.2	12/01/12 13:36	12/04/12 06:14	1
4-Chlorophenyl phenyl ether	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
4-Nitrophenol	ug/L	0.76 U	EPA 625	21	0.76	12/01/12 13:36	12/04/12 06:14	1
Acenaphthene	ug/L	0.89 U	EPA 625	11	0.89	12/01/12 13:36	12/04/12 06:14	1
Acenaphthylene	ug/L	1.0 U	EPA 625	11	1.0	12/01/12 13:36	12/04/12 06:14	1
Anthracene	ug/L	0.30 U	EPA 625	11	0.30	12/01/12 13:36	12/04/12 06:14	1
Benzidine	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
Benzo(a)anthracene	ug/L	0.75 U	EPA 625	11	0.75	12/01/12 13:36	12/04/12 06:14	1
Benzo(a)pyrene	ug/L	0.60 U	EPA 625	11	0.60	12/01/12 13:36	12/04/12 06:14	1
Benzo(b)fluoranthene	ug/L	0.74 U	EPA 625	11	0.74	12/01/12 13:36	12/04/12 06:14	1
Benzo(g,h,i)perylene	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
Benzo(k)fluoranthene	ug/L	1.4 U	EPA 625	11	1.4	12/01/12 13:36	12/04/12 06:14	1
Bis(2-chloroethoxy)methane	ug/L	1.9 U	EPA 625	11	1.9	12/01/12 13:36	12/04/12 06:14	1
Bis(2-chloroethyl)ether	ug/L	3.5 U	EPA 625	11	3.5	12/01/12 13:36	12/04/12 06:14	1
Bis(2-chloroisopropyl) ether	ug/L	0.70 U	EPA 625	11	0.70	12/01/12 13:36	12/04/12 06:14	1
Bis(2-ethylhexyl)phthalate	ug/L	19	EPA 625	11	1.2	12/01/12 13:36	12/04/12 06:14	1
Butyl benzyl phthalate	ug/L	0.85 U	EPA 625	11	0.85	12/01/12 13:36	12/04/12 06:14	1
Chrysene	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
Dibenzo(a,h)anthracene	ug/L	1.2 U	EPA 625	11	1.2	12/01/12 13:36	12/04/12 06:14	1
Diethyl phthalate	ug/L	4.1 I	EPA 625	11	0.91	12/01/12 13:36	12/04/12 06:14	1
Dimethylphthalate	ug/L	1.6 U	EPA 625	11	1.6	12/01/12 13:36	12/04/12 06:14	1
Di-n-butyl phthalate	ug/L	0.79 U	EPA 625	11	0.79	12/01/12 13:36	12/04/12 06:14	1
Di-n-octylphthalate	ug/L	0.67 U	EPA 625	11	0.67	12/01/12 13:36	12/04/12 06:14	1
Fluoranthene	ug/L	1.2 U	EPA 625	11	1.2	12/01/12 13:36	12/04/12 06:14	1
Fluorene	ug/L	0.88 U	EPA 625	11	0.88	12/01/12 13:36	12/04/12 06:14	1

Florida Certification Number: E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Influent Wastewater**
Matrix	**Wastewater**
SAL Sample Number	**1213710-01**
Date/Time Collected	**11/28/12 07:00**
Collected by	**E. Willoughby**
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Hexachlorobenzene	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
Hexachlorobutadiene	ug/L	1.8 U	EPA 625	11	1.8	12/01/12 13:36	12/04/12 06:14	1
Hexachlorocyclopentadiene	ug/L	2.5 U	EPA 625	11	2.5	12/01/12 13:36	12/04/12 06:14	1
Hexachloroethane	ug/L	0.61 U	EPA 625	11	0.61	12/01/12 13:36	12/04/12 06:14	1
Indeno(1,2,3-cd)pyrene	ug/L	0.99 U	EPA 625	11	0.99	12/01/12 13:36	12/04/12 06:14	1
Isophorone	ug/L	2.1 U	EPA 625	11	2.1	12/01/12 13:36	12/04/12 06:14	1
Naphthalene	ug/L	0.89 U	EPA 625	11	0.89	12/01/12 13:36	12/04/12 06:14	1
Nitrobenzene	ug/L	1.9 U	EPA 625	11	1.9	12/01/12 13:36	12/04/12 06:14	1
N-Nitrosodimethylamine	ug/L	3.1 U	EPA 625	11	3.1	12/01/12 13:36	12/04/12 06:14	1
N-Nitrosodi-n-propylamine	ug/L	1.7 U	EPA 625	11	1.7	12/01/12 13:36	12/04/12 06:14	1
N-Nitrosodiphenylamine	ug/L	3.4 U	EPA 625	11	3.4	12/01/12 13:36	12/04/12 06:14	1
Pentachlorophenol	ug/L	1.1 U	EPA 625	11	1.1	12/01/12 13:36	12/04/12 06:14	1
Phenanthrene	ug/L	0.96 U	EPA 625	11	0.96	12/01/12 13:36	12/04/12 06:14	1
Phenol	ug/L	17	EPA 625	11	1.5	12/01/12 13:36	12/04/12 06:14	1
Pyrene	ug/L	1.3 U	EPA 625	11	1.3	12/01/12 13:36	12/04/12 06:14	1
Surrogate for EPA 625	*2,4,6-Tribromophenol*		*90 %*	*Limits*	*10-123*			
Surrogate for EPA 625	*2-Fluorobiphenyl*		*80 %*	*Limits*	*43-116*			
Surrogate for EPA 625	*2-Fluorophenol*		*53 %*	*Limits*	*21-110*			
Surrogate for EPA 625	*Nitrobenzene-d5*		*80 %*	*Limits*	*35-114*			
Surrogate for EPA 625	*Phenol-d5*		*37 %*	*Limits*	*10-110*			
Surrogate for EPA 625	*Terphenyl-d14*		*83 %*	*Limits*	*33-141*			
Inorganics								
Cyanide	mg/L	0.0024 U	SM 4500CN-E	0.020	0.0024	12/04/12 08:05	12/04/12 10:15	1
Phenolics	mg/L	0.054 I	EPA 420.1	0.080	0.0050	12/04/12 09:47	12/04/12 12:50	1
Metals								
Antimony	mg/L	0.000071 U	EPA 200.8	0.00050	0.000071	12/04/12 15:26	12/04/12 16:44	1
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	11/29/12 14:30	12/03/12 19:23	1
Beryllium	mg/L	0.00013 I	EPA 200.7	0.0010	0.000096	11/29/12 16:39	12/04/12 18:50	1
Cadmium	mg/L	0.00027 U	EPA 200.8	0.00050	0.00027	11/29/12 14:30	12/03/12 19:23	1
Chromium	mg/L	0.0024 I	EPA 200.8	0.0050	0.00035	11/29/12 14:30	12/03/12 19:23	1
Copper	mg/L	0.016	EPA 200.8	0.00050	0.00013	11/29/12 14:30	12/03/12 19:23	1
Lead	mg/L	0.00055	EPA 200.8	0.00050	0.00025	11/29/12 14:30	12/03/12 19:23	1
Mercury	mg/L	0.0016	EPA 245.1	0.00050	0.00010	11/30/12 14:00	12/03/12 14:03	1
Nickel	mg/L	0.0066	EPA 200.8	0.0050	0.00046	11/29/12 14:30	12/03/12 19:23	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Influent Wastewater**
Matrix	**Wastewater**
SAL Sample Number	**1213710-01**
Date/Time Collected	**11/28/12 07:00**
Collected by	**E. Willoughby**
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	mg/L	0.00096 I	EPA 200.8	0.0050	0.00093	12/04/12 15:26	12/04/12 16:44	1
Silver	mg/L	0.0011 U	EPA 200.7	0.020	0.0011	11/29/12 16:39	12/04/12 18:50	1
Thallium	mg/L	0.00024 U	EPA 200.8	0.00050	0.00024	11/29/12 14:30	12/03/12 19:23	1
Zinc	mg/L	0.097	EPA 200.8	0.0050	0.00088	11/29/12 14:30	12/03/12 19:23	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Effluent Wastewater**
Matrix	**Wastewater**
SAL Sample Number	**1213710-02**
Date/Time Collected	**11/28/12 07:00**
Collected by	**E. Willoughby**
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Organo Chlorine Pesticides								
4,4'-DDD	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
4,4'-DDE	ug/L	0.006 U	EPA 608	0.037	0.006	11/29/12 11:41	12/13/12 16:53	1
4,4'-DDT	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Aldrin	ug/L	0.004 U	EPA 608	0.037	0.004	11/29/12 11:41	12/13/12 16:53	1
alpha-BHC	ug/L	0.008 U	EPA 608	0.037	0.008	11/29/12 11:41	12/13/12 16:53	1
beta-BHC	ug/L	0.007 U	EPA 608	0.037	0.007	11/29/12 11:41	12/13/12 16:53	1
Chlordane	ug/L	0.046 U	EPA 608	0.18	0.046	11/29/12 11:41	12/13/12 16:53	1
delta-BHC	ug/L	0.005 U	EPA 608	0.037	0.005	11/29/12 11:41	12/13/12 16:53	1
Dieldrin	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Endosulfan I	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Endosulfan II	ug/L	0.008 U	EPA 608	0.037	0.008	11/29/12 11:41	12/13/12 16:53	1
Endosulfan sulfate	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Endrin	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Endrin Aldehyde	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
gamma-BHC	ug/L	0.008 U	EPA 608	0.037	0.008	11/29/12 11:41	12/13/12 16:53	1
Heptachlor	ug/L	0.007 U	EPA 608	0.037	0.007	11/29/12 11:41	12/13/12 16:53	1
Heptachlor epoxide	ug/L	0.009 U	EPA 608	0.037	0.009	11/29/12 11:41	12/13/12 16:53	1
Methoxychlor	ug/L	0.043 U	EPA 608**	0.15	0.043	11/29/12 11:41	12/13/12 16:53	1
PCB-1016	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1221	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1232	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1242	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1248	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1254	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
PCB-1260	ug/L	0.18 U	EPA 608	0.74	0.18	11/29/12 11:41	12/13/12 16:53	1
Toxaphene	ug/L	0.46 U	EPA 608	1.8	0.46	11/29/12 11:41	12/13/12 16:53	1
Surrogate for EPA 608	*Decachlorobiphenyl*		*103 %*	*Limits*	*20-149*			
Surrogate for EPA 608	*Tetrachloro-meta-xylene*		*61 %*	*Limits*	*18-158*			
Semivolatile Analyses								
1,2,4-Trichlorobenzene	ug/L	1.4 U	EPA 625	10	1.4	12/01/12 13:36	12/04/12 04:11	1
1,2-Diphenylhydrazine as Azobenz	ug/L	4.2 U	EPA 625**	10	4.2	12/01/12 13:36	12/04/12 04:11	1
2,4,6-Trichlorophenol	ug/L	2.7 U	EPA 625	10	2.7	12/01/12 13:36	12/04/12 04:11	1
2,4-Dichlorophenol	ug/L	1.5 U	EPA 625	10	1.5	12/01/12 13:36	12/04/12 04:11	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Effluent Wastewater**
Matrix	**Wastewater**
SAL Sample Number	**1213710-02**
Date/Time Collected	**11/28/12 07:00**
Collected by	**E. Willoughby**
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
2,4-Dimethylphenol	ug/L	4.9 U	EPA 625	10	4.9	12/01/12 13:36	12/04/12 04:11	1
2,4-Dinitrophenol	ug/L	1.1 U	EPA 625	21	1.1	12/01/12 13:36	12/04/12 04:11	1
2,4-Dinitrotoluene	ug/L	0.88 U	EPA 625	10	0.88	12/01/12 13:36	12/04/12 04:11	1
2,6-Dinitrotoluene	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
2-Chloronaphthalene	ug/L	2.9 U	EPA 625	10	2.9	12/01/12 13:36	12/04/12 04:11	1
2-Chlorophenol	ug/L	2.9 U	EPA 625	10	2.9	12/01/12 13:36	12/04/12 04:11	1
2-Nitrophenol	ug/L	1.7 U	EPA 625	10	1.7	12/01/12 13:36	12/04/12 04:11	1
3,3-Dichlorobenzidine	ug/L	0.67 U	EPA 625	10	0.67	12/01/12 13:36	12/04/12 04:11	1
4,6-Dinitro-2-methylphenol	ug/L	1.3 U	EPA 625	21	1.3	12/01/12 13:36	12/04/12 04:11	1
4-Bromophenyl phenyl ether	ug/L	0.89 U	EPA 625	10	0.89	12/01/12 13:36	12/04/12 04:11	1
4-Chloro-3-methylphenol	ug/L	3.1 U	EPA 625	10	3.1	12/01/12 13:36	12/04/12 04:11	1
4-Chlorophenyl phenyl ether	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
4-Nitrophenol	ug/L	0.75 U	EPA 625	21	0.75	12/01/12 13:36	12/04/12 04:11	1
Acenaphthene	ug/L	0.89 U	EPA 625	10	0.89	12/01/12 13:36	12/04/12 04:11	1
Acenaphthylene	ug/L	1.0 U	EPA 625	10	1.0	12/01/12 13:36	12/04/12 04:11	1
Anthracene	ug/L	0.30 U	EPA 625	10	0.30	12/01/12 13:36	12/04/12 04:11	1
Benzidine	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
Benzo(a)anthracene	ug/L	0.74 U	EPA 625	10	0.74	12/01/12 13:36	12/04/12 04:11	1
Benzo(a)pyrene	ug/L	0.59 U	EPA 625	10	0.59	12/01/12 13:36	12/04/12 04:11	1
Benzo(b)fluoranthene	ug/L	0.73 U	EPA 625	10	0.73	12/01/12 13:36	12/04/12 04:11	1
Benzo(g,h,i)perylene	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
Benzo(k)fluoranthene	ug/L	1.4 U	EPA 625	10	1.4	12/01/12 13:36	12/04/12 04:11	1
Bis(2-chloroethoxy)methane	ug/L	1.9 U	EPA 625	10	1.9	12/01/12 13:36	12/04/12 04:11	1
Bis(2-chloroethyl)ether	ug/L	3.4 U	EPA 625	10	3.4	12/01/12 13:36	12/04/12 04:11	1
Bis(2-chloroisopropyl) ether	ug/L	0.69 U	EPA 625	10	0.69	12/01/12 13:36	12/04/12 04:11	1
Bis(2-ethylhexyl)phthalate	ug/L	1.2 U	EPA 625	10	1.2	12/01/12 13:36	12/04/12 04:11	1
Butyl benzyl phthalate	ug/L	0.84 U	EPA 625	10	0.84	12/01/12 13:36	12/04/12 04:11	1
Chrysene	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
Dibenzo(a,h)anthracene	ug/L	1.2 U	EPA 625	10	1.2	12/01/12 13:36	12/04/12 04:11	1
Diethyl phthalate	ug/L	0.90 U	EPA 625	10	0.90	12/01/12 13:36	12/04/12 04:11	1
Dimethylphthalate	ug/L	1.6 U	EPA 625	10	1.6	12/01/12 13:36	12/04/12 04:11	1
Di-n-butyl phthalate	ug/L	0.78 U	EPA 625	10	0.78	12/01/12 13:36	12/04/12 04:11	1
Di-n-octylphthalate	ug/L	0.67 U	EPA 625	10	0.67	12/01/12 13:36	12/04/12 04:11	1
Fluoranthene	ug/L	1.2 U	EPA 625	10	1.2	12/01/12 13:36	12/04/12 04:11	1
Fluorene	ug/L	0.87 U	EPA 625	10	0.87	12/01/12 13:36	12/04/12 04:11	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Effluent Wastewater**
Matrix	**Wastewater**
SAL Sample Number	**1213710-02**
Date/Time Collected	**11/28/12 07:00**
Collected by	**E. Willoughby**
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Hexachlorobenzene	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
Hexachlorobutadiene	ug/L	1.8 U	EPA 625	10	1.8	12/01/12 13:36	12/04/12 04:11	1
Hexachlorocyclopentadiene	ug/L	2.5 U	EPA 625	10	2.5	12/01/12 13:36	12/04/12 04:11	1
Hexachloroethane	ug/L	0.61 U	EPA 625	10	0.61	12/01/12 13:36	12/04/12 04:11	1
Indeno(1,2,3-cd)pyrene	ug/L	0.98 U	EPA 625	10	0.98	12/01/12 13:36	12/04/12 04:11	1
Isophorone	ug/L	2.1 U	EPA 625	10	2.1	12/01/12 13:36	12/04/12 04:11	1
Naphthalene	ug/L	0.88 U	EPA 625	10	0.88	12/01/12 13:36	12/04/12 04:11	1
Nitrobenzene	ug/L	1.9 U	EPA 625	10	1.9	12/01/12 13:36	12/04/12 04:11	1
N-Nitrosodimethylamine	ug/L	3.1 U	EPA 625	10	3.1	12/01/12 13:36	12/04/12 04:11	1
N-Nitrosodi-n-propylamine	ug/L	1.7 U	EPA 625	10	1.7	12/01/12 13:36	12/04/12 04:11	1
N-Nitrosodiphenylamine	ug/L	3.3 U	EPA 625	10	3.3	12/01/12 13:36	12/04/12 04:11	1
Pentachlorophenol	ug/L	1.1 U	EPA 625	10	1.1	12/01/12 13:36	12/04/12 04:11	1
Phenanthrene	ug/L	0.95 U	EPA 625	10	0.95	12/01/12 13:36	12/04/12 04:11	1
Phenol	ug/L	1.4 U	EPA 625	10	1.4	12/01/12 13:36	12/04/12 04:11	1
Pyrene	ug/L	1.3 U	EPA 625	10	1.3	12/01/12 13:36	12/04/12 04:11	1
Surrogate for EPA 625	*2,4,6-Tribromophenol*		*96 %*	*Limits*	*10-123*			
Surrogate for EPA 625	*2-Fluorobiphenyl*		*83 %*	*Limits*	*43-116*			
Surrogate for EPA 625	*2-Fluorophenol*		*51 %*	*Limits*	*21-110*			
Surrogate for EPA 625	*Nitrobenzene-d5*		*81 %*	*Limits*	*35-114*			
Surrogate for EPA 625	*Phenol-d5*		*33 %*	*Limits*	*10-110*			
Surrogate for EPA 625	*Terphenyl-d14*		*100 %*	*Limits*	*33-141*			
Inorganics								
Cyanide	mg/L	0.0024 U	SM 4500CN-E	0.020	0.0024	12/04/12 08:05	12/04/12 10:15	1
Phenolics	mg/L	0.0050 U	EPA 420.1	0.080	0.0050	12/04/12 09:47	12/04/12 12:50	1
Metals								
Antimony	mg/L	0.00084	EPA 200.8	0.00050	0.000071	12/04/12 15:26	12/04/12 16:47	1
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	11/29/12 14:30	12/03/12 19:55	1
Beryllium	mg/L	0.000096 U	EPA 200.7	0.0010	0.000096	11/29/12 16:39	12/04/12 18:59	1
Cadmium	mg/L	0.00027 U	EPA 200.8	0.00050	0.00027	11/29/12 14:30	12/03/12 19:55	1
Chromium	mg/L	0.0014 I	EPA 200.8	0.0050	0.00035	11/29/12 14:30	12/03/12 19:55	1
Copper	mg/L	0.00013 U	EPA 200.8	0.00050	0.00013	11/29/12 14:30	12/03/12 19:55	1
Lead	mg/L	0.00025 U	EPA 200.8	0.00050	0.00025	11/29/12 14:30	12/03/12 19:55	1
Mercury	mg/L	0.00010 U	EPA 245.1	0.00050	0.00010	11/30/12 14:00	12/03/12 14:05	1
Nickel	mg/L	0.0034 I	EPA 200.8	0.0050	0.00046	11/29/12 14:30	12/03/12 19:55	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name	Priority Pollutants-Wesley Center WWTF
Sample Description	Effluent Wastewater
Matrix	Wastewater
SAL Sample Number	1213710-02
Date/Time Collected	11/28/12 07:00
Collected by	E. Willoughby
Date/Time Received	11/28/12 14:40

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Selenium	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	12/04/12 15:26	12/04/12 16:47	1
Silver	mg/L	0.0011 U	EPA 200.7	0.020	0.0011	11/29/12 16:39	12/04/12 18:59	1
Thallium	mg/L	0.00024 U	EPA 200.8	0.00050	0.00024	11/29/12 14:30	12/03/12 19:55	1
Zinc	mg/L	0.029	EPA 200.8	0.0050	0.00088	11/29/12 14:30	12/03/12 19:55	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213710-03**
Date/Time Collected	**11/28/12 07:00**
Collected by	
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/kg dry	33 U	EPA 8260	88	33	12/05/12 09:00	12/05/12 14:09	1
1,1,2,2-Tetrachloroethane	ug/kg dry	22 U	EPA 8260	88	22	12/05/12 09:00	12/05/12 14:09	1
1,1,2-Trichloroethane	ug/kg dry	32 U	EPA 8260	88	32	12/05/12 09:00	12/05/12 14:09	1
1,1-Dichloroethane	ug/kg dry	14 U	EPA 8260	88	14	12/05/12 09:00	12/05/12 14:09	1
1,1-Dichloroethene	ug/kg dry	60 U	EPA 8260	88	60	12/05/12 09:00	12/05/12 14:09	1
1,2-Dichlorobenzene	ug/kg dry	26 U	EPA 8260	88	26	12/05/12 09:00	12/05/12 14:09	1
1,2-Dichloroethane	ug/kg dry	26 U	EPA 8260	88	26	12/05/12 09:00	12/05/12 14:09	1
1,2-Dichloropropane	ug/kg dry	31 U	EPA 8260	88	31	12/05/12 09:00	12/05/12 14:09	1
1,3-Dichlorobenzene	ug/kg dry	14 U	EPA 8260	88	14	12/05/12 09:00	12/05/12 14:09	1
1,4-Dichlorobenzene	ug/kg dry	25 U	EPA 8260	88	25	12/05/12 09:00	12/05/12 14:09	1
2-Chloroethylvinyl Ether	ug/kg dry	110 U	EPA 8260	440	110	12/05/12 09:00	12/05/12 14:09	1
Acrolein	ug/kg dry	660 U,J4	EPA 8260	1100	660	12/05/12 09:00	12/05/12 14:09	1
Acrylonitrile	ug/kg dry	220 U	EPA 8260	440	220	12/05/12 09:00	12/05/12 14:09	1
Benzene	ug/kg dry	20 U	EPA 8260	88	20	12/05/12 09:00	12/05/12 14:09	1
Bromodichloromethane	ug/kg dry	31 U	EPA 8260	88	31	12/05/12 09:00	12/05/12 14:09	1
Bromoform	ug/kg dry	33 U	EPA 8260	88	33	12/05/12 09:00	12/05/12 14:09	1
Bromomethane	ug/kg dry	88 U	EPA 8260	88	88	12/05/12 09:00	12/05/12 14:09	1
Carbon tetrachloride	ug/kg dry	29 U	EPA 8260	88	29	12/05/12 09:00	12/05/12 14:09	1
Chlorobenzene	ug/kg dry	15 U	EPA 8260	88	15	12/05/12 09:00	12/05/12 14:09	1
Chloroethane	ug/kg dry	160 U	EPA 8260	180	160	12/05/12 09:00	12/05/12 14:09	1
Chloroform	ug/kg dry	30 U	EPA 8260	88	30	12/05/12 09:00	12/05/12 14:09	1
Chloromethane	ug/kg dry	160 U	EPA 8260	180	160	12/05/12 09:00	12/05/12 14:09	1
cis-1,2-Dichloroethene	ug/kg dry	16 U	EPA 8260	88	16	12/05/12 09:00	12/05/12 14:09	1
cis-1,3-Dichloropropene	ug/kg dry	23 U	EPA 8260	88	23	12/05/12 09:00	12/05/12 14:09	1
Dibromochloromethane	ug/kg dry	27 U	EPA 8260	88	27	12/05/12 09:00	12/05/12 14:09	1
Ethylbenzene	ug/kg dry	52 I	EPA 8260	88	34	12/05/12 09:00	12/05/12 14:09	1
Methylene Chloride	ug/kg dry	30 U	EPA 8260	180	30	12/05/12 09:00	12/05/12 14:09	1
Tetrachloroethene	ug/kg dry	43 U	EPA 8260	88	43	12/05/12 09:00	12/05/12 14:09	1
Toluene	ug/kg dry	130	EPA 8260	88	24	12/05/12 09:00	12/05/12 14:09	1
trans-1,2-Dichloroethene	ug/kg dry	27 U	EPA 8260	88	27	12/05/12 09:00	12/05/12 14:09	1
trans-1,3-Dichloropropene	ug/kg dry	35 U	EPA 8260	88	35	12/05/12 09:00	12/05/12 14:09	1
Trichloroethene	ug/kg dry	23 U	EPA 8260	88	23	12/05/12 09:00	12/05/12 14:09	1
Vinyl chloride	ug/kg dry	120 U	EPA 8260	180	120	12/05/12 09:00	12/05/12 14:09	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213710-03**
Date/Time Collected	**11/28/12 07:00**
Collected by	
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Surrogate for EPA 8260	*1,2-Dichloroethane-d4*	*90 %*	*Limits*	*65-135*				
Surrogate for EPA 8260	*4-Bromofluorobenzene*	*129 %*	*Limits*	*65-135*				
Surrogate for EPA 8260	*Dibromofluoromethane*	*97 %*	*Limits*	*65-135*				
Surrogate for EPA 8260	*Toluene-d8*	*115 %*	*Limits*	*65-135*				
Organo Chlorine Pesticides								
4,4'-DDD	ug/kg dry	0.25 U	EPA 8081	1.2	0.25	11/30/12 11:56	12/13/12 20:16	1
4,4'-DDE	ug/kg dry	0.19 U	EPA 8081	1.2	0.19	11/30/12 11:56	12/13/12 20:16	1
4,4'-DDT	ug/kg dry	0.28 U	EPA 8081	1.2	0.28	11/30/12 11:56	12/13/12 20:16	1
Aldrin	ug/kg dry	0.28 U	EPA 8081	1.2	0.28	11/30/12 11:56	12/13/12 20:16	1
alpha-BHC	ug/kg dry	0.67 U	EPA 8081	1.2	0.67	11/30/12 11:56	12/13/12 20:16	1
beta-BHC	ug/kg dry	0.28 U	EPA 8081	1.2	0.28	11/30/12 11:56	12/13/12 20:16	1
Chlordane	ug/kg dry	2.9 U	EPA 8081	5.9	2.9	11/30/12 11:56	12/13/12 20:16	1
delta-BHC	ug/kg dry	0.16 U	EPA 8081	1.2	0.16	11/30/12 11:56	12/13/12 20:16	1
Dieldrin	ug/kg dry	0.15 U	EPA 8081	1.2	0.15	11/30/12 11:56	12/13/12 20:16	1
Endosulfan I	ug/kg dry	0.12 U	EPA 8081	1.2	0.12	11/30/12 11:56	12/13/12 20:16	1
Endosulfan II	ug/kg dry	0.20 U	EPA 8081	1.2	0.20	11/30/12 11:56	12/13/12 20:16	1
Endosulfan sulfate	ug/kg dry	0.11 U	EPA 8081	1.2	0.11	11/30/12 11:56	12/13/12 20:16	1
Endrin	ug/kg dry	0.16 U	EPA 8081	1.2	0.16	11/30/12 11:56	12/13/12 20:16	1
Endrin Aldehyde	ug/kg dry	0.18 U	EPA 8081	1.2	0.18	11/30/12 11:56	12/13/12 20:16	1
Endrin ketone	ug/kg dry	0.19 U	EPA 8081	1.2	0.19	11/30/12 11:56	12/13/12 20:16	1
gamma-BHC	ug/kg dry	0.20 U	EPA 8081	1.2	0.20	11/30/12 11:56	12/13/12 20:16	1
Heptachlor	ug/kg dry	0.32 U	EPA 8081	1.2	0.32	11/30/12 11:56	12/13/12 20:16	1
Heptachlor epoxide	ug/kg dry	0.19 U	EPA 8081	1.2	0.19	11/30/12 11:56	12/13/12 20:16	1
Methoxychlor	ug/kg dry	1.6 U	EPA 8081	4.7	1.6	11/30/12 11:56	12/13/12 20:16	1
Toxaphene	ug/kg dry	24 U	EPA 8081	59	24	11/30/12 11:56	12/13/12 20:16	1
Surrogate for EPA 8081	*Decachlorobiphenyl*	*125 %*	*Limits*	*20-149*				
Surrogate for EPA 8081	*Tetrachloro-meta-xylene*	*76 %*	*Limits*	*18-158*				
Polychlorinated Biphenyls (PCBs)								
PCB-1016	ug/kg dry	2.6 U	EPA 8082	5.9	2.6	11/30/12 12:00	12/17/12 10:39	1
PCB-1221	ug/kg dry	9.2 U	EPA 8082	12	9.2	11/30/12 12:00	12/17/12 10:39	1
PCB-1232	ug/kg dry	4.2 U	EPA 8082	5.9	4.2	11/30/12 12:00	12/17/12 10:39	1
PCB-1242	ug/kg dry	2.9 U	EPA 8082	5.9	2.9	11/30/12 12:00	12/17/12 10:39	1
PCB-1248	ug/kg dry	4.1 U	EPA 8082	5.9	4.1	11/30/12 12:00	12/17/12 10:39	1
PCB-1254	ug/kg dry	1.9 U	EPA 8082	5.9	1.9	11/30/12 12:00	12/17/12 10:39	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213710-03**
Date/Time Collected	**11/28/12 07:00**
Collected by	
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
PCB-1260	ug/kg dry	1.4 U	EPA 8082	5.9	1.4	11/30/12 12:00	12/17/12 10:39	1
Surrogate for EPA 8082	*Decachlorobiphenyl*		*133 %*	*Limits*	*20-149*			
Surrogate for EPA 8082	*Tetrachloro-meta-xylene*		*106 %*	*Limits*	*24-121*			
Base/Neutral and Acid Extractable Organic Compounds								
1,2,4-Trichlorobenzene	ug/kg dry	6500 U	EPA 8270	22000	6500	11/29/12 16:47	11/30/12 18:05	1
1,2-Dichlorobenzene	ug/kg dry	5700 U	EPA 8270	22000	5700	11/29/12 16:47	11/30/12 18:05	1
1,2-Diphenylhydrazine as Azobenz	ug/kg dry	18000 U	EPA 8270	22000	18000	11/29/12 16:47	11/30/12 18:05	1
1,3-Dichlorobenzene	ug/kg dry	7200 U	EPA 8270	22000	7200	11/29/12 16:47	11/30/12 18:05	1
1,4-Dichlorobenzene	ug/kg dry	8300 U	EPA 8270	22000	8300	11/29/12 16:47	11/30/12 18:05	1
2,4,6-Trichlorophenol	ug/kg dry	11000 U	EPA 8270	56000	11000	11/29/12 16:47	11/30/12 18:05	1
2,4-Dichlorophenol	ug/kg dry	6700 U	EPA 8270	22000	6700	11/29/12 16:47	11/30/12 18:05	1
2,4-Dimethylphenol	ug/kg dry	9900 U	EPA 8270	22000	9900	11/29/12 16:47	11/30/12 18:05	1
2,4-Dinitrophenol	ug/kg dry	8600 U	EPA 8270	110000	8600	11/29/12 16:47	11/30/12 18:05	1
2,4-Dinitrotoluene	ug/kg dry	9600 U	EPA 8270	56000	9600	11/29/12 16:47	11/30/12 18:05	1
2,6-Dinitrotoluene	ug/kg dry	11000 U	EPA 8270**	56000	11000	11/29/12 16:47	11/30/12 18:05	1
2-Chloronaphthalene	ug/kg dry	10000 U	EPA 8270	22000	10000	11/29/12 16:47	11/30/12 18:05	1
2-Chlorophenol	ug/kg dry	7900 U	EPA 8270	22000	7900	11/29/12 16:47	11/30/12 18:05	1
2-Nitrophenol	ug/kg dry	8000 U	EPA 8270	56000	8000	11/29/12 16:47	11/30/12 18:05	1
3,3-Dichlorobenzidine	ug/kg dry	18000 U	EPA 8270	110000	18000	11/29/12 16:47	11/30/12 18:05	1
4,6-Dinitro-2-methylphenol	ug/kg dry	5200 U	EPA 8270	56000	5200	11/29/12 16:47	11/30/12 18:05	1
4-Bromophenyl phenyl ether	ug/kg dry	8500 U	EPA 8270	22000	8500	11/29/12 16:47	11/30/12 18:05	1
4-Chloro-3-methylphenol	ug/kg dry	8200 U	EPA 8270	56000	8200	11/29/12 16:47	11/30/12 18:05	1
4-Chlorophenyl phenyl ether	ug/kg dry	17000 U	EPA 8270	22000	17000	11/29/12 16:47	11/30/12 18:05	1
4-Nitrophenol	ug/kg dry	8500 U	EPA 8270	110000	8500	11/29/12 16:47	11/30/12 18:05	1
Acenaphthene	ug/kg dry	4000 U	EPA 8270	22000	4000	11/29/12 16:47	11/30/12 18:05	1
Acenaphthylene	ug/kg dry	6900 U	EPA 8270	22000	6900	11/29/12 16:47	11/30/12 18:05	1
Anthracene	ug/kg dry	6900 U	EPA 8270	22000	6900	11/29/12 16:47	11/30/12 18:05	1
Benzidine	ug/kg dry	13000 U	EPA 8270	56000	13000	11/29/12 16:47	11/30/12 18:05	1
Benzo(a)anthracene	ug/kg dry	3800 U	EPA 8270	22000	3800	11/29/12 16:47	11/30/12 18:05	1
Benzo(a)pyrene	ug/kg dry	3400 U	EPA 8270	22000	3400	11/29/12 16:47	11/30/12 18:05	1
Benzo(b)fluoranthene	ug/kg dry	2400 U	EPA 8270	22000	2400	11/29/12 16:47	11/30/12 18:05	1
Benzo(g,h,i)perylene	ug/kg dry	6300 U	EPA 8270	56000	6300	11/29/12 16:47	11/30/12 18:05	1
Benzo(k)fluoranthene	ug/kg dry	5000 U	EPA 8270	22000	5000	11/29/12 16:47	11/30/12 18:05	1
Bis(2-chloroethoxy)methane	ug/kg dry	9800 U	EPA 8270	22000	9800	11/29/12 16:47	11/30/12 18:05	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213710-03**
Date/Time Collected	***11/28/12 07:00***
Collected by	
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Bis(2-chloroethyl)ether	ug/kg dry	9900 U	EPA 8270	22000	9900	11/29/12 16:47	11/30/12 18:05	1
Bis(2-chloroisopropyl) ether	ug/kg dry	4800 U	EPA 8270	22000	4800	11/29/12 16:47	11/30/12 18:05	1
Bis(2-ethylhexyl)phthalate	ug/kg dry	44,000 I	EPA 8270	56000	3700	11/29/12 16:47	11/30/12 18:05	1
Butyl benzyl phthalate	ug/kg dry	4000 U	EPA 8270	56000	4000	11/29/12 16:47	11/30/12 18:05	1
Chrysene	ug/kg dry	2000 U	EPA 8270	22000	2000	11/29/12 16:47	11/30/12 18:05	1
Dibenzo(a,h)anthracene	ug/kg dry	8900 U	EPA 8270	56000	8900	11/29/12 16:47	11/30/12 18:05	1
Diethyl phthalate	ug/kg dry	13000 U	EPA 8270	22000	13000	11/29/12 16:47	11/30/12 18:05	1
Dimethylphthalate	ug/kg dry	4500 U	EPA 8270	22000	4500	11/29/12 16:47	11/30/12 18:05	1
Di-n-butyl phthalate	ug/kg dry	4800 U	EPA 8270**	56000	4800	11/29/12 16:47	11/30/12 18:05	1
Di-n-octylphthalate	ug/kg dry	4700 U	EPA 8270**	110000	4700	11/29/12 16:47	11/30/12 18:05	1
Fluoranthene	ug/kg dry	4300 U	EPA 8270	22000	4300	11/29/12 16:47	11/30/12 18:05	1
Fluorene	ug/kg dry	13000 U	EPA 8270	22000	13000	11/29/12 16:47	11/30/12 18:05	1
Hexachlorobenzene	ug/kg dry	9100 U	EPA 8270	22000	9100	11/29/12 16:47	11/30/12 18:05	1
Hexachlorobutadiene	ug/kg dry	11000 U	EPA 8270	22000	11000	11/29/12 16:47	11/30/12 18:05	1
Hexachlorocyclopentadiene	ug/kg dry	17000 U	EPA 8270	22000	17000	11/29/12 16:47	11/30/12 18:05	1
Hexachloroethane	ug/kg dry	16000 U	EPA 8270	22000	16000	11/29/12 16:47	11/30/12 18:05	1
Indeno(1,2,3-cd)pyrene	ug/kg dry	6300 U	EPA 8270	56000	6300	11/29/12 16:47	11/30/12 18:05	1
Isophorone	ug/kg dry	12000 U	EPA 8270	22000	12000	11/29/12 16:47	11/30/12 18:05	1
Naphthalene	ug/kg dry	4500 U	EPA 8270	22000	4500	11/29/12 16:47	11/30/12 18:05	1
Nitrobenzene	ug/kg dry	9900 U	EPA 8270	22000	9900	11/29/12 16:47	11/30/12 18:05	1
N-Nitrosodimethylamine	ug/kg dry	17000 U	EPA 8270	56000	17000	11/29/12 16:47	11/30/12 18:05	1
N-Nitrosodi-n-propylamine	ug/kg dry	33000 U	EPA 8270	110000	33000	11/29/12 16:47	11/30/12 18:05	1
N-Nitrosodiphenylamine	ug/kg dry	13000 U	EPA 8270	56000	13000	11/29/12 16:47	11/30/12 18:05	1
Pentachlorophenol	ug/kg dry	8700 U	EPA 8270	110000	8700	11/29/12 16:47	11/30/12 18:05	1
Phenanthrene	ug/kg dry	4900 U	EPA 8270	22000	4900	11/29/12 16:47	11/30/12 18:05	1
Phenol	ug/kg dry	7800 U	EPA 8270	22000	7800	11/29/12 16:47	11/30/12 18:05	1
Pyrene	ug/kg dry	5300 U	EPA 8270	22000	5300	11/29/12 16:47	11/30/12 18:05	1
Surrogate for EPA 8270	*2,4,6-Tribromophenol*		*100 %*	*Limits*	*10-123*			
Surrogate for EPA 8270	*2-Fluorobiphenyl*		*91 %*	*Limits*	*43-116*			
Surrogate for EPA 8270	*2-Fluorophenol*		*95 %*	*Limits*	*21-110*			
Surrogate for EPA 8270	*Nitrobenzene-d5*		*88 %*	*Limits*	*35-114*			
Surrogate for EPA 8270	*Phenol-d5*		*95 %*	*Limits*	*40-100*			
Surrogate for EPA 8270	*Terphenyl-d14*		*102 %*	*Limits*	*33-141*			
Inorganics								
Cyanide	mg/kg dry	0.0050 U	EPA 9010**	0.020	0.0050	12/05/12 10:07	12/05/12 12:27	1

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Laboratory Report

Project Name **Priority Pollutants-Wesley Center WWTF**

Sample Description	**Belt Press Sludge Cake**
Matrix	**Sludge**
SAL Sample Number	**1213710-03**
Date/Time Collected	**11/28/12 07:00**
Collected by	
Date/Time Received	**11/28/12 14:40**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Phenolics	mg/kg dry	1700 U	EPA 9065**	12000	1700	12/05/12 11:39	12/06/12 13:39	1
Total Solids	% by wt	0.86	EPA 160.3/SM 2540G	0.01	0.01	11/30/12 16:06	12/03/12 08:03	1
Metals								
Antimony	mg/kg dry	5.8 U	EPA 6010	23	5.8	11/30/12 10:27	12/05/12 14:10	1
Arsenic	mg/kg dry	5.8 U	EPA 6010	23	5.8	11/30/12 10:27	12/05/12 14:10	1
Beryllium	mg/kg dry	0.24	EPA 6010	0.23	0.058	11/30/12 10:27	12/05/12 14:10	1
Cadmium	mg/kg dry	1.2 I	EPA 6010	2.3	0.58	11/30/12 10:27	12/05/12 14:10	1
Chromium	mg/kg dry	21	EPA 6010	9.3	2.3	11/30/12 10:27	12/05/12 14:10	1
Copper	mg/kg dry	1,200	EPA 6010	7.0	1.7	11/30/12 10:27	12/05/12 14:10	1
Lead	mg/kg dry	32	EPA 6010	23	5.8	11/30/12 10:27	12/05/12 14:10	1
Mercury	mg/kg dry	1.2 I	EPA 7471	4.6	0.23	11/29/12 09:57	11/29/12 12:42	1
Nickel	mg/kg dry	30	EPA 6010	2.3	0.58	11/30/12 10:27	12/05/12 14:10	1
Selenium	mg/kg dry	29 U	EPA 6010	120	29	11/30/12 10:27	12/05/12 14:10	1
Silver	mg/kg dry	8.9	EPA 6010	2.3	0.58	11/30/12 10:27	12/05/12 14:10	1
Thallium	mg/kg dry	2.9 U	EPA 6010	12	2.9	11/30/12 10:27	12/05/12 14:10	1
Zinc	mg/kg dry	1,300	EPA 6010	7.0	1.7	11/30/12 10:27	12/05/12 14:10	1

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20511 - VOC - Prep										
Blank (BL20511-BLK1)				Prepared & Analyzed: 12/05/12						
Acrolein	6.0 U	10	6.0	ug/kg wet						
Acrylonitrile	2.0 U	4.0	2.0	ug/kg wet						
Benzene	0.2 U	0.8	0.2	ug/kg wet						
Bromodichloromethane	0.3 U	0.8	0.3	ug/kg wet						
Bromoform	0.3 U	0.8	0.3	ug/kg wet						
Bromomethane	0.8 U	0.8	0.8	ug/kg wet						
Carbon tetrachloride	0.3 U	0.8	0.3	ug/kg wet						
Chlorobenzene	0.1 U	0.8	0.1	ug/kg wet						
Chloroethane	1.5 U	1.6	1.5	ug/kg wet						
2-Chloroethylvinyl Ether	1.0 U	4.0	1.0	ug/kg wet						
Chloroform	0.3 U	0.8	0.3	ug/kg wet						
Chloromethane	1.5 U	1.6	1.5	ug/kg wet						
Dibromochloromethane	0.2 U	0.8	0.2	ug/kg wet						
1,3-Dichlorobenzene	0.1 U	0.8	0.1	ug/kg wet						
1,4-Dichlorobenzene	0.2 U	0.8	0.2	ug/kg wet						
1,1-Dichloroethane	0.1 U	0.8	0.1	ug/kg wet						
1,2-Dichloroethane	0.2 U	0.8	0.2	ug/kg wet						
1,1-Dichloroethene	0.6 U	0.8	0.6	ug/kg wet						
cis-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/kg wet						
trans-1,2-Dichloroethene	0.2 U	0.8	0.2	ug/kg wet						
1,2-Dichloropropane	0.3 U	0.8	0.3	ug/kg wet						
1,2-Dichlorobenzene	0.2 U	0.8	0.2	ug/kg wet						
cis-1,3-Dichloropropene	0.2 U	0.8	0.2	ug/kg wet						
trans-1,3-Dichloropropene	0.3 U	0.8	0.3	ug/kg wet						
Ethylbenzene	0.3 U	0.8	0.3	ug/kg wet						
Methylene Chloride	0.3 U	1.6	0.3	ug/kg wet						
1,1,2,2-Tetrachloroethane	0.2 U	0.8	0.2	ug/kg wet						
Tetrachloroethene	0.4 U	0.8	0.4	ug/kg wet						
Toluene	0.2 U	0.8	0.2	ug/kg wet						
1,1,1-Trichloroethane	0.3 U	0.8	0.3	ug/kg wet						
1,1,2-Trichloroethane	0.3 U	0.8	0.3	ug/kg wet						
Trichloroethene	0.2 U	0.8	0.2	ug/kg wet						
Vinyl chloride	1.1 U	1.6	1.1	ug/kg wet						
Surrogate: 4-Bromofluorobenzene	*Result: 21.1*			*ug/L*	*20*		*105*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 19.5*			*ug/L*	*20*		*97*	*65-135*		
Surrogate: Toluene-d8	*Result: 20.5*			*ug/L*	*20*		*103*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 20.1*			*ug/L*	*20*		*100*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20511 - VOC - Prep										
LCS (BL20511-BS1)					Prepared & Analyzed: 12/05/12					
Acrolein	95.3	10	6.0	ug/kg wet	100		95	70-130		
Acrylonitrile	85.6	4.0	2.0	ug/kg wet	100		86	70-130		
Benzene	18.0	0.8	0.2	ug/kg wet	20		90	70-130		
Bromodichloromethane	18.2	0.8	0.3	ug/kg wet	20		91	70-130		
Bromoform	20.1	0.8	0.3	ug/kg wet	20		100	70-130		
Bromomethane	34.4	0.8	0.8	ug/kg wet	40		86	70-130		
Carbon tetrachloride	18.4	0.8	0.3	ug/kg wet	20		92	70-130		
Chlorobenzene	18.8	0.8	0.1	ug/kg wet	20		94	70-130		
Chloroethane	35.6	1.6	1.5	ug/kg wet	40		89	70-130		
2-Chloroethylvinyl Ether	38.7	4.0	1.0	ug/kg wet	40		97	70-130		
Chloroform	18.0	0.8	0.3	ug/kg wet	20		90	70-130		
Chloromethane	37.9	1.6	1.5	ug/kg wet	40		95	70-130		
Dibromochloromethane	19.1	0.8	0.2	ug/kg wet	20		95	70-130		
1,3-Dichlorobenzene	19.5	0.8	0.1	ug/kg wet	20		97	70-130		
1,4-Dichlorobenzene	20.2	0.8	0.2	ug/kg wet	20		101	70-130		
1,1-Dichloroethane	18.4	0.8	0.1	ug/kg wet	20		92	70-130		
1,2-Dichloroethane	20.2	0.8	0.2	ug/kg wet	20		101	70-130		
1,1-Dichloroethene	17.6	0.8	0.6	ug/kg wet	20		88	70-130		
cis-1,2-Dichloroethene	17.5	0.8	0.2	ug/kg wet	20		87	70-130		
trans-1,2-Dichloroethene	18.5	0.8	0.2	ug/kg wet	20		92	70-130		
1,2-Dichloropropane	18.1	0.8	0.3	ug/kg wet	20		90	70-130		
1,2-Dichlorobenzene	20.2	0.8	0.2	ug/kg wet	20		101	70-130		
cis-1,3-Dichloropropene	19.3	0.8	0.2	ug/kg wet	20		97	70-130		
trans-1,3-Dichloropropene	19.7	0.8	0.3	ug/kg wet	20		99	70-130		
Ethylbenzene	18.6	0.8	0.3	ug/kg wet	20		93	70-130		
Methylene Chloride	19.6	1.6	0.3	ug/kg wet	20		98	70-130		
1,1,2,2-Tetrachloroethane	18.3	0.8	0.2	ug/kg wet	20		91	70-130		
Tetrachloroethene	19.6	0.8	0.4	ug/kg wet	20		98	70-130		
Toluene	17.4	0.8	0.2	ug/kg wet	20		87	70-130		
1,1,1-Trichloroethane	18.3	0.8	0.3	ug/kg wet	20		92	70-130		
1,1,2-Trichloroethane	18.7	0.8	0.3	ug/kg wet	20		94	70-130		
Trichloroethene	18.1	0.8	0.2	ug/kg wet	20		91	70-130		
Vinyl chloride	34.5	1.6	1.1	ug/kg wet	40		86	70-130		
Surrogate: 4-Bromofluorobenzene	*Result: 20.6*			*ug/L*	*20*		*103*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 20.6*			*ug/L*	*20*		*103*	*65-135*		
Surrogate: Toluene-d8	*Result: 20.8*			*ug/L*	*20*		*104*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 20.0*			*ug/L*	*20*		*100*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20511 - VOC - Prep										
Matrix Spike (BL20511-MS1)		**Source: 1213710-03**			Prepared & Analyzed: 12/05/12					
Acrolein	640 U,J2	1100	640	ug/kg dry	11000	ND		2-140		
Acrylonitrile	5,880	420	210	ug/kg dry	11000	ND	55	50-150		
Benzene	1,880	85	19	ug/kg dry	2100	ND	89	65-135		
Bromodichloromethane	1,630	85	30	ug/kg dry	2100	ND	77	60-135		
Bromoform	1,360	85	32	ug/kg dry	2100	ND	64	45-150		
Bromomethane	3,500	85	85	ug/kg dry	4200	ND	82	10-180		
Carbon tetrachloride	1,810	85	28	ug/kg dry	2100	ND	85	55-145		
Chlorobenzene	2,090	85	15	ug/kg dry	2100	ND	98	65-130		
Chloroethane	3,170	170	160	ug/kg dry	4200	ND	75	20-175		
2-Chloroethylvinyl Ether	3,160	420	110	ug/kg dry	4200	ND	74	65-135		
Chloroform	1,950	85	29	ug/kg dry	2100	ND	92	65-135		
Chloromethane	3,700	170	160	ug/kg dry	4200	ND	87	40-140		
Dibromochloromethane	1,560	85	27	ug/kg dry	2100	ND	73	55-140		
1,3-Dichlorobenzene	2,340	85	14	ug/kg dry	2100	ND	110	65-135		
1,4-Dichlorobenzene	2,330	85	24	ug/kg dry	2100	ND	110	65-135		
1,1-Dichloroethane	1,930	85	14	ug/kg dry	2100	ND	91	65-135		
1,2-Dichloroethane	1,830	85	25	ug/kg dry	2100	ND	86	60-145		
1,1-Dichloroethene	1,830	85	58	ug/kg dry	2100	ND	86	55-150		
cis-1,2-Dichloroethene	1,840	85	16	ug/kg dry	2100	ND	87	55-135		
trans-1,2-Dichloroethene	1,970	85	27	ug/kg dry	2100	ND	93	55-145		
1,2-Dichloropropane	1,850	85	30	ug/kg dry	2100	ND	87	65-125		
1,2-Dichlorobenzene	2,160	85	25	ug/kg dry	2100	ND	102	65-135		
cis-1,3-Dichloropropene	1,540	85	22	ug/kg dry	2100	ND	73	65-135		
trans-1,3-Dichloropropene	1,820	85	34	ug/kg dry	2100	ND	86	55-140		
Ethylbenzene	2,090	85	33	ug/kg dry	2100	52.0	96	65-135		
Methylene Chloride	2,020	170	29	ug/kg dry	2100	ND	95	40-155		
1,1,2,2-Tetrachloroethane	1,550	85	21	ug/kg dry	2100	ND	73	40-145		
Tetrachloroethene	2,210	85	41	ug/kg dry	2100	ND	104	55-150		
Toluene	2,030	85	23	ug/kg dry	2100	126	90	60-135		
1,1,1-Trichloroethane	1,930	85	32	ug/kg dry	2100	ND	91	55-145		
1,1,2-Trichloroethane	1,880	85	31	ug/kg dry	2100	ND	88	50-140		
Trichloroethene	1,900	85	22	ug/kg dry	2100	ND	89	70-130		
Vinyl chloride	3,510	170	120	ug/kg dry	4200	ND	83	45-140		
Surrogate: 4-Bromofluorobenzene		*Result: 25.5*		*ug/L*	*20*		*128*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4		*Result: 17.8*		*ug/L*	*20*		*89*	*65-135*		
Surrogate: Toluene-d8		*Result: 22.0*		*ug/L*	*20*		*110*	*65-135*		
Surrogate: Dibromofluoromethane		*Result: 19.5*		*ug/L*	*20*		*97*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Volatile Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20511 - VOC - Prep										
Matrix Spike Dup (BL20511-MSD1)		**Source: 1213710-03**			Prepared & Analyzed: 12/05/12					
Acrolein	620 U,J2	1000	620	ug/kg dry	10000	ND		2-140		40
Acrylonitrile	4,980	410	210	ug/kg dry	10000	ND	48	50-150	17	40
Benzene	1,770	83	19	ug/kg dry	2100	ND	85	65-135	6	40
Bromodichloromethane	1,230	83	29	ug/kg dry	2100	ND	60	60-135	27	40
Bromoform	922	83	31	ug/kg dry	2100	ND	45	45-150	39	40
Bromomethane	3,100	83	83	ug/kg dry	4100	ND	75	10-180	12	40
Carbon tetrachloride	1,400	83	27	ug/kg dry	2100	ND	68	55-145	26	40
Chlorobenzene	1,940	83	14	ug/kg dry	2100	ND	94	65-130	7	40
Chloroethane	2,510	170	150	ug/kg dry	4100	ND	61	20-175	23	40
2-Chloroethylvinyl Ether	3,400	410	100	ug/kg dry	4100	ND	82	65-135	7	40
Chloroform	1,930	83	28	ug/kg dry	2100	ND	93	65-135	1	40
Chloromethane	3,490	170	150	ug/kg dry	4100	ND	85	40-140	6	40
Dibromochloromethane	*1,120*	*83*	*26*	*ug/kg dry*	*2100*	*ND*	*54*	*55-140*	33	40
1,3-Dichlorobenzene	2,280	83	13	ug/kg dry	2100	ND	111	65-135	2	40
1,4-Dichlorobenzene	2,340	83	24	ug/kg dry	2100	ND	113	65-135	0.6	40
1,1-Dichloroethane	1,800	83	13	ug/kg dry	2100	ND	87	65-135	7	40
1,2-Dichloroethane	1,780	83	25	ug/kg dry	2100	ND	86	60-145	3	40
1,1-Dichloroethene	1,790	83	57	ug/kg dry	2100	ND	87	55-150	2	40
cis-1,2-Dichloroethene	1,740	83	15	ug/kg dry	2100	ND	84	55-135	6	40
trans-1,2-Dichloroethene	1,850	83	26	ug/kg dry	2100	ND	89	55-145	7	40
1,2-Dichloropropane	1,720	83	29	ug/kg dry	2100	ND	83	65-125	7	40
1,2-Dichlorobenzene	2,110	83	25	ug/kg dry	2100	ND	102	65-135	3	40
cis-1,3-Dichloropropene	1,110	83	22	ug/kg dry	2100	ND	54	65-135	32	40
trans-1,3-Dichloropropene	1,450	83	33	ug/kg dry	2100	ND	70	55-140	23	40
Ethylbenzene	2,010	83	32	ug/kg dry	2100	52.0	95	65-135	3	40
Methylene Chloride	2,050	170	28	ug/kg dry	2100	ND	99	40-155	2	40
1,1,2,2-Tetrachloroethane	1,460	83	21	ug/kg dry	2100	ND	71	40-145	6	40
Tetrachloroethene	2,160	83	40	ug/kg dry	2100	ND	104	55-150	3	40
Toluene	1,970	83	23	ug/kg dry	2100	126	89	60-135	3	40
1,1,1-Trichloroethane	1,800	83	31	ug/kg dry	2100	ND	87	55-145	7	40
1,1,2-Trichloroethane	1,850	83	30	ug/kg dry	2100	ND	90	50-140	2	40
Trichloroethene	1,760	83	22	ug/kg dry	2100	ND	85	70-130	8	40
Vinyl chloride	3,250	170	110	ug/kg dry	4100	ND	79	45-140	8	40
Surrogate: 4-Bromofluorobenzene	*Result: 26.6*			*ug/L*	*20*		*133*	*65-135*		
Surrogate: 1,2-Dichloroethane-d4	*Result: 17.9*			*ug/L*	*20*		*89*	*65-135*		
Surrogate: Toluene-d8	*Result: 22.1*			*ug/L*	*20*		*111*	*65-135*		
Surrogate: Dibromofluoromethane	*Result: 19.2*			*ug/L*	*20*		*96*	*65-135*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22926 - 608 Pest/PCB LLE Extraction										
Blank (BK22926-BLK1)					Prepared: 11/29/12 Analyzed: 12/13/12					
Aldrin	0.005 U	0.040	0.005	ug/L						
alpha-BHC	0.008 U	0.040	0.008	ug/L						
beta-BHC	0.008 U	0.040	0.008	ug/L						
delta-BHC	0.006 U	0.040	0.006	ug/L						
gamma-BHC	0.009 U	0.040	0.009	ug/L						
Chlordane	0.050 U	0.20	0.050	ug/L						
4,4'-DDD	0.010 U	0.040	0.010	ug/L						
4,4'-DDE	0.007 U	0.040	0.007	ug/L						
4,4'-DDT	0.009 U	0.040	0.009	ug/L						
Dieldrin	0.009 U	0.040	0.009	ug/L						
Endosulfan I	0.010 U	0.040	0.010	ug/L						
Endosulfan II	0.008 U	0.040	0.008	ug/L						
Endosulfan sulfate	0.009 U	0.040	0.009	ug/L						
Endrin	0.010 U	0.040	0.010	ug/L						
Endrin Aldehyde	0.010 U	0.040	0.010	ug/L						
Heptachlor	0.008 U	0.040	0.008	ug/L						
Heptachlor epoxide	0.010 U	0.040	0.010	ug/L						
Methoxychlor	0.047 U	0.16	0.047	ug/L						
PCB-1016	0.20 U	0.80	0.20	ug/L						
PCB-1221	0.20 U	0.80	0.20	ug/L						
PCB-1232	0.20 U	0.80	0.20	ug/L						
PCB-1242	0.20 U	0.80	0.20	ug/L						
PCB-1248	0.20 U	0.80	0.20	ug/L						
PCB-1254	0.20 U	0.80	0.20	ug/L						
PCB-1260	0.20 U	0.80	0.20	ug/L						
Toxaphene	0.50 U	2.0	0.50	ug/L						
Surrogate: Decachlorobiphenyl	*Result: 0.195*			*ug/L*	*0.20*		*97*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 0.160*			*ug/L*	*0.20*		*80*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22926 - 608 Pest/PCB LLE Extraction										
LCS (BK22926-BS1)					Prepared: 11/29/12 Analyzed: 12/13/12					
Aldrin	0.142	0.040	0.005	ug/L	0.20		71	42-122		
alpha-BHC	0.151	0.040	0.008	ug/L	0.20		76	37-134		
beta-BHC	0.164	0.040	0.008	ug/L	0.20		82	17-147		
delta-BHC	0.123	0.040	0.006	ug/L	0.20		62	19-140		
gamma-BHC	0.157	0.040	0.009	ug/L	0.20		78	32-137		
4,4'-DDD	0.167	0.040	0.010	ug/L	0.20		84	31-141		
4,4'-DDE	0.163	0.040	0.007	ug/L	0.20		82	30-145		
4,4'-DDT	0.173	0.040	0.009	ug/L	0.20		86	25-160		
Dieldrin	0.166	0.040	0.009	ug/L	0.20		83	36-146		
Endosulfan I	0.163	0.040	0.010	ug/L	0.20		82	45-153		
Endosulfan II	0.170	0.040	0.008	ug/L	0.20		85	1-202		
Endosulfan sulfate	0.166	0.040	0.009	ug/L	0.20		83	26-144		
Endrin	0.168	0.040	0.010	ug/L	0.20		84	30-147		
Endrin Aldehyde	0.172	0.040	0.010	ug/L	0.20		86	39-141		
Heptachlor	0.151	0.040	0.008	ug/L	0.20		76	34-111		
Heptachlor epoxide	0.163	0.040	0.010	ug/L	0.20		82	37-142		
Methoxychlor	0.714	0.16	0.047	ug/L	0.80		89	37-158		
PCB-1016	0.20 U	0.80	0.20	ug/L				50-114		
PCB-1221	0.20 U	0.80	0.20	ug/L				15-178		
PCB-1232	0.20 U	0.80	0.20	ug/L				10-215		
PCB-1242	0.20 U	0.80	0.20	ug/L				39-150		
PCB-1248	0.20 U	0.80	0.20	ug/L				38-158		
PCB-1254	0.20 U	0.80	0.20	ug/L				29-131		
PCB-1260	0.20 U	0.80	0.20	ug/L				8-127		
Toxaphene	0.50 U	2.0	0.50	ug/L				41-126		
Surrogate: Decachlorobiphenyl	*Result: 0.206*			*ug/L*	*0.20*		*103*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 0.158*			*ug/L*	*0.20*		*79*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22926 - 608 Pest/PCB LLE Extraction										
LCS Dup (BK22926-BSD1)					Prepared: 11/29/12 Analyzed: 12/13/12					
Aldrin	0.147	0.040	0.005	ug/L	0.20		74	42-122	3	200
alpha-BHC	0.156	0.040	0.008	ug/L	0.20		78	37-134	3	200
beta-BHC	0.170	0.040	0.008	ug/L	0.20		85	17-147	4	200
delta-BHC	0.126	0.040	0.006	ug/L	0.20		63	19-140	2	200
gamma-BHC	0.162	0.040	0.009	ug/L	0.20		81	32-137	3	200
4,4'-DDD	0.174	0.040	0.010	ug/L	0.20		87	31-141	4	200
4,4'-DDE	0.167	0.040	0.007	ug/L	0.20		84	30-145	2	200
4,4'-DDT	0.178	0.040	0.009	ug/L	0.20		89	25-160	3	200
Dieldrin	0.170	0.040	0.009	ug/L	0.20		85	36-146	2	200
Endosulfan I	0.170	0.040	0.010	ug/L	0.20		85	45-153	4	200
Endosulfan II	0.174	0.040	0.008	ug/L	0.20		87	1-202	2	200
Endosulfan sulfate	0.170	0.040	0.009	ug/L	0.20		85	26-144	2	200
Endrin	0.172	0.040	0.010	ug/L	0.20		86	30-147	2	200
Endrin Aldehyde	0.176	0.040	0.010	ug/L	0.20		88	39-141	2	200
Heptachlor	0.155	0.040	0.008	ug/L	0.20		78	34-111	3	200
Heptachlor epoxide	0.168	0.040	0.010	ug/L	0.20		84	37-142	3	200
Methoxychlor	0.737	0.16	0.047	ug/L	0.80		92	37-158	3	200
PCB-1016	0.20 U	0.80	0.20	ug/L				50-114		200
PCB-1221	0.20 U	0.80	0.20	ug/L				15-178		200
PCB-1232	0.20 U	0.80	0.20	ug/L				10-215		200
PCB-1242	0.20 U	0.80	0.20	ug/L				39-150		200
PCB-1248	0.20 U	0.80	0.20	ug/L				38-158		200
PCB-1254	0.20 U	0.80	0.20	ug/L				29-131		200
PCB-1260	0.20 U	0.80	0.20	ug/L				8-127		200
Toxaphene	0.50 U	2.0	0.50	ug/L				41-126		200
Surrogate: Decachlorobiphenyl		*Result: 0.192*		*ug/L*	*0.20*		*96*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 0.167*		*ug/L*	*0.20*		*84*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22926 - 608 Pest/PCB LLE Extraction										
Matrix Spike (BK22926-MS1)		**Source: 1213710-01**			Prepared: 11/29/12 Analyzed: 01/05/13					
Aldrin	0.115	0.11	0.013	ug/L	0.19	ND	62	42-122		
alpha-BHC	0.139	0.11	0.023	ug/L	0.19	ND	75	37-134		
beta-BHC	0.134	0.11	0.021	ug/L	0.19	ND	72	17-147		
delta-BHC	0.165	0.11	0.016	ug/L	0.19	ND	89	19-140		
gamma-BHC	0.153	0.11	0.024	ug/L	0.19	ND	83	32-137		
4,4'-DDD	0.152	0.11	0.027	ug/L	0.19	ND	82	31-141		
4,4'-DDE	0.0955 I	0.11	0.019	ug/L	0.19	ND	52	30-145		
4,4'-DDT	0.191	0.11	0.026	ug/L	0.19	ND	103	25-160		
Dieldrin	0.145	0.11	0.026	ug/L	0.19	ND	78	36-146		
Endosulfan I	0.109 I	0.11	0.027	ug/L	0.19	ND	59	45-153		
Endosulfan II	0.0942 I	0.11	0.023	ug/L	0.19	ND	51	1-202		
Endosulfan sulfate	0.0860 I	0.11	0.026	ug/L	0.19	ND	46	26-144		
Endrin	0.138	0.11	0.028	ug/L	0.19	ND	75	30-147		
Endrin Aldehyde	0.0316 I,J2	0.11	0.027	ug/L	0.19	ND	17	39-141		
Heptachlor	0.154	0.11	0.021	ug/L	0.19	ND	83	34-111		
Heptachlor epoxide	*0.221*	*0.11*	*0.027*	*ug/L*	*0.19*	*ND*	*119*	*37-142*		
Methoxychlor	0.419 I	0.44	0.13	ug/L	0.74	ND	57	37-158		
PCB-1016	0.56 U	2.2	0.56	ug/L		ND		50-114		
PCB-1221	0.56 U	2.2	0.56	ug/L		ND		15-178		
PCB-1232	0.56 U	2.2	0.56	ug/L		ND		10-215		
PCB-1242	0.56 U	2.2	0.56	ug/L		ND		39-150		
PCB-1248	0.56 U	2.2	0.56	ug/L		ND		38-158		
PCB-1254	0.56 U	2.2	0.56	ug/L		ND		29-131		
PCB-1260	0.56 U	2.2	0.56	ug/L		ND		8-127		
Toxaphene	1.4 U	5.6	1.4	ug/L		ND		41-126		
Surrogate: Decachlorobiphenyl		*Result: 0.156*		*ug/L*	*0.19*		*84*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 0.218*		*ug/L*	*0.19*		*118*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23020 - Pesticides by EPA 8011										
Blank (BK23020-BLK1)					Prepared: 11/30/12 Analyzed: 12/13/12					
Aldrin	0.24 U	1.0	0.24	ug/kg wet						
alpha-BHC	0.57 U	1.0	0.57	ug/kg wet						
beta-BHC	0.24 U	1.0	0.24	ug/kg wet						
delta-BHC	0.14 U	1.0	0.14	ug/kg wet						
gamma-BHC	0.17 U	1.0	0.17	ug/kg wet						
Chlordane	2.5 U	5.0	2.5	ug/kg wet						
4,4'-DDD	0.21 U	1.0	0.21	ug/kg wet						
4,4'-DDE	0.16 U	1.0	0.16	ug/kg wet						
4,4'-DDT	0.24 U	1.0	0.24	ug/kg wet						
Dieldrin	0.13 U	1.0	0.13	ug/kg wet						
Endosulfan I	0.10 U	1.0	0.10	ug/kg wet						
Endosulfan II	0.17 U	1.0	0.17	ug/kg wet						
Endosulfan sulfate	0.090 U	1.0	0.090	ug/kg wet						
Endrin	0.14 U	1.0	0.14	ug/kg wet						
Endrin Aldehyde	0.15 U	1.0	0.15	ug/kg wet						
Endrin ketone	0.16 U	1.0	0.16	ug/kg wet						
Heptachlor	0.27 U	1.0	0.27	ug/kg wet						
Heptachlor epoxide	0.16 U	1.0	0.16	ug/kg wet						
Methoxychlor	1.4 U	4.0	1.4	ug/kg wet						
Toxaphene	20 U	50	20	ug/kg wet						
Surrogate: Decachlorobiphenyl	*Result: 10*			*ug/kg wet*	*10*		*103*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 8.9*			*ug/kg wet*	*10*		*89*	*18-158*		
LCS (BK23020-BS1)					Prepared: 11/30/12 Analyzed: 12/13/12					
Aldrin	8.0	1.0	0.24	ug/kg wet	10		80	55-116		
alpha-BHC	8.4	1.0	0.57	ug/kg wet	10		84	53-118		
beta-BHC	8.0	1.0	0.24	ug/kg wet	10		80	65-115		
delta-BHC	5.3	1.0	0.14	ug/kg wet	10		53	26-141		
gamma-BHC	7.5	1.0	0.17	ug/kg wet	10		75	56-121		
4,4'-DDD	8.2	1.0	0.21	ug/kg wet	10		82	78-107		
4,4'-DDE	8.1	1.0	0.16	ug/kg wet	10		81	71-113		
4,4'-DDT	7.4	1.0	0.24	ug/kg wet	10		74	62-141		
Dieldrin	8.2	1.0	0.13	ug/kg wet	10		82	71-115		
Endosulfan I	7.8	1.0	0.10	ug/kg wet	10		78	58-122		
Endosulfan II	8.1	1.0	0.17	ug/kg wet	10		81	58-130		
Endosulfan sulfate	8.2	1.0	0.090	ug/kg wet	10		82	67-119		
Endrin	8.2	1.0	0.14	ug/kg wet	10		82	70-114		
Endrin Aldehyde	8.2	1.0	0.15	ug/kg wet	10		82	70-115		
Endrin ketone	9.0	1.0	0.16	ug/kg wet	10		90	65-126		
Heptachlor	7.9	1.0	0.27	ug/kg wet	10		79	62-121		
Heptachlor epoxide	7.6	1.0	0.16	ug/kg wet	10		76	68-113		
Methoxychlor	34	4.0	1.4	ug/kg wet	40		84	61-130		
Surrogate: Decachlorobiphenyl	*Result: 10*			*ug/kg wet*	*10*		*100*	*20-149*		
Surrogate: Tetrachloro-meta-xylene	*Result: 9.0*			*ug/kg wet*	*10*		*90*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Organo Chlorine Pesticides - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23020 - Pesticides by EPA 8011										
Matrix Spike (BK23020-MS1)		**Source: 1213533-06**			Prepared: 11/30/12 Analyzed: 12/13/12					
Aldrin	11	1.2	0.29	ug/kg dry	12	ND	88	40-121		
alpha-BHC	10	1.2	0.70	ug/kg dry	12	ND	84	63-110		
beta-BHC	10	1.2	0.29	ug/kg dry	12	ND	83	49-125		
delta-BHC	8.3	1.2	0.17	ug/kg dry	12	ND	68	57-108		
gamma-BHC	10	1.2	0.21	ug/kg dry	12	ND	83	56-121		
4,4'-DDD	11	1.2	0.26	ug/kg dry	12	ND	90	42-142		
4,4'-DDE	10	1.2	0.20	ug/kg dry	12	ND	85	50-126		
4,4'-DDT	9.9	1.2	0.29	ug/kg dry	12	ND	81	34-147		
Dieldrin	10	1.2	0.16	ug/kg dry	12	ND	84	64-123		
Endosulfan I	10	1.2	0.12	ug/kg dry	12	ND	84	52-130		
Endosulfan II	10	1.2	0.21	ug/kg dry	12	ND	85	44-135		
Endosulfan sulfate	11	1.2	0.11	ug/kg dry	12	ND	88	39-147		
Endrin	11	1.2	0.17	ug/kg dry	12	ND	86	26-162		
Endrin Aldehyde	11	1.2	0.18	ug/kg dry	12	ND	88	25-111		
Endrin ketone	12	1.2	0.20	ug/kg dry	12	ND	96	70-130		
Heptachlor	11	1.2	0.33	ug/kg dry	12	ND	86	32-143		
Heptachlor epoxide	10	1.2	0.20	ug/kg dry	12	ND	84	48-127		
Methoxychlor	38	4.9	1.7	ug/kg dry	49	ND	79	15-175		
Surrogate: Decachlorobiphenyl		*Result: 13*		*ug/kg dry*	*12*		*105*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 13*		*ug/kg dry*	*12*		*105*	*18-158*		
Matrix Spike Dup (BK23020-MSD1)		**Source: 1213533-06**			Prepared: 11/30/12 Analyzed: 12/13/12					
Aldrin	10	1.2	0.29	ug/kg dry	12	ND	86	40-121	2	35
alpha-BHC	10	1.2	0.70	ug/kg dry	12	ND	83	63-110	2	37
beta-BHC	10	1.2	0.29	ug/kg dry	12	ND	84	49-125	1	18
delta-BHC	7.0	1.2	0.17	ug/kg dry	12	ND	58	57-108	16	32
gamma-BHC	10	1.2	0.21	ug/kg dry	12	ND	82	56-121	1	23
4,4'-DDD	11	1.2	0.26	ug/kg dry	12	ND	88	42-142	2	32
4,4'-DDE	10	1.2	0.20	ug/kg dry	12	ND	84	50-126	1	33
4,4'-DDT	9.7	1.2	0.29	ug/kg dry	12	ND	80	34-147	2	34
Dieldrin	10	1.2	0.16	ug/kg dry	12	ND	83	64-123	0.5	48
Endosulfan I	10	1.2	0.12	ug/kg dry	12	ND	82	52-130	3	29
Endosulfan II	10	1.2	0.21	ug/kg dry	12	ND	84	44-135	1	41
Endosulfan sulfate	10	1.2	0.11	ug/kg dry	12	ND	84	39-147	5	48
Endrin	10	1.2	0.17	ug/kg dry	12	ND	86	26-162	0.1	35
Endrin Aldehyde	11	1.2	0.18	ug/kg dry	12	ND	88	25-111	0.9	60
Endrin ketone	11	1.2	0.20	ug/kg dry	12	ND	92	70-130	3	20
Heptachlor	10	1.2	0.33	ug/kg dry	12	ND	85	32-143	2	30
Heptachlor epoxide	10	1.2	0.20	ug/kg dry	12	ND	83	48-127	1	32
Methoxychlor	39	4.9	1.7	ug/kg dry	49	ND	80	15-175	1	45
Surrogate: Decachlorobiphenyl		*Result: 13*		*ug/kg dry*	*12*		*104*	*20-149*		
Surrogate: Tetrachloro-meta-xylene		*Result: 11*		*ug/kg dry*	*12*		*87*	*18-158*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Polychlorinated Biphenyls (PCBs) - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23021 - Extraction for PCBs by EPA 8082										
Blank (BK23021-BLK1)				Prepared: 11/30/12 Analyzed: 12/17/12						
PCB-1016	2.2 U	5.0	2.2	ug/kg wet						
PCB-1221	7.8 U	10	7.8	ug/kg wet						
PCB-1232	3.6 U	5.0	3.6	ug/kg wet						
PCB-1242	2.5 U	5.0	2.5	ug/kg wet						
PCB-1248	3.5 U	5.0	3.5	ug/kg wet						
PCB-1254	1.6 U	5.0	1.6	ug/kg wet						
PCB-1260	1.2 U	5.0	1.2	ug/kg wet						
Surrogate: Tetrachloro-meta-xylene		*Result: 12*		*ug/kg wet*	*10*		*118*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 11*		*ug/kg wet*	*10*		*109*	*20-149*		
LCS (BK23021-BS1)				Prepared: 11/30/12 Analyzed: 12/17/12						
PCB-1016	110	5.0	2.2	ug/kg wet	100		107	25-145		
PCB-1260	130	5.0	1.2	ug/kg wet	100		130	30-145		
Surrogate: Tetrachloro-meta-xylene		*Result: 9.1*		*ug/kg wet*	*10*		*91*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 11*		*ug/kg wet*	*10*		*108*	*20-149*		
Matrix Spike (BK23021-MS1)		**Source: 1213710-03**		Prepared: 11/30/12 Analyzed: 12/17/12						
PCB-1016	13,000	580	250	ug/kg dry	12000	ND	112	25-145		
PCB-1260	15,000	580	140	ug/kg dry	12000	ND	130	30-145		
Surrogate: Tetrachloro-meta-xylene		*Result: 1300*		*ug/kg dry*	*1200*		*115*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 1200*		*ug/kg dry*	*1200*		*107*	*20-149*		
Matrix Spike Dup (BK23021-MSD1)		**Source: 1213710-03**		Prepared: 11/30/12 Analyzed: 12/17/12						
PCB-1016	12,000	580	250	ug/kg dry	12000	ND	107	25-145	5	20
PCB-1260	15,000	580	140	ug/kg dry	12000	ND	130	30-145	0	19
Surrogate: Tetrachloro-meta-xylene		*Result: 1100*		*ug/kg dry*	*1200*		*96*	*24-121*		
Surrogate: Decachlorobiphenyl		*Result: 1200*		*ug/kg dry*	*1200*		*107*	*20-149*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
Blank (BK22946-BLK1)					Prepared: 11/29/12 Analyzed: 11/30/12					
Acenaphthene	36 U	200	36	ug/kg wet						
Acenaphthylene	62 U	200	62	ug/kg wet						
Anthracene	62 U	200	62	ug/kg wet						
Benzidine	120 U	500	120	ug/kg wet						
Benzo(a)anthracene	34 U	200	34	ug/kg wet						
Benzo(b)fluoranthene	22 U	200	22	ug/kg wet						
Benzo(k)fluoranthene	45 U	200	45	ug/kg wet						
Benzo(g,h,i)perylene	57 U	500	57	ug/kg wet						
Benzo(a)pyrene	31 U	200	31	ug/kg wet						
Bis(2-chloroethoxy)methane	88 U	200	88	ug/kg wet						
Bis(2-chloroethyl)ether	89 U	200	89	ug/kg wet						
Bis(2-chloroisopropyl) ether	43 U	200	43	ug/kg wet						
Bis(2-ethylhexyl)phthalate	33 U	500	33	ug/kg wet						
4-Bromophenyl phenyl ether	76 U	200	76	ug/kg wet						
Butyl benzyl phthalate	36 U	500	36	ug/kg wet						
4-Chloro-3-methylphenol	74 U	500	74	ug/kg wet						
2-Chloronaphthalene	91 U	200	91	ug/kg wet						
2-Chlorophenol	71 U	200	71	ug/kg wet						
4-Chlorophenyl phenyl ether	150 U	200	150	ug/kg wet						
Chrysene	18 U	200	18	ug/kg wet						
Dibenzo(a,h)anthracene	80 U	500	80	ug/kg wet						
Di-n-butyl phthalate	43 U	500	43	ug/kg wet						
Di-n-octylphthalate	42 U	1000	42	ug/kg wet						
1,2-Dichlorobenzene	51 U	200	51	ug/kg wet						
1,3-Dichlorobenzene	65 U	200	65	ug/kg wet						
1,4-Dichlorobenzene	75 U	200	75	ug/kg wet						
3,3-Dichlorobenzidine	160 U	1000	160	ug/kg wet						
2,4-Dichlorophenol	60 U	200	60	ug/kg wet						
Diethyl phthalate	120 U	200	120	ug/kg wet						
2,4-Dimethylphenol	89 U	200	89	ug/kg wet						
Dimethylphthalate	40 U	200	40	ug/kg wet						
4,6-Dinitro-2-methylphenol	47 U	500	47	ug/kg wet						
2,4-Dinitrophenol	77 U	1000	77	ug/kg wet						
2,4-Dinitrotoluene	86 U	500	86	ug/kg wet						
2,6-Dinitrotoluene	100 U	500	100	ug/kg wet						
1,2-Diphenylhydrazine as Azobenzene	160 U	200	160	ug/kg wet						
Fluoranthene	39 U	200	39	ug/kg wet						
Fluorene	120 U	200	120	ug/kg wet						
Hexachlorobenzene	82 U	200	82	ug/kg wet						
Hexachlorobutadiene	95 U	200	95	ug/kg wet						
Hexachlorocyclopentadiene	150 U	200	150	ug/kg wet						
Hexachloroethane	140 U	200	140	ug/kg wet						
Indeno(1,2,3-cd)pyrene	57 U	500	57	ug/kg wet						
Isophorone	110 U	200	110	ug/kg wet						

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
Blank (BK22946-BLK1)					Prepared: 11/29/12 Analyzed: 11/30/12					
Naphthalene	40 U	200	40	ug/kg wet						
Nitrobenzene	89 U	200	89	ug/kg wet						
2-Nitrophenol	72 U	500	72	ug/kg wet						
4-Nitrophenol	76 U	1000	76	ug/kg wet						
N-Nitrosodimethylamine	150 U	500	150	ug/kg wet						
N-Nitrosodiphenylamine	120 U	500	120	ug/kg wet						
N-Nitrosodi-n-propylamine	300 U	1000	300	ug/kg wet						
Pentachlorophenol	78 U	1000	78	ug/kg wet						
Phenanthrene	44 U	200	44	ug/kg wet						
Phenol	70 U	200	70	ug/kg wet						
Pyrene	48 U	200	48	ug/kg wet						
1,2,4-Trichlorobenzene	58 U	200	58	ug/kg wet						
2,4,6-Trichlorophenol	100 U	500	100	ug/kg wet						
Surrogate: 2-Fluorobiphenyl	*Result: 2400*			*ug/kg wet*	*2500*		*94*	*43-116*		
Surrogate: 2-Fluorophenol	*Result: 4800*			*ug/kg wet*	*5000*		*96*	*21-110*		
Surrogate: Nitrobenzene-d5	*Result: 2200*			*ug/kg wet*	*2500*		*89*	*35-114*		
Surrogate: Phenol-d5	*Result: 4600*			*ug/kg wet*	*5000*		*92*	*40-100*		
Surrogate: Terphenyl-d14	*Result: 2500*			*ug/kg wet*	*2500*		*98*	*33-141*		
Surrogate: 2,4,6-Tribromophenol	*Result: 4600*			*ug/kg wet*	*5000*		*91*	*10-123*		
LCS (BK22946-BS1)					Prepared: 11/29/12 Analyzed: 11/30/12					
Acenaphthene	5,000	200	36	ug/kg wet	5000		100	45-110		
Acenaphthylene	5,500 J2	200	62	ug/kg wet	5000		109	45-105		
Anthracene	5,100	200	62	ug/kg wet	5000		102	55-105		
Benzidine	1,500	500	120	ug/kg wet	5000		30	0-200		
Benzo(a)anthracene	5,300	200	34	ug/kg wet	5000		107	50-130		
Benzo(b)fluoranthene	5,100	200	22	ug/kg wet	5000		102	45-115		
Benzo(k)fluoranthene	4,600	200	45	ug/kg wet	5000		91	45-125		
Benzo(g,h,i)perylene	4,600	500	57	ug/kg wet	5000		91	40-125		
Benzo(a)pyrene	5,100	200	31	ug/kg wet	5000		102	50-110		
Bis(2-chloroethoxy)methane	5,000	200	88	ug/kg wet	5000		100	45-110		
Bis(2-chloroethyl)ether	4,800	200	89	ug/kg wet	5000		96	40-105		
Bis(2-chloroisopropyl) ether	4,800	200	43	ug/kg wet	5000		96	20-115		
Bis(2-ethylhexyl)phthalate	5,800	500	33	ug/kg wet	5000		117	45-125		
4-Bromophenyl phenyl ether	5,200	200	76	ug/kg wet	5000		104	45-115		
Butyl benzyl phthalate	6,100	500	36	ug/kg wet	5000		121	50-125		
4-Chloro-3-methylphenol	4,900	500	74	ug/kg wet	5000		98	45-115		
2-Chloronaphthalene	5,100	200	91	ug/kg wet	5000		102	45-105		
2-Chlorophenol	4,900	200	71	ug/kg wet	5000		98	45-105		
4-Chlorophenyl phenyl ether	5,000	200	150	ug/kg wet	5000		99	45-110		
Chrysene	5,000	200	18	ug/kg wet	5000		100	55-110		
Dibenzo(a,h)anthracene	5,000	500	80	ug/kg wet	5000		100	40-125		
Di-n-butyl phthalate	5,200	500	43	ug/kg wet	5000		103	55-110		
Di-n-octylphthalate	5,000	1000	42	ug/kg wet	5000		99	40-130		
1,2-Dichlorobenzene	4,600	200	51	ug/kg wet	5000		92	0-200		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
LCS (BK22946-BS1)				Prepared: 11/29/12 Analyzed: 11/30/12						
1,3-Dichlorobenzene	4,500	200	65	ug/kg wet				0-200		
1,4-Dichlorobenzene	4,700	200	75	ug/kg wet	5000		94	0-200		
3,3-Dichlorobenzidine	3,800	1000	160	ug/kg wet	5000		76	10-130		
2,4-Dichlorophenol	4,900	200	60	ug/kg wet	5000		98	45-110		
Diethyl phthalate	5,200	200	120	ug/kg wet	5000		104	50-115		
2,4-Dimethylphenol	5,500 J2	200	89	ug/kg wet	5000		110	30-105		
Dimethylphthalate	5,100	200	40	ug/kg wet	5000		103	50-110		
4,6-Dinitro-2-methylphenol	5,200	500	47	ug/kg wet	5000		105	30-135		
2,4-Dinitrophenol	6,100	1000	77	ug/kg wet	5000		121	15-130		
2,4-Dinitrotoluene	5,100	500	86	ug/kg wet	5000		102	50-115		
2,6-Dinitrotoluene	4,800	500	100	ug/kg wet	5000		96	50-110		
1,2-Diphenylhydrazine as Azobenzene	4,600	200	160	ug/kg wet	5000		92	0-200		
Fluoranthene	5,100	200	39	ug/kg wet	5000		101	55-115		
Fluorene	5,100	200	120	ug/kg wet	5000		103	50-110		
Hexachlorobenzene	4,900	200	82	ug/kg wet	5000		98	45-120		
Hexachlorobutadiene	5,300	200	95	ug/kg wet	5000		106	40-115		
Hexachlorocyclopentadiene	5,400	200	150	ug/kg wet	5000		108	0-200		
Hexachloroethane	4,600	200	140	ug/kg wet	5000		92	35-110		
Indeno(1,2,3-cd)pyrene	5,100	500	57	ug/kg wet	5000		102	40-120		
Isophorone	4,800	200	110	ug/kg wet	5000		96	45-110		
Naphthalene	4,800	200	40	ug/kg wet	5000		96	40-105		
Nitrobenzene	4,700	200	89	ug/kg wet	5000		94	40-115		
2-Nitrophenol	4,800	500	72	ug/kg wet	5000		97	40-110		
4-Nitrophenol	4,900	1000	76	ug/kg wet	5000		99	15-140		
N-Nitrosodimethylamine	4,700	500	150	ug/kg wet	5000		95	20-115		
N-Nitrosodiphenylamine	4,200	500	120	ug/kg wet	5000		83	50-115		
N-Nitrosodi-n-propylamine	5,400	1000	300	ug/kg wet	5000		108	40-115		
Pentachlorophenol	5,100	1000	78	ug/kg wet	5000		102	25-120		
Phenanthrene	5,100	200	44	ug/kg wet	5000		102	50-110		
Phenol	4,400	200	70	ug/kg wet	5000		88	40-100		
Pyrene	5,700	200	48	ug/kg wet	5000		114	45-125		
1,2,4-Trichlorobenzene	4,500	200	58	ug/kg wet	5000		90	45-110		
2,4,6-Trichlorophenol	5,300	500	100	ug/kg wet	5000		106	45-110		
Surrogate: 2-Fluorobiphenyl		*Result: 2500*		*ug/kg wet*	*2500*		*100*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 5000*		*ug/kg wet*	*5000*		*100*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 2400*		*ug/kg wet*	*2500*		*96*	*35-114*		
Surrogate: Phenol-d5		*Result: 4800*		*ug/kg wet*	*5000*		*97*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 2600*		*ug/kg wet*	*2500*		*106*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 5100*		*ug/kg wet*	*5000*		*102*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike (BK22946-MS1)		**Source: 1213601-02**			Prepared: 11/29/12 Analyzed: 11/30/12					
Acenaphthene	5,200	220	40	ug/kg dry	5500	ND	94	45-110		
Acenaphthylene	5,700	220	68	ug/kg dry	5500	ND	103	45-105		
Anthracene	5,400	220	68	ug/kg dry	5500	ND	98	55-105		
Benzidine	1,900	550	130	ug/kg dry	5500	ND	34	0-200		
Benzo(a)anthracene	5,500	220	38	ug/kg dry	5500	ND	99	50-130		
Benzo(b)fluoranthene	5,500	220	24	ug/kg dry	5500	ND	99	45-115		
Benzo(k)fluoranthene	4,800	220	50	ug/kg dry	5500	ND	88	45-125		
Benzo(g,h,i)perylene	4,800	550	63	ug/kg dry	5500	ND	87	40-125		
Benzo(a)pyrene	5,300	220	34	ug/kg dry	5500	ND	97	50-110		
Bis(2-chloroethoxy)methane	5,500	220	97	ug/kg dry	5500	ND	99	45-110		
Bis(2-chloroethyl)ether	4,900	220	98	ug/kg dry	5500	ND	89	40-105		
Bis(2-chloroisopropyl) ether	5,100	220	47	ug/kg dry	5500	ND	93	20-115		
Bis(2-ethylhexyl)phthalate	5,900	550	36	ug/kg dry	5500	ND	107	45-125		
4-Bromophenyl phenyl ether	5,500	220	84	ug/kg dry	5500	ND	100	45-115		
Butyl benzyl phthalate	6,200	550	40	ug/kg dry	5500	ND	113	50-125		
4-Chloro-3-methylphenol	5,300	550	82	ug/kg dry	5500	ND	96	45-115		
2-Chloronaphthalene	5,500	220	100	ug/kg dry	5500	ND	99	45-105		
2-Chlorophenol	5,200	220	78	ug/kg dry	5500	ND	94	45-105		
4-Chlorophenyl phenyl ether	5,200	220	170	ug/kg dry	5500	ND	95	45-110		
Chrysene	5,400	220	20	ug/kg dry	5500	ND	97	55-110		
Dibenzo(a,h)anthracene	5,300	550	88	ug/kg dry	5500	ND	97	40-125		
Di-n-butyl phthalate	5,500	550	47	ug/kg dry	5500	ND	100	55-110		
Di-n-octylphthalate	5,300	1100	46	ug/kg dry	5500	ND	95	40-130		
1,2-Dichlorobenzene	4,900	220	56	ug/kg dry	5500	ND	90	0-200		
1,3-Dichlorobenzene	4,800	220	72	ug/kg dry		ND		0-200		
1,4-Dichlorobenzene	5,000	220	83	ug/kg dry	5500	ND	90	0-200		
3,3-Dichlorobenzidine	3,700	1100	180	ug/kg dry	5500	ND	67	10-130		
2,4-Dichlorophenol	5,300	220	66	ug/kg dry	5500	ND	95	45-110		
Diethyl phthalate	5,400	220	130	ug/kg dry	5500	ND	97	50-115		
2,4-Dimethylphenol	5,800 J2	220	98	ug/kg dry	5500	ND	105	30-105		
Dimethylphthalate	5,500	220	44	ug/kg dry	5500	ND	99	50-110		
4,6-Dinitro-2-methylphenol	5,800	550	52	ug/kg dry	5500	ND	105	30-135		
2,4-Dinitrophenol	7,000	1100	85	ug/kg dry	5500	ND	128	15-130		
2,4-Dinitrotoluene	5,400	550	95	ug/kg dry	5500	ND	98	50-115		
2,6-Dinitrotoluene	5,200	550	110	ug/kg dry	5500	ND	95	50-110		
1,2-Diphenylhydrazine as Azobenzene	4,900	220	180	ug/kg dry	5500	ND	88	0-200		
Fluoranthene	5,400	220	43	ug/kg dry	5500	ND	98	55-115		
Fluorene	5,500	220	130	ug/kg dry	5500	ND	99	50-110		
Hexachlorobenzene	5,200	220	91	ug/kg dry	5500	ND	94	45-120		
Hexachlorobutadiene	5,800	220	100	ug/kg dry	5500	ND	104	40-115		
Hexachlorocyclopentadiene	6,000	220	170	ug/kg dry	5500	ND	108	0-200		
Hexachloroethane	5,000	220	150	ug/kg dry	5500	ND	91	35-110		
Indeno(1,2,3-cd)pyrene	5,300	550	63	ug/kg dry	5500	ND	96	40-120		
Isophorone	5,100	220	120	ug/kg dry	5500	ND	93	45-110		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike (BK22946-MS1)		**Source: 1213601-02**			Prepared: 11/29/12 Analyzed: 11/30/12					
Naphthalene	5,200	220	44	ug/kg dry	5500	400	88	40-105		
Nitrobenzene	5,100	220	98	ug/kg dry	5500	ND	93	40-115		
2-Nitrophenol	5,300	550	79	ug/kg dry	5500	ND	96	40-110		
4-Nitrophenol	5,100	1100	84	ug/kg dry	5500	ND	93	15-140		
N-Nitrosodimethylamine	5,200	550	170	ug/kg dry	5500	ND	94	20-115		
N-Nitrosodiphenylamine	4,400	550	130	ug/kg dry	5500	ND	81	50-115		
N-Nitrosodi-n-propylamine	5,500	1100	330	ug/kg dry	5500	ND	99	40-115		
Pentachlorophenol	5,500	1100	86	ug/kg dry	5500	ND	99	25-120		
Phenanthrene	5,400	220	49	ug/kg dry	5500	ND	98	50-110		
Phenol	4,600	220	77	ug/kg dry	5500	ND	83	40-100		
Pyrene	5,900	220	53	ug/kg dry	5500	ND	107	45-125		
1,2,4-Trichlorobenzene	4,900	220	64	ug/kg dry	5500	ND	89	45-110		
2,4,6-Trichlorophenol	5,600	550	110	ug/kg dry	5500	ND	102	45-110		
Surrogate: 2-Fluorobiphenyl		*Result: 2600*		*ug/kg dry*	*2800*		*94*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 5200*		*ug/kg dry*	*5500*		*95*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 2400*		*ug/kg dry*	*2800*		*89*	*35-114*		
Surrogate: Phenol-d5		*Result: 5000*		*ug/kg dry*	*5500*		*90*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 2600*		*ug/kg dry*	*2800*		*96*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 5400*		*ug/kg dry*	*5500*		*99*	*10-123*		
Matrix Spike Dup (BK22946-MSD1)		**Source: 1213601-02**			Prepared: 11/29/12 Analyzed: 11/30/12					
Acenaphthene	5,000	220	40	ug/kg dry	5500	ND	90	45-110	4	31
Acenaphthylene	5,400	220	68	ug/kg dry	5500	ND	98	45-105	5	31
Anthracene	5,200	220	68	ug/kg dry	5500	ND	95	55-105	3	27
Benzidine	2,000	550	130	ug/kg dry	5500	ND	36	0-200	8	200
Benzo(a)anthracene	5,500	220	38	ug/kg dry	5500	ND	99	50-130	0.4	29
Benzo(b)fluoranthene	5,500	220	24	ug/kg dry	5500	ND	99	45-115	0.2	34
Benzo(k)fluoranthene	4,800	220	50	ug/kg dry	5500	ND	86	45-125	1	39
Benzo(g,h,i)perylene	4,700	550	63	ug/kg dry	5500	ND	86	40-125	0.7	44
Benzo(a)pyrene	5,300	220	34	ug/kg dry	5500	ND	96	50-110	0.9	31
Bis(2-chloroethoxy)methane	5,200	220	97	ug/kg dry	5500	ND	94	45-110	6	33
Bis(2-chloroethyl)ether	4,900	220	98	ug/kg dry	5500	ND	89	40-105	0	34
Bis(2-chloroisopropyl) ether	4,900	220	47	ug/kg dry	5500	ND	89	20-115	4	47
Bis(2-ethylhexyl)phthalate	5,800	550	36	ug/kg dry	5500	ND	105	45-125	3	40
4-Bromophenyl phenyl ether	5,300	220	84	ug/kg dry	5500	ND	97	45-115	3	35
Butyl benzyl phthalate	6,200	550	40	ug/kg dry	5500	ND	113	50-125	0.2	37
4-Chloro-3-methylphenol	5,100	550	82	ug/kg dry	5500	ND	93	45-115	3	33
2-Chloronaphthalene	5,100	220	100	ug/kg dry	5500	ND	92	45-105	7	30
2-Chlorophenol	5,100	220	78	ug/kg dry	5500	ND	93	45-105	0.2	31
4-Chlorophenyl phenyl ether	5,000	220	170	ug/kg dry	5500	ND	90	45-110	5	33
Chrysene	5,200	220	20	ug/kg dry	5500	ND	94	55-110	3	30
Dibenzo(a,h)anthracene	5,200	550	88	ug/kg dry	5500	ND	94	40-125	3	42
Di-n-butyl phthalate	5,200	550	47	ug/kg dry	5500	ND	94	55-110	6	27
Di-n-octylphthalate	5,200	1100	46	ug/kg dry	5500	ND	94	40-130	1	46
1,2-Dichlorobenzene	4,800	220	56	ug/kg dry	5500	ND	87	0-200	3	200

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Base/Neutral and Acid Extractable Organic Compounds - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22946 - Extraction of Semivolatiles for GCMS analysis										
Matrix Spike Dup (BK22946-MSD1)		**Source: 1213601-02**			Prepared: 11/29/12 Analyzed: 11/30/12					
1,3-Dichlorobenzene	4,800	220	72	ug/kg dry		ND		0-200	0.5	200
1,4-Dichlorobenzene	5,000	220	83	ug/kg dry	5500	ND	91	0-200	1	200
3,3-Dichlorobenzidine	3,500	1100	180	ug/kg dry	5500	ND	64	10-130	5	60
2,4-Dichlorophenol	5,100	220	66	ug/kg dry	5500	ND	92	45-110	3	33
Diethyl phthalate	5,200	220	130	ug/kg dry	5500	ND	94	50-115	3	32
2,4-Dimethylphenol	5,400	220	98	ug/kg dry	5500	ND	98	30-105	7	36
Dimethylphthalate	5,200	220	44	ug/kg dry	5500	ND	94	50-110	6	31
4,6-Dinitro-2-methylphenol	5,600	550	52	ug/kg dry	5500	ND	102	30-135	2	54
2,4-Dinitrophenol	6,700	1100	85	ug/kg dry	5500	ND	121	15-130	5	60
2,4-Dinitrotoluene	5,200	550	95	ug/kg dry	5500	ND	94	50-115	4	34
2,6-Dinitrotoluene	4,900	550	110	ug/kg dry	5500	ND	88	50-110	7	32
1,2-Diphenylhydrazine as Azobenzene	4,700	220	180	ug/kg dry	5500	ND	86	0-200	2	200
Fluoranthene	5,100	220	43	ug/kg dry	5500	ND	92	55-115	6	30
Fluorene	5,300	220	130	ug/kg dry	5500	ND	95	50-110	4	30
Hexachlorobenzene	5,100	220	91	ug/kg dry	5500	ND	93	45-120	1	36
Hexachlorobutadiene	5,400	220	100	ug/kg dry	5500	ND	97	40-115	7	39
Hexachlorocyclopentadiene	5,200	220	170	ug/kg dry	5500	ND	95	0-200	13	200
Hexachloroethane	4,800	220	150	ug/kg dry	5500	ND	87	35-110	5	38
Indeno(1,2,3-cd)pyrene	5,300	550	63	ug/kg dry	5500	ND	96	40-120	0.9	41
Isophorone	4,900	220	120	ug/kg dry	5500	ND	89	45-110	5	34
Naphthalene	5,000	220	44	ug/kg dry	5500	400	83	40-105	5	33
Nitrobenzene	4,900	220	98	ug/kg dry	5500	ND	89	40-115	4	36
2-Nitrophenol	5,000	550	79	ug/kg dry	5500	ND	91	40-110	5	35
4-Nitrophenol	5,100	1100	84	ug/kg dry	5500	ND	92	15-140	1	61
N-Nitrosodimethylamine	5,000	550	170	ug/kg dry	5500	ND	91	20-115	4	48
N-Nitrosodiphenylamine	4,300	550	130	ug/kg dry	5500	ND	78	50-115	3	34
N-Nitrosodi-n-propylamine	5,300	1100	330	ug/kg dry	5500	ND	95	40-115	4	37
Pentachlorophenol	5,500	1100	86	ug/kg dry	5500	ND	99	25-120	0.4	47
Phenanthrene	5,200	220	49	ug/kg dry	5500	ND	94	50-110	4	30
Phenol	4,600	220	77	ug/kg dry	5500	ND	84	40-100	1	31
Pyrene	5,800	220	53	ug/kg dry	5500	ND	106	45-125	1	39
1,2,4-Trichlorobenzene	4,700	220	64	ug/kg dry	5500	ND	84	45-110	5	34
2,4,6-Trichlorophenol	5,300	550	110	ug/kg dry	5500	ND	97	45-110	6	33
Surrogate: 2-Fluorobiphenyl		*Result: 2500*		*ug/kg dry*	*2800*		*91*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 5200*		*ug/kg dry*	*5500*		*94*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 2500*		*ug/kg dry*	*2800*		*89*	*35-114*		
Surrogate: Phenol-d5		*Result: 4900*		*ug/kg dry*	*5500*		*90*	*40-100*		
Surrogate: Terphenyl-d14		*Result: 2700*		*ug/kg dry*	*2800*		*98*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 5400*		*ug/kg dry*	*5500*		*97*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
Blank (BL20107-BLK1)					Prepared: 12/01/12 Analyzed: 12/03/12					
Acenaphthene	0.85 U	10	0.85	ug/L						
Acenaphthylene	0.97 U	10	0.97	ug/L						
Anthracene	0.29 U	10	0.29	ug/L						
Benzidine	1.3 U	10	1.3	ug/L						
Benzo(a)anthracene	0.71 U	10	0.71	ug/L						
Benzo(b)fluoranthene	0.70 U	10	0.70	ug/L						
Benzo(k)fluoranthene	1.3 U	10	1.3	ug/L						
Benzo(g,h,i)perylene	1.2 U	10	1.2	ug/L						
Benzo(a)pyrene	0.57 U	10	0.57	ug/L						
1,2-Diphenylhydrazine as Azobenzene	4.0 U	10	4.0	ug/L						
Bis(2-chloroethoxy)methane	1.8 U	10	1.8	ug/L						
Bis(2-chloroethyl)ether	3.3 U	10	3.3	ug/L						
Bis(2-chloroisopropyl) ether	0.66 U	10	0.66	ug/L						
Bis(2-ethylhexyl)phthalate	1.1 U	10	1.1	ug/L						
4-Bromophenyl phenyl ether	0.86 U	10	0.86	ug/L						
Butyl benzyl phthalate	0.81 U	10	0.81	ug/L						
4-Chloro-3-methylphenol	3.0 U	10	3.0	ug/L						
2-Chloronaphthalene	2.7 U	10	2.7	ug/L						
2-Chlorophenol	2.7 U	10	2.7	ug/L						
4-Chlorophenyl phenyl ether	1.2 U	10	1.2	ug/L						
Chrysene	1.2 U	10	1.2	ug/L						
Dibenzo(a,h)anthracene	1.1 U	10	1.1	ug/L						
3,3-Dichlorobenzidine	0.65 U	10	0.65	ug/L						
2,4-Dichlorophenol	1.5 U	10	1.5	ug/L						
Diethyl phthalate	0.87 U	10	0.87	ug/L						
2,4-Dimethylphenol	4.7 U	10	4.7	ug/L						
Dimethylphthalate	1.5 U	10	1.5	ug/L						
4,6-Dinitro-2-methylphenol	1.2 U	20	1.2	ug/L						
2,4-Dinitrophenol	1.0 U	20	1.0	ug/L						
2,4-Dinitrotoluene	0.85 U	10	0.85	ug/L						
2,6-Dinitrotoluene	1.2 U	10	1.2	ug/L						
Di-n-butyl phthalate	0.75 U	10	0.75	ug/L						
Di-n-octylphthalate	0.64 U	10	0.64	ug/L						
Fluoranthene	1.2 U	10	1.2	ug/L						
Fluorene	0.84 U	10	0.84	ug/L						
Hexachlorobenzene	1.2 U	10	1.2	ug/L						
Hexachlorobutadiene	1.8 U	10	1.8	ug/L						
Hexachlorocyclopentadiene	2.4 U	10	2.4	ug/L						
Hexachloroethane	0.58 U	10	0.58	ug/L						
Indeno(1,2,3-cd)pyrene	0.94 U	10	0.94	ug/L						
Isophorone	2.0 U	10	2.0	ug/L						
Naphthalene	0.84 U	10	0.84	ug/L						
Nitrobenzene	1.8 U	10	1.8	ug/L						
2-Nitrophenol	1.6 U	10	1.6	ug/L						

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
Blank (BL20107-BLK1)					Prepared: 12/01/12 Analyzed: 12/03/12					
4-Nitrophenol	0.72 U	20	0.72	ug/L						
N-Nitrosodimethylamine	3.0 U	10	3.0	ug/L						
N-Nitrosodiphenylamine	3.2 U	10	3.2	ug/L						
N-Nitrosodi-n-propylamine	1.6 U	10	1.6	ug/L						
Pentachlorophenol	1.1 U	10	1.1	ug/L						
Phenanthrene	0.92 U	10	0.92	ug/L						
Phenol	1.4 U	10	1.4	ug/L						
Pyrene	1.2 U	10	1.2	ug/L						
1,2,4-Trichlorobenzene	1.4 U	10	1.4	ug/L						
2,4,6-Trichlorophenol	2.6 U	10	2.6	ug/L						
Surrogate: 2-Fluorobiphenyl	*Result: 41.1*			*ug/L*	*50*		*82*	*43-116*		
Surrogate: 2-Fluorophenol	*Result: 60.3*			*ug/L*	*100*		*60*	*21-110*		
Surrogate: Nitrobenzene-d5	*Result: 40.4*			*ug/L*	*50*		*81*	*35-114*		
Surrogate: Phenol-d5	*Result: 37.5*			*ug/L*	*100*		*38*	*10-110*		
Surrogate: Terphenyl-d14	*Result: 51.3*			*ug/L*	*50*		*103*	*33-141*		
Surrogate: 2,4,6-Tribromophenol	*Result: 85.4*			*ug/L*	*100*		*85*	*10-123*		
LCS (BL20107-BS1)					Prepared: 12/01/12 Analyzed: 12/03/12					
Acenaphthene	94.2	10	0.85	ug/L	100		94	47-145		
Acenaphthylene	102	10	0.97	ug/L	100		102	33-145		
Anthracene	99.9	10	0.29	ug/L	100		100	27-133		
Benzo(a)anthracene	98.7	10	0.71	ug/L	100		99	33-143		
Benzo(b)fluoranthene	97.9	10	0.70	ug/L	100		98	24-159		
Benzo(k)fluoranthene	96.6	10	1.3	ug/L	100		97	11-162		
Benzo(g,h,i)perylene	100	10	1.2	ug/L	100		100	1-219		
Benzo(a)pyrene	98.5	10	0.57	ug/L	100		98	17-163		
Bis(2-chloroethyl)ether	95.0	10	3.3	ug/L	100		95	12-158		
Bis(2-chloroisopropyl) ether	104	10	0.66	ug/L	100		104	36-166		
Bis(2-ethylhexyl)phthalate	99.6	10	1.1	ug/L	100		100	8-158		
4-Bromophenyl phenyl ether	99.6	10	0.86	ug/L	100		100	53-127		
Butyl benzyl phthalate	106	10	0.81	ug/L	100		106	1-139		
2-Chloronaphthalene	91.6	10	2.7	ug/L	100		92	60-118		
2-Chlorophenol	88.6	10	2.7	ug/L	100		89	23-134		
4-Chlorophenyl phenyl ether	93.5	10	1.2	ug/L	100		94	25-158		
Chrysene	98.3	10	1.2	ug/L	100		98	17-168		
Dibenzo(a,h)anthracene	98.6	10	1.1	ug/L	100		99	1-227		
2,4-Dichlorophenol	90.1	10	1.5	ug/L	100		90	39-135		
Diethyl phthalate	93.5	10	0.87	ug/L	100		94	1-114		
Dimethylphthalate	96.8	10	1.5	ug/L	100		97	1-112		
2,4-Dinitrophenol	89.2	20	1.0	ug/L	100		89	1-191		
2,4-Dinitrotoluene	92.8	10	0.85	ug/L	100		93	39-139		
Di-n-octylphthalate	98.2	10	0.64	ug/L	100		98	4-146		
Fluoranthene	101	10	1.2	ug/L	100		101	26-137		
Fluorene	95.8	10	0.84	ug/L	100		96	59-121		
Hexachlorobenzene	97.4	10	1.2	ug/L	100		97	1-152		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
LCS (BL20107-BS1)					Prepared: 12/01/12 Analyzed: 12/03/12					
Hexachlorobutadiene	73.4	10	1.8	ug/L	100		73	24-116		
Hexachlorocyclopentadiene	65.3	10	2.4	ug/L	100		65	10-120		
Hexachloroethane	59.7	10	0.58	ug/L	100		60	40-113		
Indeno(1,2,3-cd)pyrene	98.8	10	0.94	ug/L	100		99	1-171		
Isophorone	94.4	10	2.0	ug/L	100		94	21-196		
Naphthalene	85.9	10	0.84	ug/L	100		86	21-133		
Nitrobenzene	94.6	10	1.8	ug/L	100		95	35-180		
2-Nitrophenol	88.8	10	1.6	ug/L	100		89	29-182		
4-Nitrophenol	63.5	20	0.72	ug/L	100		64	1-132		
N-Nitrosodimethylamine	79.7	10	3.0	ug/L	100		80	10-150		
N-Nitrosodiphenylamine	80.9	10	3.2	ug/L	100		81	70-130		
N-Nitrosodi-n-propylamine	91.0	10	1.6	ug/L	100		91	1-230		
Pentachlorophenol	91.4	10	1.1	ug/L	100		91	14-176		
Phenanthrene	99.1	10	0.92	ug/L	100		99	54-120		
Phenol	47.5	10	1.4	ug/L	100		48	5-112		
Pyrene	101	10	1.2	ug/L	100		101	52-115		
1,2,4-Trichlorobenzene	71.0	10	1.4	ug/L	100		71	44-142		
Surrogate: 2-Fluorobiphenyl		*Result: 47.4*		*ug/L*	*50*		*95*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 72.8*		*ug/L*	*100*		*73*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 45.4*		*ug/L*	*50*		*91*	*35-114*		
Surrogate: Phenol-d5		*Result: 50.2*		*ug/L*	*100*		*50*	*10-110*		
Surrogate: Terphenyl-d14		*Result: 50.1*		*ug/L*	*50*		*100*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 95.7*		*ug/L*	*100*		*96*	*10-123*		
Matrix Spike (BL20107-MS1)		**Source: 1213710-02**			Prepared: 12/01/12 Analyzed: 12/03/12					
Acenaphthene	87.8	10	0.89	ug/L	100	ND	84	47-145		
Acenaphthylene	93.6	10	1.0	ug/L	100	ND	90	33-145		
Anthracene	94.5	10	0.30	ug/L	100	ND	91	75-133		
Benzo(a)anthracene	95.4	10	0.74	ug/L	100	ND	92	33-143		
Benzo(b)fluoranthene	94.3	10	0.73	ug/L	100	ND	90	24-159		
Benzo(k)fluoranthene	92.6	10	1.4	ug/L	100	ND	89	11-162		
Benzo(g,h,i)perylene	95.7	10	1.3	ug/L	100	ND	92	1-219		
Benzo(a)pyrene	94.0	10	0.59	ug/L	100	ND	90	17-163		
Bis(2-chloroethyl)ether	85.9	10	3.4	ug/L	100	ND	82	12-158		
Bis(2-chloroisopropyl) ether	93.5	10	0.69	ug/L	100	ND	90	36-166		
Bis(2-ethylhexyl)phthalate	96.6	10	1.2	ug/L	100	ND	93	8-158		
4-Bromophenyl phenyl ether	93.6	10	0.89	ug/L	100	ND	90	53-127		
Butyl benzyl phthalate	104	10	0.84	ug/L	100	ND	100	1-139		
2-Chloronaphthalene	84.0	10	2.9	ug/L	100	ND	81	75-125		
2-Chlorophenol	82.4	10	2.9	ug/L	100	ND	79	23-134		
4-Chlorophenyl phenyl ether	88.1	10	1.3	ug/L	100	ND	85	25-158		
Chrysene	93.5	10	1.3	ug/L	100	ND	90	17-168		
Dibenzo(a,h)anthracene	95.0	10	1.2	ug/L	100	ND	91	1-227		
2,4-Dichlorophenol	85.5	10	1.5	ug/L	100	ND	82	39-135		
Diethyl phthalate	90.0	10	0.90	ug/L	100	ND	86	1-114		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
Matrix Spike (BL20107-MS1)		**Source: 1213710-02**			Prepared: 12/01/12 Analyzed: 12/03/12					
Dimethylphthalate	92.3	10	1.6	ug/L	100	ND	89	1-112		
2,4-Dinitrophenol	90.9	21	1.1	ug/L	100	ND	87	1-191		
2,4-Dinitrotoluene	87.5	10	0.88	ug/L	100	ND	84	39-139		
Di-n-octylphthalate	97.2	10	0.67	ug/L	100	ND	93	4-146		
Fluoranthene	97.0	10	1.2	ug/L	100	ND	93	26-137		
Fluorene	91.1	10	0.87	ug/L	100	ND	87	59-121		
Hexachlorobenzene	90.7	10	1.3	ug/L	100	ND	87	1-152		
Hexachlorobutadiene	68.4	10	1.8	ug/L	100	ND	66	24-116		
Hexachlorocyclopentadiene	55.0	10	2.5	ug/L	100	ND	53	10-120		
Hexachloroethane	56.4	10	0.61	ug/L	100	ND	54	40-113		
Indeno(1,2,3-cd)pyrene	94.3	10	0.98	ug/L	100	ND	90	1-171		
Isophorone	89.0	10	2.1	ug/L	100	ND	85	21-196		
Naphthalene	78.4	10	0.88	ug/L	100	ND	75	21-133		
Nitrobenzene	86.6	10	1.9	ug/L	100	ND	83	35-180		
2-Nitrophenol	83.2	10	1.7	ug/L	100	ND	80	29-182		
4-Nitrophenol	56.5	21	0.75	ug/L	100	ND	54	1-132		
N-Nitrosodimethylamine	68.4	10	3.1	ug/L	100	ND	66	10-150		
N-Nitrosodiphenylamine	76.6	10	3.3	ug/L	100	ND	73	70-130		
N-Nitrosodi-n-propylamine	81.0	10	1.7	ug/L	100	ND	78	1-230		
Pentachlorophenol	90.4	10	1.1	ug/L	100	ND	87	14-176		
Phenanthrene	93.3	10	0.95	ug/L	100	ND	90	54-120		
Phenol	37.1	10	1.4	ug/L	100	ND	36	5-112		
Pyrene	98.4	10	1.3	ug/L	100	ND	94	52-115		
1,2,4-Trichlorobenzene	67.1	10	1.4	ug/L	100	ND	64	44-142		
Surrogate: 2-Fluorobiphenyl		*Result: 42.8*		*ug/L*	*52*		*82*	*43-116*		
Surrogate: 2-Fluorophenol		*Result: 58.6*		*ug/L*	*100*		*56*	*21-110*		
Surrogate: Nitrobenzene-d5		*Result: 41.1*		*ug/L*	*52*		*79*	*35-114*		
Surrogate: Phenol-d5		*Result: 38.1*		*ug/L*	*100*		*37*	*10-110*		
Surrogate: Terphenyl-d14		*Result: 47.3*		*ug/L*	*52*		*91*	*33-141*		
Surrogate: 2,4,6-Tribromophenol		*Result: 89.1*		*ug/L*	*100*		*85*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
Matrix Spike Dup (BL20107-MSD1)		**Source: 1213710-02**			Prepared: 12/01/12 Analyzed: 12/03/12					
Acenaphthene	95.6	10	0.88	ug/L	100	ND	92	47-145	9	28
Acenaphthylene	102	10	1.0	ug/L	100	ND	98	33-145	8	40
Anthracene	99.6	10	0.30	ug/L	100	ND	96	75-133	5	32
Benzo(a)anthracene	101	10	0.73	ug/L	100	ND	98	33-143	6	28
Benzo(b)fluoranthene	97.4	10	0.73	ug/L	100	ND	94	24-159	3	39
Benzo(k)fluoranthene	95.8	10	1.4	ug/L	100	ND	92	11-162	3	33
Benzo(g,h,i)perylene	99.6	10	1.3	ug/L	100	ND	96	1-219	4	59
Benzo(a)pyrene	97.8	10	0.59	ug/L	100	ND	94	17-163	4	39
Bis(2-chloroethyl)ether	93.5	10	3.4	ug/L	100	ND	90	12-158	8	55
Bis(2-chloroisopropyl) ether	102	10	0.69	ug/L	100	ND	99	36-166	9	46
Bis(2-ethylhexyl)phthalate	103	10	1.2	ug/L	100	ND	99	8-158	6	41
4-Bromophenyl phenyl ether	101	10	0.89	ug/L	100	ND	97	53-127	7	23
Butyl benzyl phthalate	109	10	0.84	ug/L	100	ND	105	1-139	4	23
2-Chloronaphthalene	92.3	10	2.8	ug/L	100	ND	89	75-125	9	20
2-Chlorophenol	86.9	10	2.8	ug/L	100	ND	84	23-134	5	29
4-Chlorophenyl phenyl ether	95.4	10	1.3	ug/L	100	ND	92	25-158	8	33
Chrysene	98.7	10	1.3	ug/L	100	ND	95	17-168	5	48
Dibenzo(a,h)anthracene	99.2	10	1.2	ug/L	100	ND	96	1-227	4	70
2,4-Dichlorophenol	94.2	10	1.5	ug/L	100	ND	91	39-135	10	26
Diethyl phthalate	96.3	10	0.90	ug/L	100	ND	93	1-114	7	27
Dimethylphthalate	97.6	10	1.6	ug/L	100	ND	94	1-112	6	23
2,4-Dinitrophenol	98.7	21	1.0	ug/L	100	ND	95	1-191	8	50
2,4-Dinitrotoluene	93.2	10	0.88	ug/L	100	ND	90	39-139	6	20
Di-n-octylphthalate	99.6	10	0.66	ug/L	100	ND	96	4-146	2	31
Fluoranthene	102	10	1.2	ug/L	100	ND	98	26-137	5	33
Fluorene	97.6	10	0.87	ug/L	100	ND	94	59-121	7	21
Hexachlorobenzene	98.2	10	1.3	ug/L	100	ND	95	1-152	8	25
Hexachlorobutadiene	70.7	10	1.8	ug/L	100	ND	68	24-116	3	26
Hexachlorocyclopentadiene	57.2	10	2.5	ug/L	100	ND	55	10-120	4	41
Hexachloroethane	59.0	10	0.60	ug/L	100	ND	57	40-113	5	25
Indeno(1,2,3-cd)pyrene	98.4	10	0.97	ug/L	100	ND	95	1-171	4	45
Isophorone	95.8	10	2.1	ug/L	100	ND	92	21-196	7	63
Naphthalene	84.9	10	0.88	ug/L	100	ND	82	21-133	8	30
Nitrobenzene	94.5	10	1.9	ug/L	100	ND	91	35-180	9	39
2-Nitrophenol	92.8	10	1.7	ug/L	100	ND	90	29-182	11	35
4-Nitrophenol	60.7	21	0.75	ug/L	100	ND	59	1-132	7	20
N-Nitrosodimethylamine	70.1	10	3.1	ug/L	100	ND	68	10-150	2	30
N-Nitrosodiphenylamine	81.5	10	3.3	ug/L	100	ND	79	70-130	6	30
N-Nitrosodi-n-propylamine	89.9	10	1.7	ug/L	100	ND	87	1-230	10	55
Pentachlorophenol	96.3	10	1.1	ug/L	100	ND	93	14-176	6	49
Phenanthrene	99.2	10	0.95	ug/L	100	ND	96	54-120	6	21
Phenol	37.9	10	1.4	ug/L	100	ND	37	5-112	2	23
Pyrene	103	10	1.3	ug/L	100	ND	99	52-115	4	25
1,2,4-Trichlorobenzene	69.8	10	1.4	ug/L	100	ND	67	44-142	4	28
Surrogate: 2-Fluorobiphenyl		*Result: 46.8*		*ug/L*	*52*		*90*	*43-116*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Semivolatile Analyses - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20107 - BNA Extraction for EPA 625 AND 8270										
Matrix Spike Dup (BL20107-MSD1)	**Source: 1213710-02**				Prepared: 12/01/12 Analyzed: 12/03/12					
Surrogate: 2-Fluorophenol	*Result: 58.7*			*ug/L*	*100*		*57*	*21-110*		
Surrogate: Nitrobenzene-d5	*Result: 44.8*			*ug/L*	*52*		*86*	*35-114*		
Surrogate: Phenol-d5	*Result: 37.7*			*ug/L*	*100*		*36*	*10-110*		
Surrogate: Terphenyl-d14	*Result: 49.8*			*ug/L*	*52*		*96*	*33-141*		
Surrogate: 2,4,6-Tribromophenol	*Result: 96.7*			*ug/L*	*100*		*93*	*10-123*		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23035 - TS prep										
Blank (BK23035-BLK1)					Prepared: 11/30/12 Analyzed: 12/03/12					
Total Solids	0.01 U	0.01	0.01	% by wt						
Duplicate (BK23035-DUP1)		Source: 1213710-03			Prepared: 11/30/12 Analyzed: 12/03/12					
Total Solids	0.849	0.01	0.01	% by wt		0.860			1	10
Batch BL20335 - Distillation for Cyanide by SM 4500CN-E										
Blank (BL20335-BLK1)					Prepared & Analyzed: 12/03/12					
Cyanide	0.0024 U	0.020	0.0024	mg/L						
LCS (BL20335-BS1)					Prepared & Analyzed: 12/03/12					
Cyanide	0.0450	0.020	0.0024	mg/L	0.050		90	90-110		
Matrix Spike (BL20335-MS1)		Source: 1213745-01			Prepared & Analyzed: 12/03/12					
Cyanide	0.0420	0.020	0.0024	mg/L	0.050	ND	84	58-134		
Matrix Spike Dup (BL20335-MSD1)		Source: 1213745-01			Prepared & Analyzed: 12/03/12					
Cyanide	0.0440	0.020	0.0024	mg/L	0.050	ND	88	58-134	5	30
Batch BL20501 - Distillation for Phenols by EPA 420.1										
Blank (BL20501-BLK1)					Prepared & Analyzed: 12/04/12					
Phenolics	0.0050 U	0.080	0.0050	mg/L						
LCS (BL20501-BS1)					Prepared & Analyzed: 12/04/12					
Phenolics	0.530	0.080	0.0050	mg/L	0.50		106	85-115		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20501 - Distillation for Phenols by EPA 420.1										
Matrix Spike (BL20501-MS1)		**Source: 1213710-02**			Prepared & Analyzed: 12/04/12					
Phenolics	0.517	0.080	0.0050	mg/L	0.50	ND	103	80-120		
Matrix Spike Dup (BL20501-MSD1)		**Source: 1213710-02**			Prepared & Analyzed: 12/04/12					
Phenolics	0.535	0.080	0.0050	mg/L	0.50	ND	107	80-120	3	31
Batch BL20521 - Distillation for Phenols by EPA 420.1										
Blank (BL20521-BLK1)					Prepared: 12/05/12 Analyzed: 12/06/12					
Phenolics	15 U	100	15	mg/kg wet						
LCS (BL20521-BS1)					Prepared: 12/05/12 Analyzed: 12/06/12					
Phenolics	22.3 I	100	15	mg/kg wet	25		90	50-150		
Matrix Spike (BL20521-MS1)		**Source: 1213710-03**			Prepared: 12/05/12 Analyzed: 12/06/12					
Phenolics	2,510 I	12000	1700	mg/kg dry	2900	ND	86	50-150		
Matrix Spike Dup (BL20521-MSD1)		**Source: 1213710-03**			Prepared: 12/05/12 Analyzed: 12/06/12					
Phenolics	2,450 I	12000	1700	mg/kg dry	2900	ND	84	50-150	3	30
Batch BL20523 - Distillation for Cyanide by SM 4500CN-E										
Blank (BL20523-BLK1)					Prepared & Analyzed: 12/05/12					
Cyanide	0.0050 U	0.020	0.0050	mg/kg wet						
LCS (BL20523-BS1)					Prepared & Analyzed: 12/05/12					
Cyanide	2.39	0.020	0.0050	mg/kg wet	2.5		96	80-120		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Inorganics - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20523 - Distillation for Cyanide by SM 4500CN-E										
Matrix Spike (BL20523-MS1)		**Source: 1213710-03**			Prepared & Analyzed: 12/05/12					
Cyanide	265	0.020	0.0050	mg/kg dry	290	ND	92	80-120		
Matrix Spike Dup (BL20523-MSD1)		**Source: 1213710-03**			Prepared & Analyzed: 12/05/12					
Cyanide	265	0.020	0.0050	mg/kg dry	290	ND	92	80-120	0.07	20

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22830 - Metals Preparation for EPA Method 200.7										
Blank (BK22830-BLK1)					Prepared: 11/29/12 Analyzed: 12/04/12					
Beryllium	0.000096 U	0.0010	0.000096	mg/L						
Silver	0.0011 U	0.020	0.0011	mg/L						
LCS (BK22830-BS1)					Prepared: 11/29/12 Analyzed: 12/04/12					
Beryllium	0.039	0.0010	0.000096	mg/L	0.040		97	85-115		
Silver	0.072	0.020	0.0011	mg/L	0.080		90	85-115		
Matrix Spike (BK22830-MS1)		**Source: 1213695-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Beryllium	0.038	0.0010	0.000096	mg/L	0.040	0.00014	95	70-130		
Silver	0.075	0.020	0.0011	mg/L	0.080	ND	94	70-130		
Matrix Spike (BK22830-MS2)		**Source: 1213710-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Silver	0.077	0.020	0.0011	mg/L	0.080	ND	96	70-130		
Beryllium	0.039	0.0010	0.000096	mg/L	0.040	0.00013	96	70-130		
Matrix Spike Dup (BK22830-MSD1)		**Source: 1213695-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Silver	0.073	0.020	0.0011	mg/L	0.080	ND	92	70-130	3	30
Beryllium	0.039	0.0010	0.000096	mg/L	0.040	0.00014	96	70-130	0.8	30
Matrix Spike Dup (BK22830-MSD2)		**Source: 1213710-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Beryllium	0.039	0.0010	0.000096	mg/L	0.040	0.00013	98	70-130	2	30
Silver	0.075	0.020	0.0011	mg/L	0.080	ND	93	70-130	3	30
Batch BK22831 - EPA 3020A										
Blank (BK22831-BLK1)					Prepared: 11/29/12 Analyzed: 12/03/12					
Cadmium	0.00027 U	0.00050	0.00027	mg/L						
Lead	0.00025 U	0.00050	0.00025	mg/L						
Thallium	0.00024 U	0.00050	0.00024	mg/L						
Nickel	0.00046 U	0.0050	0.00046	mg/L						
Copper	0.00013 U	0.00050	0.00013	mg/L						
Chromium	0.00035 U	0.0050	0.00035	mg/L						
Zinc	0.00088 U	0.0050	0.00088	mg/L						
Arsenic	0.00093 U	0.0050	0.00093	mg/L						

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22831 - EPA 3020A										
LCS (BK22831-BS1)					Prepared: 11/29/12 Analyzed: 12/03/12					
Lead	0.049	0.00050	0.00025	mg/L	0.050		98	80-120		
Chromium	0.054	0.0050	0.00035	mg/L	0.050		108	80-120		
Cadmium	0.053	0.00050	0.00027	mg/L	0.050		105	80-120		
Copper	0.048	0.00050	0.00013	mg/L	0.050		97	80-120		
Thallium	0.049	0.00050	0.00024	mg/L	0.050		98	80-120		
Arsenic	0.049	0.0050	0.00093	mg/L	0.050		99	80-120		
Nickel	0.052	0.0050	0.00046	mg/L	0.050		103	80-120		
Zinc	0.053	0.0050	0.00088	mg/L	0.050		106	80-120		
Matrix Spike (BK22831-MS1)		**Source: 1213695-01**			Prepared: 11/29/12 Analyzed: 12/03/12					
Lead	0.050	0.00050	0.00025	mg/L	0.050	ND	101	70-130		
Thallium	0.051	0.00050	0.00024	mg/L	0.050	ND	102	70-130		
Copper	0.47	0.0050	0.0013	mg/L	0.050	ND	943	70-130		
Chromium	0.036	0.0050	0.00035	mg/L	0.050	0.0010	70	70-130		
Zinc	0.52	0.050	0.0088	mg/L	0.050	0.0036	NR	70-130		
Nickel	0.51	0.050	0.0046	mg/L	0.050	0.0015	NR	70-130		
Cadmium	0.051	0.00050	0.00027	mg/L	0.050	ND	102	70-130		
Arsenic	0.51	0.050	0.0093	mg/L	0.050	ND	NR	70-130		
Matrix Spike (BK22831-MS2)		**Source: 1213710-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Zinc	0.62	0.050	0.0088	mg/L	0.050	0.097	NR	70-130		
Thallium	0.53	0.0050	0.0024	mg/L	0.050	ND	NR	70-130		
Cadmium	0.053	0.00050	0.00027	mg/L	0.050	ND	107	70-130		
Copper	0.50	0.0050	0.0013	mg/L	0.050	0.016	971	70-130		
Chromium	0.053	0.0050	0.00035	mg/L	0.050	0.0024	101	70-130		
Lead	0.50	0.0050	0.0025	mg/L	0.050	0.00055	1000	70-130		
Nickel	0.054	0.0050	0.00046	mg/L	0.050	0.0066	95	70-130		
Arsenic	0.048	0.0050	0.00093	mg/L	0.050	ND	96	70-130		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22831 - EPA 3020A										
Matrix Spike Dup (BK22831-MSD1)		**Source: 1213695-01**			Prepared: 11/29/12 Analyzed: 12/04/12					
Nickel	0.50	0.050	0.0046	mg/L	0.050	0.0015	995	70-130	3	20
Lead	0.052	0.00050	0.00025	mg/L	0.050	ND	104	70-130	3	20
Chromium	0.036	0.0050	0.00035	mg/L	0.050	0.0010	70	70-130	0.1	20
Arsenic	0.48	0.050	0.0093	mg/L	0.050	ND	969	70-130	5	20
Cadmium	0.052	0.00050	0.00027	mg/L	0.050	ND	105	70-130	2	20
Zinc	0.50	0.050	0.0088	mg/L	0.050	0.0036	987	70-130	4	20
Thallium	0.053	0.00050	0.00024	mg/L	0.050	ND	105	70-130	3	20
Copper	0.45	0.0050	0.0013	mg/L	0.050	ND	905	70-130	4	20
Matrix Spike Dup (BK22831-MSD2)		**Source: 1213710-01**			Prepared: 11/29/12 Analyzed: 12/03/12					
Chromium	0.050	0.0050	0.00035	mg/L	0.050	0.0024	94	70-130	6	20
Arsenic	0.044	0.0050	0.00093	mg/L	0.050	ND	87	70-130	9	20
Cadmium	0.053	0.00050	0.00027	mg/L	0.050	ND	106	70-130	0.9	20
Nickel	0.051	0.0050	0.00046	mg/L	0.050	0.0066	88	70-130	6	20
Lead	0.52	0.0050	0.0025	mg/L	0.050	0.00055	NR	70-130	4	20
Zinc	0.65	0.050	0.0088	mg/L	0.050	0.097	NR	70-130	4	20
Thallium	0.54	0.0050	0.0024	mg/L	0.050	ND	NR	70-130	2	20
Copper	0.52	0.0050	0.0013	mg/L	0.050	0.016	997	70-130	3	20
Batch BK22916 - Mercury Digestion of Soils, Sediments & Sludges										
Blank (BK22916-BLK1)					Prepared & Analyzed: 11/29/12					
Mercury	0.02 U	0.40	0.02	mg/kg wet						
LCS (BK22916-BS1)					Prepared & Analyzed: 11/29/12					
Mercury	0.54	0.40	0.02	mg/kg wet	0.50		108	80-120		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK22916 - Mercury Digestion of Soils, Sediments & Sludges										
Matrix Spike (BK22916-MS1)		Source: 1213710-03			Prepared & Analyzed: 11/29/12					
Mercury	7.5	4.6	0.23	mg/kg dry	5.8	1.2	107	70-130		
Matrix Spike Dup (BK22916-MSD1)		Source: 1213710-03			Prepared & Analyzed: 11/29/12					
Mercury	7.5	4.7	0.23	mg/kg dry	5.8	1.2	108	70-130	0.3	20
Batch BK23011 - EPA 3050B										
Blank (BK23011-BLK1)					Prepared: 11/30/12 Analyzed: 12/04/12					
Antimony	1.0 U	4.0	1.0	mg/kg wet						
Silver	0.10 U	0.40	0.10	mg/kg wet						
Selenium	5.0 U	20	5.0	mg/kg wet						
Beryllium	0.010 U	0.040	0.010	mg/kg wet						
Zinc	0.30 U	1.2	0.30	mg/kg wet						
Cadmium	0.10 U	0.40	0.10	mg/kg wet						
Chromium	0.40 U	1.6	0.40	mg/kg wet						
Nickel	0.10 U	0.40	0.10	mg/kg wet						
Arsenic	1.0 U	4.0	1.0	mg/kg wet						
Copper	0.30 U	1.2	0.30	mg/kg wet						
Lead	1.0 U	4.0	1.0	mg/kg wet						
Thallium	0.50 U	2.0	0.50	mg/kg wet						
LCS (BK23011-BS1)					Prepared: 11/30/12 Analyzed: 12/04/12					
Lead	39	4.0	1.0	mg/kg wet	40		98	85-115		
Copper	37	1.2	0.30	mg/kg wet	40		93	85-115		
Thallium	36	2.0	0.50	mg/kg wet	40		91	85-115		
Selenium	38	20	5.0	mg/kg wet	40		95	85-115		
Nickel	39	0.40	0.10	mg/kg wet	40		98	85-115		
Chromium	39	1.6	0.40	mg/kg wet	40		97	85-115		
Beryllium	3.8	0.040	0.010	mg/kg wet	4.0		96	85-115		
Silver	7.5	0.40	0.10	mg/kg wet	8.0		94	85-115		
Antimony	38	4.0	1.0	mg/kg wet	40		94	85-115		
Cadmium	37	0.40	0.10	mg/kg wet	40		92	85-115		
Zinc	39	1.2	0.30	mg/kg wet	40		98	85-115		
Arsenic	39	4.0	1.0	mg/kg wet	40		96	85-115		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23011 - EPA 3050B										
Matrix Spike (BK23011-MS1)		**Source: 1213685-01**			Prepared: 11/30/12 Analyzed: 12/05/12					
Selenium	240	160	39	mg/kg dry	310	42	64	75-125		
Arsenic	360	31	7.8	mg/kg dry	310	10	111	75-125		
Cadmium	300	3.1	0.78	mg/kg dry	310	1.2	95	75-125		
Beryllium	31	0.31	0.078	mg/kg dry	31	0.33	98	75-125		
Copper	620	9.4	2.4	mg/kg dry	310	240	121	75-125		
Lead	340	31	7.8	mg/kg dry	310	18	104	75-125		
Silver	64	3.1	0.78	mg/kg dry	63	4.0	96	75-125		
Thallium	230	16	3.9	mg/kg dry	310	ND	73	25-175		
Zinc	860	9.4	2.4	mg/kg dry	310	410	142	75-125		
Nickel	330	3.1	0.78	mg/kg dry	310	6.3	102	75-125		
Chromium	320	13	3.1	mg/kg dry	310	8.7	99	75-125		
Antimony	310	31	7.8	mg/kg dry	310	ND	98	75-125		
Matrix Spike Dup (BK23011-MSD1)		**Source: 1213685-01**			Prepared: 11/30/12 Analyzed: 12/04/12					
Thallium	210	16	3.9	mg/kg dry	310	ND	68	25-175	7	50
Antimony	230	31	7.8	mg/kg dry	310	ND	75	75-125	27	50
Arsenic	290	31	7.8	mg/kg dry	310	10	89	75-125	21	50
Cadmium	280	3.1	0.78	mg/kg dry	310	1.2	90	75-125	5	50
Beryllium	30	0.31	0.078	mg/kg dry	31	0.33	95	75-125	3	50
Copper	580	9.4	2.4	mg/kg dry	310	240	109	75-125	6	50
Silver	60	3.1	0.78	mg/kg dry	63	4.0	89	75-125	7	50
Selenium	320	160	39	mg/kg dry	310	42	89	75-125	28	50
Chromium	310	13	3.1	mg/kg dry	310	8.7	97	75-125	2	50
Zinc	800	9.4	2.4	mg/kg dry	310	410	123	75-125	7	50
Nickel	310	3.1	0.78	mg/kg dry	310	6.3	96	75-125	5	50
Lead	310	31	7.8	mg/kg dry	310	18	94	75-125	9	50

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BK23013 - Digestion Procedure for Hg Analysis by EPA 245.1										
Blank (BK23013-BLK1)					Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.00010 U	0.00050	0.00010	mg/L						
LCS (BK23013-BS1)					Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.0051	0.00050	0.00010	mg/L	0.0050		103	85-115		
Matrix Spike (BK23013-MS1)		**Source: 1213698-01**			Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.0051	0.00050	0.00010	mg/L	0.0050	ND	103	70-130		
Matrix Spike (BK23013-MS2)		**Source: 1213710-02**			Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.0050	0.00050	0.00010	mg/L	0.0050	ND	99	70-130		
Matrix Spike Dup (BK23013-MSD1)		**Source: 1213698-01**			Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.0051	0.00050	0.00010	mg/L	0.0050	ND	102	70-130	0.7	30
Matrix Spike Dup (BK23013-MSD2)		**Source: 1213710-02**			Prepared: 11/30/12 Analyzed: 12/03/12					
Mercury	0.0050	0.00050	0.00010	mg/L	0.0050	ND	101	70-130	1	30
Batch BL20436 - EPA 3020A										
Blank (BL20436-BLK1)					Prepared & Analyzed: 12/04/12					
Antimony	0.000071 U	0.00050	0.000071	mg/L						
Selenium	0.00093 U	0.0050	0.00093	mg/L						
LCS (BL20436-BS1)					Prepared & Analyzed: 12/04/12					
Selenium	0.0052	0.0050	0.00093	mg/L	0.0050		104	80-120		
Antimony	0.0048	0.00050	0.000071	mg/L	0.0050		95	80-120		

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

Metals - Quality Control

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BL20436 - EPA 3020A										
Matrix Spike (BL20436-MS1)		**Source: 1213710-02**			Prepared & Analyzed: 12/04/12					
Antimony	0.039	0.0050	0.00071	mg/L	0.050	0.00084	77	70-130		
Selenium	0.054	0.050	0.0093	mg/L	0.050	ND	108	70-130		
Matrix Spike (BL20436-MS2)		**Source: 1213745-01**			Prepared & Analyzed: 12/04/12					
Antimony	0.059	0.0050	0.00071	mg/L	0.050	0.0012	115	70-130		
Selenium	0.052	0.050	0.0093	mg/L	0.050	ND	103	70-130		
Matrix Spike Dup (BL20436-MSD1)		**Source: 1213710-02**			Prepared & Analyzed: 12/04/12					
Selenium	0.052	0.050	0.0093	mg/L	0.050	ND	105	70-130	3	20
Antimony	0.038	0.0050	0.00071	mg/L	0.050	0.00084	75	70-130	2	20
Matrix Spike Dup (BL20436-MSD2)		**Source: 1213745-01**			Prepared & Analyzed: 12/04/12					
Selenium	0.054	0.050	0.0093	mg/L	0.050	ND	108	70-130	4	20
Antimony	0.055	0.0050	0.00071	mg/L	0.050	0.0012	107	70-130	7	20

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654

January 9, 2013
Work Order: 1213710

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limts and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

J5 Matrix spike of this sample was outside typical range. All other QC criteria were acceptable.
J4 Quality control sample(s) associated with this sample did not meet established criteria.
J2 Quality control value for accuracy was outside control limits.

Questions regarding this report should be directed to :

Christy Whitehurst
Telephone (813) 855-1844 FAX (813) 855-2218
Christy@southernanalyticallabs.com

or to Client Services (clientservices@southernanalyticallabs.com).

Pasco County Environmental Laboratory
8864 Government Drive
New Port Richey, FL 34654
(727) 847-8902 Fax: (727) 847-8112

CHAIN OF CUSTODY RECORD

FOR LAB USE ONLY
Temp. of Contents: 6.8 ° C (or Received on Ice (ROI)) Condition of Contents: ____

FOR LAB USE ONLY LOG IN NO. 1213710

1. Client: (Company or Individual): WESLEY CENTER
Address: | Phone: ( )
City: | State | Zip Code | Fax: ( )

2. Report to: (if different from above): CANDIA MULHERN
Address: | Phone: ( )
City | State | Zip Code | Fax: ( )

3. Client Project Name: SPECIAL 40 CFR
4. Sampled by: (Print) E. WILLOUGHBY
5. Sampled by: (Signature) E Willoughby
6. Shipping Method:

Water Sample Codes (for Item 11)	Container Codes (for Item 14)
DW - Drinking Water	V - VOA vial
GW - Ground Water	G - Glass
SW - Surface Water	P - Plastic
PW - Processed Water	M - Micro Bag/Cup
WW - Waste Water	O - Other

Preservative Codes (for Item 13)
C - Cool Only
H - Hydrochloric Acid
M - Monochloroacetic Acid
N - Nitric Acid
OH - Sodium Hydroxide
S - Sulfuric Acid
T - Sodium Thiosulfate

Item	7. Sample ID or No.	8. Sample Description	9. Sample Date	9. Sample Time	10. Comp.	10. Grab	11. Water (Codes)	Leachate	Soil	Sludge	Other	12. No. of Containers	15. Analyses Requested: 40 CFR part 136 Appendix D Tables II & III	16. REMARK	For Lab Use Only LAB SAMPLE NO.
1.		INFLUENT	11.28.12	0700	✓		WW					7	✓		
2.		EFFLUENT	11.28.12	0700	✓		WW					7	✓		
3.		SLUDGE/CAKE	11.28.12	0700		✓	WW					4	✓		
4.		Field BLNK	11.28.12	0700		✓	DI					6	✓		
5.														Sent to	
6.														S.A.L.	
7.														11/28/12	
8.															
9.															
10.															

17. RELINQUISHED BY	DATE	TIME	18. RECEIVED BY	DATE	TIME
1. E Willoughby	11.28.12	09:00	CF	11/28/12	09:00
2. CFranz	11/28/12	1345	S Hartley	11.28.12	1345
3. S Hartley	11.28.12	1440			
4.					

PC 5/10/04a

APPENDIX B

Lee County Resource Recovery Facility Biosolids Report

COVANTA
ENERGY
for a cleaner world

Covanta Lee, Inc.
A Covanta Energy Corporation
10500 Buckingham Road
Fort Myers, FL 33905
Tel: 239.337.2200
Fax: 239.337.2510

May 31, 2012

Mr. Ajaya Satyal
Air Program Administrator
Florida Department of Environmental Protection
South Florida District
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901

RE: **Lee County Solid Waste Resource Recovery Facility**
2012 Stack Test Report with Biosolid Introduction

Mr. Satyal,

Covanta Lee, Inc., on behalf of Lee County Solid Waste Division, is hereby submitting the Environmental Test report (including Testar, Inc.'s report) for the stack test with biosolids performed at the Lee County Solid Waste Resource Recovery Facility. Stack testing was conducted March 28, 2012, in accordance with PSD-FL-151F Specific Conditions 8, 9, & 10.

If you have any questions regarding the enclosed reports, please feel free to contact me. I can be reached during the day at (239) 337-2200, Extension 228.

Sincerely,

Michael Duff
Facility Manager

cc:
J. Kahn, FDEP-Tallahassee	(w/1 CD)
D. Castro (HDR)	(w/1 CD)
L. Sampson, LC-SWMD	(w/ 1 CD)
File	(w/ 1 CD)

Recycled Paper

ENVIRONMENTAL TEST REPORT

VOLUME I

SPECIAL REPORT – COV REPORT NO.3698

MAY 31, 2012

PREPARED FOR:	Covanta Lee, Inc. 10500 Buckingham Road Suite 400 Ft. Myers, FL 33905
REGULATORY AGENCY:	Florida Department of Environmental Protection Title V Permit No. 0710119-007-AV Air Construction Permit No. 0710119-009-AC/PSD-FL-151F
TEST DATES:	March 28, 2012
ASSOCIATED REPORT:	COV Report No. 3698
PREPARED BY:	Covanta Lee, Inc.

TABLE OF CONTENTS

1.0 INTRODUCTION

The Lee County Solid Waste Energy Recovery Facility (LCRRF) processes a nominal 1,800 tons of municipal solid waste each day, designed to generate approximately 60 megawatts of electricity. The facility is operated by Covanta Lee, Inc, and consists of three (3) substantially similar Martin GmbH waterwall furnaces. Waste is combusted at furnace temperatures exceeding 1,800 degrees Fahrenheit and reduced to an inert ash residue. Before leaving the facility, combustion air is directed through technologically advanced air pollution control equipment consisting of spray dryer absorbers (SDA), aqueous ammonia injection, carbon injection, and fabric filter baghouses.

Testar, Inc., on behalf of Covanta Lee, Inc., performed a special compliance test to determine the effects of combusting biosolids. The objective of the test program was to demonstrate compliance with the emission limit provisions of the Florida Department of Environmental Protection (FLDEP), Bureau of Air Quality Management Title V Air Operation Permit No. 0710119-007-AV and compare the results to the previous stack test performed in January 2012.

The procedures conducted during the test program are listed in Section 2.0, Schedule of Activities (Table 2.2).

This test report presents the data collected during the test program, which demonstrates compliance with permit emission limits. A summary of emission test results for Unit 1 is presented in Section 3.0, Table 3.1. A summary of visible emissions is presented in Section 3.0, Table 3.2. And a comparison of stack test results between the January 2012 stack test and the March 2012 stack test with biosolids is presented in Section 3.0, Table 3.3. All values from the March 2012 stack test with biosolids were less than or similar to those collected during the 2012 Annual Compliance Test conducted in January 2012. *The effects of biosolids are therefore considered negligible on the emission indices tested.*

The testing Contractor Report (Volume 2) includes all data gathered at the site and all laboratory analytical data. A review of both the Environmental Test Report and Contractor Report is recommended for a complete understanding of the test program.

1.1 BIOSOLIDS COMBUSTION PROCEDURE

All combusted biosolids were from the City of Cape Coral and were designated as "Class B" sludge. At 160 Klbs of steam load, Units 1 averages approximately 23 tons per hour of MSW throughput given the typical HHV in February 2012. To combust 5% of biosolids with the same approximate mass throughput required 1.1 tons of biosolids with 21.9 tons of MSW per hour (1.1 ÷ 21.9 = 5%).

MSW and biosolids material were established for two 13-hour periods for combustion unit 1. One period in the day and one during the evening. The mixing and feeding procedure for the day period started at about 5:30 AM and the test period began at 6:00 AM and continued until 6:00 PM. The mixing and feeding procedure for the evening test began at about 6:30 PM and the test period was continuous from 7:00 PM to 7:00 AM. The day test coincided with specific stack testing that was conducted for PM, Pb, Hg, and Cd. CEM and COM data were monitored and recorded for opacity, SO2, NOx and CO during both test periods. Carbon and ammonia feed rates were also monitored and recorded during the test periods.

Operator Procedure for the Two Test Periods

The following was taken directly from the operator's procedure for the introduction of biosolids.

"Place a uniform bed of yard waste at least 2-3 feet thick in the trench area of one designated bay. The yard waste will be the indicator for the lower level of the initial MSW/biosolids mixture. Place approximately 20 tons of MSW on top of the yard waste, then approximately 14.3 tons of biosolids on top of the MSW. Finally, place another 20 tons of MSW on top of the biosolids. This provides all of the biosolids required for 13 hours of combustion and a portion of the MSW

required. Mix the MSW and biosolids in the trench with the grapple. If yard waste is brought to the surface during mixing, then the grapple is digging too deep.

Establish the designated test furnace at a control set-point of 160 Klbs of steam. The objective is to combust approximately 299 tons of combined MSW and biosolids during a 13 hour continuous period beginning at 5:30 AM. The actual test period will begin at 6:00 AM and continue for 12 hours.

Each hour, approximately 4.2 tons of MSW/biosolids mixture from the trench (2 grapples at about 2 tons each) should be distributed over a designated area on the back-stack pile. The crane scale can be used for this purpose. This MSW/biosolids mix should then be mixed with MSW from the back-stack pile to feed approximately 23 tons per hour to the test furnace.

Continue this furnace charging procedure during the 13 hour period and all of the MSW/biosolids mixture from the trench should be removed down to the layer of yard waste."

TABLE 2.1
TEST PROGRAM

Parameter	Method
Particulate Matter (PM) [1]	EPA Method 5
Opacity	EPA Method 9
Multi-metals (MMTL) [2]	EPA Method 29
Mercury (Hg)	EPA Method 29

Notes:

1.) One compliance test run was conducted under normal soot blowing conditions. A 1-hour visible emission run was conducted simultaneously with one particulate test run on the unit.

2.) Multi-Metals consist of mercury, lead and cadmium.

TABLE 2.2
SCHEDULE OF ACTIVITIES – Unit 1

Test Location	Sampling Method	Flue Gas Parameter	Run Date	Run Time	Run Number
Unit 1 SDA Inlet	EPA M29	Mercury	03/28/12	0835-1057	1-I-M29-1
			03/28/12	1115-1339	1-I-M29-2
			03/28/12	1355-1614	1-I-M29-3
Unit 1 Stack	EPA 5/29	Particulate and Metals	03/28/12	0835-1057	1-S-M5/29-1
			03/28/12	1115-1340	1-S-M5/29-2
			03/28/12	1355-1614	1-S-M5/29-3

TABLE 2.3

TEST PARTICIPANTS

Covanta Lee, Inc.
Tyler Huffman
Mike Duff

TESTAR, Inc.

Herb Dixon, PE
Project Director

Jeff Aims
Test Engineer

Charles Nahrebecki
CEM Test Engineer

Sean Daley
Test Engineer

Blake Cone
Test Engineer

Will Snipes
Test Engineer

Table 3.1

SUMMARY OF SOURCE TEST RESULTS - UNIT 1

Parameter	Rep. 1	Rep. 2	Rep. 3	Average	Permit Limit
Unit 1 SDA Inlet Concentrations					
Mercury, mg/DSCM @ 7% O2	0.0228	0.0353	0.0646	0.0409	NA
Unit 1 SDA Inlet Emission Rates, lb/hr					
Mercury	0.00580	0.00860	0.0164	0.0103	NA
Unit 1 Stack Concentrations					
Mercury, mg/DSCM @ 7% O_2	0.0000850	0.000376	0.000314	0.000258	0.050
Metals					
Cadmium, mg/DSCM @ 7% O_2	<0.000124	<0.000120	0.000146	<0.000130	0.035[a]
Lead, mg/DSCM @ 7% O_2	0.00106	0.000740	0.00217	0.00133	0.400[a]
Particulate, Gr/DSCF @ 7% O_2	0.0000271	0.0000524	<0.0000531	<0.0000442	0.010
Unit 1 Stack Emission Rates, lb/hr					
Mercury	0.0000199	0.0000908	0.0000757	0.0000621	0.0271
Particulate	0.0145	0.0290	<0.0293	<0.0242	5.34
Unit 1 Stack Emission Rates, lb/MMBtu					
Mercury	7.64E-08	3.37E-07	2.82E-07	2.32E-07	0.000138
Metals					
Cadmium	<1.12E-07	<1.08E-07	1.31E-07	<1.17E-07	NA
Lead	9.57E-07	6.65E-07	1.95E-06	1.19E-06	0.0006
Unit 1 Stack Emission Rates, lb/hr —— For Informational Purposes Only					
Metals					
Cadmium	<2.90E-05	<2.90E-05	3.51E-05	<3.10E-05	9.4E-03
Lead	2.49E-04	1.79E-04	5.23E-04	3.17E-04	0.165
Unit 1 Removal Efficiency %					
Mercury RE%, mg/DSCM @ 7% O2	99.6	98.9	99.5	99.4	≥85%
Mercury RE%, lb/hr	99.7	98.9	99.5	99.4	≥85%

Notes:

(1) Data presented as run number. Actual sample replicate number may differ.

(2) Removal efficiencies are alternative compliance limits that can be satisfied to demonstrate compliance with a pollutant's emission standard.

TABLE 3.2

SUMMARY OF SOURCE TEST RESULTS – VISIBLE AND FUGITIVE EMISSIONS

Pollutant	RUN 1	RUN 2	RUN 3	Average	Permitted Maximum Emission Limit
MWC Unit 1					
Opacity, %	0	0	0	0	10

TABLE 3.3

DATA COMPARISON – JANUARY STACK TEST VS MARCH STACK TEST W/ BIOSOLIDS

Parameter	January 2012 Stack[(1)] Concentrations	March 2012 Stack Test w/ Biosolids
Hg	0.000722 mg/dscm	0.000258 mg/dscm
Cd	<0.000117 mg/dscm	<0.000130 mg/dscm
Pb	0.00133 mg/dscm	0.00133 mg/dscm
Opacity[(2)]	0%	0%
CO[(2)]	12 ppm @ 7% O2	11 ppm @ 7% O2
SO2[(2)]	8 ppm @ 7% O2	11 ppm @ 7% O2
NOx[(2)]	145 ppm @ 7% O2	151 ppm @ 7% O2

(1) Data from the facility's 2012 Annual Compliance Test.

(2) Data taken from the 24-hr averages by the CEMS during the Annual Compliance Stack Test for Unit #1.

Discussion

All values for the March 2012 stack test with biosolids were less than or similar to the January 2012 results. Therefore, the effect of biosolid combustion is considered to be negligible on emission indices.

4.0 OPERATIONAL DATA DURING EMISSION TESTING

During the air pollutant emissions testing, plant process data was monitored and collected by COV personnel to ensure representative operation of the facility. The following operating parameters are included as an appendix to this Executive Summary report:

1. Steam Flow (k lb/hr)
2. Baghouse Inlet Temperature (degrees F)
3. Carbon Feed Rate (lbs/hr)
4. Crane Weigh Scale Print Outs (The crane weigh scale print outs will be kept on file for review, please note that copies of the scale print out are of poor quality.)
5. CO, SO2, NOx, and NH3 injection CEMS data for the January 2012 compliance test.
6. CO, SO2, NOx, and NH3 injection CEMS data for the March 2012 compliance test.
7. Biosolid Analysis from the City of Cape Coral.

TABLE 5.0 METHODOLOGY

REFERENCES

Parameter	Test Method	Reference
Particulate Matter (PM)	EPA Method 5	40 CFR 60, App. A
Multi-metals (MMTL)	EPA Method 29	40 CFR 60, App. A
Mercury (Hg)	EPA Method 29	40 CFR 60, App. A

APPENDIX A:

January 2012 CEM Process Data

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc. 10500 Buchingham Road Fort Myers, FL 33905
Data Group:	U1_1 HOUR DATA
Report Name:	No Title
Start of Report:	01/25/2012 00:00
End of Report:	01/25/2012 23:59

Validation: Valid Data Only

Group#-Channel#	G65-C35	G65-C37
Long Descrip.	U-1 Steam	U-1 Bagho
Short Descrip.	SteamFl	BagHTemp
Units	K#/Hr	deg F
Range	0-250	100-600
01/25/2012 00:00	141.8	290
01/25/2012 01:00	142.4	290
01/25/2012 02:00	138.5	289
01/25/2012 03:00	140.5	290
01/25/2012 04:00	140.2	290
01/25/2012 05:00	152.4	290
01/25/2012 06:00	158.1	290
01/25/2012 07:00	156.6	289
01/25/2012 08:00	160.1	290
01/25/2012 09:00	159.8	290
01/25/2012 10:00	159.6	290
01/25/2012 11:00	159.9	290
01/25/2012 12:00	159.8	290
01/25/2012 13:00	161.1	289
01/25/2012 14:00	159.2	290
01/25/2012 15:00	159.8	290
01/25/2012 16:00	147.7	300
01/25/2012 17:00	141.7	290
01/25/2012 18:00	142.4	290
01/25/2012 19:00	141.3	290
01/25/2012 20:00	140.1	290
01/25/2012 21:00	141.9	290
01/25/2012 22:00	142.1	290
01/25/2012 23:00	141.4	290
Period Average =	149.5	290
Period Max Value =	161.1	300
Period Min Value =	138.5	289
Period Totals =	3.5884E+3	6.9670E+3
Period % Recovery =	100.0	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company: Covanta Lee, Inc.
10500 Buchingham Road
Fort Myers, FL 33905

Data Group: U1_1 HOUR DATA
Report Name: No Title
Start of Report: 01/26/2012 00:00
End of Report: 01/26/2012 23:59

Validation: Valid Data Only

Group#-Channel#	G65-C35	G65-C37
Long Descrip.	U-1 Steam	U-1 Bagho
Short Descrip.	SteamFl	BagHTemp
Units	K#/Hr	deg F
Range	0-250	100-600
01/26/2012 00:00	140.7	290
01/26/2012 01:00	137.6	290
01/26/2012 02:00	136.1	289
01/26/2012 03:00	139.8	290
01/26/2012 04:00	132.7	290
01/26/2012 05:00	146.9	291
01/26/2012 06:00	150.1	290
01/26/2012 07:00	152.5	290
01/26/2012 08:00	160.4	290
01/26/2012 09:00	159.3	290
01/26/2012 10:00	160.1	290
01/26/2012 11:00	160.4	289
01/26/2012 12:00	159.1	290
01/26/2012 13:00	158.1	289
01/26/2012 14:00	161.1	291
01/26/2012 15:00	156.4	290
01/26/2012 16:00	148.4	294
01/26/2012 17:00	142.9	294
01/26/2012 18:00	143.1	295
01/26/2012 19:00	140.5	295
01/26/2012 20:00	145.4	295
01/26/2012 21:00	149.7	295
01/26/2012 22:00	151.9	294
01/26/2012 23:00	152.7	295
Period Average =	149.4	292
Period Max Value =	161.1	295
Period Min Value =	132.7	289
Period Totals =	3.5859E+3	6.9960E+3
Period % Recovery =	100.0	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc. 10500 Buckingham Road Fort Myers, FL 33905
Data Group:	U1_1 HOUR DATA
Report Name:	No Title
Start of Report:	01/25/2012 00:00
End of Report:	01/25/2012 23:59

Validation: Valid Data Only

Group#-Channel#	G65-C40
Long Descrip.	U-1 Carbo
Short Descrip.	CarbInj
Units	#/hr
Range	0-75

01/25/2012 00:00	20.8
01/25/2012 01:00	20.5
01/25/2012 02:00	20.6
01/25/2012 03:00	20.6
01/25/2012 04:00	20.6
01/25/2012 05:00	20.6
01/25/2012 06:00	20.3
01/25/2012 07:00	20.1
01/25/2012 08:00	20.1
01/25/2012 09:00	20.1
01/25/2012 10:00	20.0
01/25/2012 11:00	19.9
01/25/2012 12:00	19.7
01/25/2012 13:00	20.2
01/25/2012 14:00	20.0
01/25/2012 15:00	20.4
01/25/2012 16:00	27.0
01/25/2012 17:00	27.0
01/25/2012 18:00	26.8
01/25/2012 19:00	26.9
01/25/2012 20:00	26.8
01/25/2012 21:00	26.8
01/25/2012 22:00	26.9
01/25/2012 23:00	26.9

Period Average =	22.5
Period Max Value =	27.0
Period Min Value =	19.7
Period Totals =	5.3960E+2
Period % Recovery =	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc. 10500 Buchingham Road Fort Myers, FL 33905
Data Group:	U1_1 HOUR DATA
Report Name:	No Title
Start of Report:	01/26/2012 00:00
End of Report:	01/26/2012 23:59

Validation: Valid Data Only

Group#-Channel#	G65-C40
Long Descrip.	U-1 Carbo
Short Descrip.	CarbInj
Units	#/hr
Range	0-75

01/26/2012 00:00	27.0
01/26/2012 01:00	26.8
01/26/2012 02:00	26.9
01/26/2012 03:00	27.0
01/26/2012 04:00	26.9
01/26/2012 05:00	26.8
01/26/2012 06:00	26.8
01/26/2012 07:00	26.9
01/26/2012 08:00	26.9
01/26/2012 09:00	26.9
01/26/2012 10:00	26.9
01/26/2012 11:00	26.5
01/26/2012 12:00	26.7
01/26/2012 13:00	26.8
01/26/2012 14:00	27.0
01/26/2012 15:00	26.7
01/26/2012 16:00	26.2
01/26/2012 17:00	26.3
01/26/2012 18:00	26.3
01/26/2012 19:00	26.5
01/26/2012 20:00	26.9
01/26/2012 21:00	26.6
01/26/2012 22:00	26.7
01/26/2012 23:00	26.7

Period Average =	26.7
Period Max Value =	27.0
Period Min Value =	26.2
Period Totals =	6.4180E+2
Period % Recovery =	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company: Covanta Lee, Inc.
10500 Buchingham Road
Fort Myers, FL 33905

Data Group: All Data Groups
Report Name: No Title
Start of Report: 01/26/2012 00:00
End of Report: 01/26/2012 23:59
Validation: Valid Data Only

Group#-Channel#	G66-C2	G65-C18	G65-C20	G65-C42
Long Descrip.	U-1 Stack	U-1 Stack	U-1 Stack	U-1 Ammon
Short Descrip.	COsc	SO2sc	NOXsc	NH3Inj
Units	ppmc	ppmc	ppmc	scfm
Range	0-10000	0-2000	0-2500	0-100
01/26/2012 00:00	14	0	141	3.3
01/26/2012 01:00		0	139	3.4
01/26/2012 02:00		0	140	3.0
01/26/2012 03:00		6	139	3.3
01/26/2012 04:00	13	57	142	2.9
01/26/2012 05:00		9	143	4.1
01/26/2012 06:00		1	132	4.6
01/26/2012 07:00		3	142	5.0
01/26/2012 08:00	10	12	148	7.1
01/26/2012 09:00		3	143	6.3
01/26/2012 10:00		1	143	6.2
01/26/2012 11:00		2	142	5.5
01/26/2012 12:00	11	0	143	5.7
01/26/2012 13:00		1	140	6.1
01/26/2012 14:00		12	144	6.9
01/26/2012 15:00		9	145	5.5
01/26/2012 16:00	10	1	150	4.1
01/26/2012 17:00		3	151	3.5
01/26/2012 18:00		4	151	3.8
01/26/2012 19:00		2	151	3.5
01/26/2012 20:00	11	4	152	3.5
01/26/2012 21:00		25	154	3.7
01/26/2012 22:00		23	153	4.5
01/26/2012 23:00		3	151	4.5
Period Average =	12	8	145	4.6
Period Max Value =	14	57	154	7.1
Period Min Value =	10	0	132	2.9
Period Totals =	6.9000E+1	1.8100E+2	3.4790E+3	1.1000E+2
Period % Recovery =	100.0	100.0	100.0	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc.
	10500 Buchingham Road
	Fort Myers, FL 33905
Data Group:	U1_6 MIN OPACITY
Report Name:	No Title
Start of Report:	01/26/2012 00:00
End of Report:	01/26/2012 23:59

Validation: Valid Data Only

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

01/26/2012 00:00	0
01/26/2012 00:06	0
01/26/2012 00:12	0
01/26/2012 00:18	0
01/26/2012 00:24	0
01/26/2012 00:30	0
01/26/2012 00:36	0
01/26/2012 00:42	0
01/26/2012 00:48	0
01/26/2012 00:54	0
01/26/2012 01:00	0
01/26/2012 01:06	0
01/26/2012 01:12	0
01/26/2012 01:18	0
01/26/2012 01:24	0
01/26/2012 01:30	0
01/26/2012 01:36	0
01/26/2012 01:42	0
01/26/2012 01:48	0
01/26/2012 01:54	0
01/26/2012 02:00	0
01/26/2012 02:06	0
01/26/2012 02:12	0
01/26/2012 02:18	0
01/26/2012 02:24	0
01/26/2012 02:30	0
01/26/2012 02:36	0
01/26/2012 02:42	0
01/26/2012 02:48	0
01/26/2012 02:54	0
01/26/2012 03:00	0
01/26/2012 03:06	0
01/26/2012 03:12	0
01/26/2012 03:18	0
01/26/2012 03:24	0
01/26/2012 03:30	0
01/26/2012 03:36	0
01/26/2012 03:42	0
01/26/2012 03:48	0

Date/Time Printed: 05/17/2012 08:34

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

01/26/2012 03:54	0
01/26/2012 04:00	0
01/26/2012 04:06	0
01/26/2012 04:12	0
01/26/2012 04:18	0
01/26/2012 04:24	0
01/26/2012 04:30	0
01/26/2012 04:36	0
01/26/2012 04:42	0
01/26/2012 04:48	0
01/26/2012 04:54	0
01/26/2012 05:00	0
01/26/2012 05:06	0
01/26/2012 05:12	0
01/26/2012 05:18	0
01/26/2012 05:24	0
01/26/2012 05:30	0
01/26/2012 05:36	0
01/26/2012 05:42	0
01/26/2012 05:48	0
01/26/2012 05:54	0
01/26/2012 06:00	0
01/26/2012 06:06	0
01/26/2012 06:12	0
01/26/2012 06:18	0
01/26/2012 06:24	0
01/26/2012 06:30	0
01/26/2012 06:36	0
01/26/2012 06:42	0
01/26/2012 06:48	0
01/26/2012 06:54	0
01/26/2012 07:12	0
01/26/2012 07:18	0
01/26/2012 07:24	0
01/26/2012 07:30	0
01/26/2012 07:36	0
01/26/2012 07:42	0
01/26/2012 07:48	0
01/26/2012 07:54	0
01/26/2012 08:00	0
01/26/2012 08:06	0
01/26/2012 08:12	0
01/26/2012 08:18	0
01/26/2012 08:24	0
01/26/2012 08:30	0
01/26/2012 08:36	0
01/26/2012 08:42	0
01/26/2012 08:48	0
01/26/2012 08:54	0
01/26/2012 09:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

01/26/2012 09:06	0
01/26/2012 09:12	0
01/26/2012 09:18	0
01/26/2012 09:24	0
01/26/2012 09:30	0
01/26/2012 09:36	0
01/26/2012 09:42	0
01/26/2012 09:48	0
01/26/2012 09:54	0
01/26/2012 10:00	0
01/26/2012 10:06	0
01/26/2012 10:12	0
01/26/2012 10:18	0
01/26/2012 10:24	0
01/26/2012 10:30	0
01/26/2012 10:36	0
01/26/2012 10:42	0
01/26/2012 10:48	0
01/26/2012 10:54	0
01/26/2012 11:00	0
01/26/2012 11:06	0
01/26/2012 11:12	0
01/26/2012 11:18	0
01/26/2012 11:24	0
01/26/2012 11:30	0
01/26/2012 11:36	0
01/26/2012 11:42	0
01/26/2012 11:48	0
01/26/2012 11:54	0
01/26/2012 12:00	0
01/26/2012 12:06	0
01/26/2012 12:12	0
01/26/2012 12:18	0
01/26/2012 12:24	0
01/26/2012 12:30	0
01/26/2012 12:36	0
01/26/2012 12:42	0
01/26/2012 12:48	0
01/26/2012 12:54	0
01/26/2012 13:00	0
01/26/2012 13:06	0
01/26/2012 13:12	0
01/26/2012 13:18	0
01/26/2012 13:24	0
01/26/2012 13:30	0
01/26/2012 13:36	0
01/26/2012 13:42	0
01/26/2012 13:48	0
01/26/2012 13:54	0
01/26/2012 14:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

01/26/2012 14:06	0
01/26/2012 14:12	0
01/26/2012 14:18	0
01/26/2012 14:24	0
01/26/2012 14:30	0
01/26/2012 14:36	0
01/26/2012 14:42	0
01/26/2012 14:48	0
01/26/2012 14:54	0
01/26/2012 15:00	0
01/26/2012 15:06	0
01/26/2012 15:12	0
01/26/2012 15:18	0
01/26/2012 15:24	0
01/26/2012 15:30	0
01/26/2012 15:36	0
01/26/2012 15:42	1
01/26/2012 15:48	0
01/26/2012 15:54	0
01/26/2012 16:00	0
01/26/2012 16:06	0
01/26/2012 16:12	0
01/26/2012 16:18	0
01/26/2012 16:24	0
01/26/2012 16:30	0
01/26/2012 16:36	0
01/26/2012 16:42	0
01/26/2012 16:48	0
01/26/2012 16:54	0
01/26/2012 17:00	0
01/26/2012 17:06	0
01/26/2012 17:12	0
01/26/2012 17:18	0
01/26/2012 17:24	0
01/26/2012 17:30	0
01/26/2012 17:36	0
01/26/2012 17:42	0
01/26/2012 17:48	0
01/26/2012 17:54	0
01/26/2012 18:00	0
01/26/2012 18:06	0
01/26/2012 18:12	0
01/26/2012 18:18	0
01/26/2012 18:24	0
01/26/2012 18:30	0
01/26/2012 18:36	0
01/26/2012 18:42	0
01/26/2012 18:48	0
01/26/2012 18:54	0
01/26/2012 19:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

01/26/2012 19:06	0
01/26/2012 19:12	0
01/26/2012 19:18	0
01/26/2012 19:24	0
01/26/2012 19:30	0
01/26/2012 19:36	0
01/26/2012 19:42	0
01/26/2012 19:48	0
01/26/2012 19:54	0
01/26/2012 20:00	0
01/26/2012 20:06	0
01/26/2012 20:12	0
01/26/2012 20:18	0
01/26/2012 20:24	0
01/26/2012 20:30	0
01/26/2012 20:36	0
01/26/2012 20:42	0
01/26/2012 20:48	0
01/26/2012 20:54	0
01/26/2012 21:00	0
01/26/2012 21:06	0
01/26/2012 21:12	0
01/26/2012 21:18	0
01/26/2012 21:24	0
01/26/2012 21:30	0
01/26/2012 21:36	0
01/26/2012 21:42	0
01/26/2012 21:48	0
01/26/2012 21:54	0
01/26/2012 22:00	0
01/26/2012 22:06	0
01/26/2012 22:12	0
01/26/2012 22:18	0
01/26/2012 22:24	0
01/26/2012 22:30	0
01/26/2012 22:36	0
01/26/2012 22:42	0
01/26/2012 22:48	0
01/26/2012 22:54	0
01/26/2012 23:00	0
01/26/2012 23:06	0
01/26/2012 23:12	0
01/26/2012 23:18	0
01/26/2012 23:24	0
01/26/2012 23:30	0
01/26/2012 23:36	0
01/26/2012 23:42	0
01/26/2012 23:48	0
01/26/2012 23:54	0

Period Average =	0
Period Max Value =	1
Period Min Value =	0
Period Totals =	1.0000E+0
Period % Recovery =	99.2

APPENDIX B:

March 2012 CEM Process Data w/ Biosolids

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company: Covanta Lee, Inc.
10500 Buchingham Road
Fort Myers, FL 33905

Data Group: U1_1 HOUR DATA
Report Name: No Title
Start of Report: 03/28/2012 06:00
End of Report: 03/29/2012 06:59

Validation: Valid Data Only

Group#-Channel#	G65-C35	G65-C37
Long Descrip.	U-1 Steam	U-1 Bagho
Short Descrip.	SteamFl	BagHTemp
Units	K#/Hr	deg F
Range	0-250	100-600
03/28/2012 06:00	159.8	299
03/28/2012 07:00	161.2	299
03/28/2012 08:00	160.9	298
03/28/2012 09:00	159.2	298
03/28/2012 10:00	160.1	299
03/28/2012 11:00	160.5	299
03/28/2012 12:00	159.2	299
03/28/2012 13:00	158.2	298
03/28/2012 14:00	161.2	299
03/28/2012 15:00	159.9	299
03/28/2012 16:00	159.4	299
03/28/2012 17:00	160.0	298
03/28/2012 18:00	161.3	298
03/28/2012 19:00	159.9	299
03/28/2012 20:00	159.0	298
03/28/2012 21:00	160.4	298
03/28/2012 22:00	160.3	298
03/28/2012 23:00	159.9	298
03/29/2012 00:00	160.9	298
03/29/2012 01:00	160.7	299
03/29/2012 02:00	160.2	299
03/29/2012 03:00	157.4	299
03/29/2012 04:00	160.5	300
03/29/2012 05:00	160.1	299
03/29/2012 06:00	160.0	300
Period Average =	160.0	299
Period Max Value =	161.3	300
Period Min Value =	157.4	298
Period Totals =	4.0002E+3	7.4670E+3
Period % Recovery =	100.0	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc. 10500 Buchingham Road Fort Myers, FL 33905
Data Group:	U1_1 HOUR DATA
Report Name:	No Title
Start of Report:	03/28/2012 06:00
End of Report:	03/29/2012 06:59

Validation: Valid Data Only

Group#-Channel#	G65-C40
Long Descrip.	U-1 Carbo
Short Descrip.	CarbInj
Units	#/hr
Range	0-75

03/28/2012 06:00	20.2
03/28/2012 07:00	20.3
03/28/2012 08:00	20.3
03/28/2012 09:00	20.2
03/28/2012 10:00	20.3
03/28/2012 11:00	20.3
03/28/2012 12:00	20.2
03/28/2012 13:00	20.2
03/28/2012 14:00	20.3
03/28/2012 15:00	20.2
03/28/2012 16:00	21.3
03/28/2012 17:00	22.1
03/28/2012 18:00	22.0
03/28/2012 19:00	22.1
03/28/2012 20:00	22.0
03/28/2012 21:00	22.0
03/28/2012 22:00	22.0
03/28/2012 23:00	22.1
03/29/2012 00:00	22.0
03/29/2012 01:00	22.0
03/29/2012 02:00	21.5
03/29/2012 03:00	21.7
03/29/2012 04:00	21.7
03/29/2012 05:00	21.6
03/29/2012 06:00	21.7

Period Average =	21.2
Period Max Value =	22.1
Period Min Value =	20.2
Period Totals =	5.3030E+2
Period % Recovery =	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company: Covanta Lee, Inc.
10500 Buchingham Road
Fort Myers, FL 33905

Data Group: All Data Groups
Report Name: No Title
Start of Report: 03/28/2012 06:00
End of Report: 03/29/2012 06:59

Validation: Valid Data Only

Group#-Channel#	G66-C2	G65-C18	G65-C20	G65-C42
Long Descrip.	U-1 Stack	U-1 Stack	U-1 Stack	U-1 Ammon
Short Descrip.	COsc	SO2sc	NOXsc	NH3Inj
Units	ppmc	ppmc	ppmc	scfm
Range	0-10000	0-2000	0-2500	0-100
03/28/2012 06:00		2	168	4.5
03/28/2012 07:00		3	151	5.0
03/28/2012 08:00	11	3	149	4.5
03/28/2012 09:00		2	142	5.1
03/28/2012 10:00		9	142	5.2
03/28/2012 11:00		13	142	6.1
03/28/2012 12:00	12	4	145	5.0
03/28/2012 13:00		8	144	5.6
03/28/2012 14:00		38	143	6.1
03/28/2012 15:00		21	144	5.9
03/28/2012 16:00	11	11	151	5.0
03/28/2012 17:00		7	152	5.2
03/28/2012 18:00		7	153	5.7
03/28/2012 19:00		4	153	5.2
03/28/2012 20:00	12	12	152	4.7
03/28/2012 21:00		17	152	4.8
03/28/2012 22:00		8	153	5.3
03/28/2012 23:00		28	155	4.8
03/29/2012 00:00	11	7	152	5.4
03/29/2012 01:00		10	153	5.5
03/29/2012 02:00		3	153	4.6
03/29/2012 03:00		32	152	4.7
03/29/2012 04:00	11	15	152	4.9
03/29/2012 05:00		9	154	4.6
03/29/2012 06:00		9	163	3.9
Period Average =	11	11	151	5.1
Period Max Value =	12	38	168	6.1
Period Min Value =	11	2	142	3.9
Period Totals =	6.8000E+1	2.8200E+2	3.7700E+3	1.2730E+2
Period % Recovery =	100.0	100.0	100.0	100.0

Data Summary Report

COVANTA ENERGY

Lee County Solid Waste Resource Recovery Facility

Company:	Covanta Lee, Inc.
	10500 Buchingham Road
	Fort Myers, FL 33905
Data Group:	U1_6 MIN OPACITY
Report Name:	No Title
Start of Report:	03/28/2012 06:00
End of Report:	03/29/2012 06:59

Validation: Valid Data Only

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/28/2012 06:00	0
03/28/2012 06:06	0
03/28/2012 06:12	0
03/28/2012 06:18	0
03/28/2012 06:24	0
03/28/2012 06:30	0
03/28/2012 06:36	0
03/28/2012 06:42	0
03/28/2012 06:48	0
03/28/2012 06:54	0
03/28/2012 07:12	0
03/28/2012 07:18	0
03/28/2012 07:24	0
03/28/2012 07:30	0
03/28/2012 07:36	0
03/28/2012 07:42	0
03/28/2012 07:48	0
03/28/2012 07:54	0
03/28/2012 08:00	0
03/28/2012 08:06	0
03/28/2012 08:12	0
03/28/2012 08:18	0
03/28/2012 08:24	0
03/28/2012 08:30	0
03/28/2012 08:36	0
03/28/2012 08:42	0
03/28/2012 08:48	0
03/28/2012 08:54	0
03/28/2012 09:00	0
03/28/2012 09:06	0
03/28/2012 09:12	0
03/28/2012 09:18	0
03/28/2012 09:24	0
03/28/2012 09:30	0
03/28/2012 09:36	0
03/28/2012 09:42	0
03/28/2012 09:48	0
03/28/2012 09:54	0
03/28/2012 10:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/28/2012 10:06	0
03/28/2012 10:12	0
03/28/2012 10:18	0
03/28/2012 10:24	0
03/28/2012 10:30	0
03/28/2012 10:36	0
03/28/2012 10:42	0
03/28/2012 10:48	0
03/28/2012 10:54	0
03/28/2012 11:00	0
03/28/2012 11:06	0
03/28/2012 11:12	0
03/28/2012 11:18	0
03/28/2012 11:24	0
03/28/2012 11:30	0
03/28/2012 11:36	0
03/28/2012 11:42	0
03/28/2012 11:48	0
03/28/2012 11:54	0
03/28/2012 12:00	0
03/28/2012 12:06	0
03/28/2012 12:12	0
03/28/2012 12:18	0
03/28/2012 12:24	0
03/28/2012 12:30	0
03/28/2012 12:36	0
03/28/2012 12:42	0
03/28/2012 12:48	0
03/28/2012 12:54	0
03/28/2012 13:00	0
03/28/2012 13:06	0
03/28/2012 13:12	0
03/28/2012 13:18	0
03/28/2012 13:24	0
03/28/2012 13:30	0
03/28/2012 13:36	0
03/28/2012 13:42	0
03/28/2012 13:48	0
03/28/2012 13:54	0
03/28/2012 14:00	0
03/28/2012 14:06	0
03/28/2012 14:12	0
03/28/2012 14:18	0
03/28/2012 14:24	0
03/28/2012 14:30	0
03/28/2012 14:36	0
03/28/2012 14:42	0
03/28/2012 14:48	0
03/28/2012 14:54	0
03/28/2012 15:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/28/2012 15:06	0
03/28/2012 15:12	0
03/28/2012 15:18	0
03/28/2012 15:24	0
03/28/2012 15:30	0
03/28/2012 15:36	0
03/28/2012 15:42	0
03/28/2012 15:48	0
03/28/2012 15:54	0
03/28/2012 16:00	0
03/28/2012 16:06	0
03/28/2012 16:12	0
03/28/2012 16:18	0
03/28/2012 16:24	0
03/28/2012 16:30	0
03/28/2012 16:36	0
03/28/2012 16:42	0
03/28/2012 16:48	0
03/28/2012 16:54	0
03/28/2012 17:00	0
03/28/2012 17:06	0
03/28/2012 17:12	0
03/28/2012 17:18	0
03/28/2012 17:24	0
03/28/2012 17:30	0
03/28/2012 17:36	0
03/28/2012 17:42	0
03/28/2012 17:48	0
03/28/2012 17:54	0
03/28/2012 18:00	0
03/28/2012 18:06	0
03/28/2012 18:12	0
03/28/2012 18:18	0
03/28/2012 18:24	0
03/28/2012 18:30	0
03/28/2012 18:36	0
03/28/2012 18:42	0
03/28/2012 18:48	0
03/28/2012 18:54	0
03/28/2012 19:00	0
03/28/2012 19:06	0
03/28/2012 19:12	0
03/28/2012 19:18	0
03/28/2012 19:24	0
03/28/2012 19:30	0
03/28/2012 19:36	0
03/28/2012 19:42	0
03/28/2012 19:48	0
03/28/2012 19:54	0
03/28/2012 20:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/28/2012 20:06	0
03/28/2012 20:12	0
03/28/2012 20:18	0
03/28/2012 20:24	0
03/28/2012 20:30	0
03/28/2012 20:36	0
03/28/2012 20:42	0
03/28/2012 20:48	0
03/28/2012 20:54	0
03/28/2012 21:00	0
03/28/2012 21:06	0
03/28/2012 21:12	0
03/28/2012 21:18	0
03/28/2012 21:24	0
03/28/2012 21:30	0
03/28/2012 21:36	0
03/28/2012 21:42	0
03/28/2012 21:48	0
03/28/2012 21:54	0
03/28/2012 22:00	0
03/28/2012 22:06	0
03/28/2012 22:12	0
03/28/2012 22:18	0
03/28/2012 22:24	0
03/28/2012 22:30	0
03/28/2012 22:36	0
03/28/2012 22:42	0
03/28/2012 22:48	0
03/28/2012 22:54	0
03/28/2012 23:00	0
03/28/2012 23:06	0
03/28/2012 23:12	0
03/28/2012 23:18	0
03/28/2012 23:24	0
03/28/2012 23:30	0
03/28/2012 23:36	0
03/28/2012 23:42	0
03/28/2012 23:48	0
03/28/2012 23:54	0
03/29/2012 00:00	0
03/29/2012 00:06	0
03/29/2012 00:12	0
03/29/2012 00:18	0
03/29/2012 00:24	0
03/29/2012 00:30	0
03/29/2012 00:36	0
03/29/2012 00:42	0
03/29/2012 00:48	0
03/29/2012 00:54	0
03/29/2012 01:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/29/2012 01:06	0
03/29/2012 01:12	0
03/29/2012 01:18	0
03/29/2012 01:24	0
03/29/2012 01:30	0
03/29/2012 01:36	0
03/29/2012 01:42	0
03/29/2012 01:48	0
03/29/2012 01:54	0
03/29/2012 02:00	0
03/29/2012 02:06	0
03/29/2012 02:12	0
03/29/2012 02:18	0
03/29/2012 02:24	0
03/29/2012 02:30	0
03/29/2012 02:36	0
03/29/2012 02:42	0
03/29/2012 02:48	0
03/29/2012 02:54	0
03/29/2012 03:00	0
03/29/2012 03:06	0
03/29/2012 03:12	0
03/29/2012 03:18	0
03/29/2012 03:24	0
03/29/2012 03:30	0
03/29/2012 03:36	0
03/29/2012 03:42	0
03/29/2012 03:48	0
03/29/2012 03:54	0
03/29/2012 04:00	0
03/29/2012 04:06	0
03/29/2012 04:12	0
03/29/2012 04:18	0
03/29/2012 04:24	0
03/29/2012 04:30	0
03/29/2012 04:36	0
03/29/2012 04:42	0
03/29/2012 04:48	0
03/29/2012 04:54	0
03/29/2012 05:00	0
03/29/2012 05:06	0
03/29/2012 05:12	0
03/29/2012 05:18	0
03/29/2012 05:24	0
03/29/2012 05:30	0
03/29/2012 05:36	0
03/29/2012 05:42	0
03/29/2012 05:48	0
03/29/2012 05:54	0
03/29/2012 06:00	0

Group#-Channel#	G43-C1
Long Descrip.	U-1 Opaci
Short Descrip.	Opacity
Units	%
Range	0-100

03/29/2012 06:06	0
03/29/2012 06:12	0
03/29/2012 06:18	0
03/29/2012 06:24	0
03/29/2012 06:30	0
03/29/2012 06:36	0
03/29/2012 06:42	0
03/29/2012 06:48	0
03/29/2012 06:54	0

Period Average =	0
Period Max Value =	0
Period Min Value =	0
Period Totals =	0.0000E+0
Period % Recovery =	99.2

APPENDIX C:

Sludge Analysis- Laboratory Test Report

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: F1203126

Page 1 of 3

All subsequent pages are identified by: F1203126. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Tami Bright

Client: City of Cape Coral

PO Box 150027

Cape Coral, FL 33915

Phone: 239-574-0784

Fax: 239-574-0861

E-mail:

Project Name: 503 Sludge Analysis Class "B"

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

R. Koutselas

Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Comments:
The MPN sample was orginally ran on 3/8/2012 however the results were erroneously high it was then reran twice with higher dilutions and Q is needed for rerun.

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: City of Cape Coral
Client Project: 503 Sludge Analysis

Page: Page 1 of 1
Lab Project: F1203126
Report Date: 03/22/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1203126-01	503 SLUDGE	Sludge	COMPOSITE	3/8/12 8:45	3/1/12 9:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
pH (solid)	6.23	Q	0.01	0.01	std units	EPA9040	NB120309065	3/9/12 11:00	WC	E84380
Total Solids %	13.4		0.01	0.01	%	SM2540G	NB120313020	3/9/12 9:10	DM	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1203126-02	503 SLUDGE	Sludge	COMPOSITE	3/8/12 8:45	3/5/12 9:05

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Nitrogen, Total %	7.50		0.01	0.01	% dry wt	EPA351.2/353.2	NB120320029	3/16/12 13:13	JPW	E84380
Phosphorus, Total %	2.73		0.01	0.01	% dry wt	EPA365.4	NB120320025	3/16/12 13:13	JPW	E84380

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1203126-03	503 SLUDGE	Sludge	COMPOSITE	3/8/12 8:45	3/7/12 8:40

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Arsenic	4.78	U	4.78	19.1	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Cadmium	0.90	I	0.90	3.58	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Copper	149		1.87	7.46	mg/Kg dry	6010B	NB120320059	3/16/12 18:03	HBEL	E96080
Lead	9.70	I	4.03	16.1	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Mercury, Total (solid)	0.82		0.13	0.51	mg/Kg dry	EPA7470	NB120320060	3/19/12 15:37	HBEL	E96080
Molybdenum	7.31	I	2.91	11.6	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Nickel	9.70	I	2.69	10.8	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Potassium, Total %	0.68		0.01	0.01	% dry wt	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Selenium	5.30	U	5.30	21.2	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080
Zinc	1490		26.9	107	mg/Kg dry	6010B	NB120320059	3/14/12 17:22	HBEL	E96080

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1203126-04	503 SLUDGE	Sludge	COMPOSITE	3/8/12 8:45	3/8/12 7:50

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Fecal Coliform, MPN	1490	Q	200	200	MPN/g	SM9221E	FB120322006	3/20/12 15:20	LV	E85457

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT #: F1203126

Page ____ of ____

Client: CITY OF CAPE CORAL
Address: 3310 SW 20th AVE
Phone: 574-0850 Fax: 5740853

Report To: JEFF WALTER
Bill To:
P.O. #:
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: SLUDGE
Project Location:
Customer Type:
Kit #:
REQUESTED DUE DATE: 3/16/12

Sampled By (PRINT):
Sampler Signature:

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	pH	ICE						503 analysis	503 metals/Hg	Ph %TS	%TN %TP	Fecal MPN						Sample ID #
	503 Sludge	3/1/12	09:00	C		1								✓								-01A
	" "	3/5/12	0805	C		1									✓							-02A
	" "	3/7/12	0840	C		1							✓			X 3/8/12						-03A
	503 Sludge	3/8/12	07:30	C		1										✓						-04A

Bottle Lot #		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		Rey Carvalho	07:30	3/8/12	Rey Carvalho	8:45	3/8/12
	COMMENTS:	OKAY TO RUN AS IS...			Michelle Mariginiak	3/8/12	0845
		CLIENT INITIAL:					
	14.3	SAMPLES ON ICE (Yes) No					