

**APPENDIX 3**  
**ASH SAMPLING & ANALYSIS REPORTS**

**ASH CHARACTERIZATION REPORT  
MID-CONNECTICUT RESOURCE RECOVERY FACILITY**

COVANTA ENERGY GROUP, INC.  
ENVIRONMENTAL ENGINEERING DEPARTMENT

ENVIRONMENTAL TEST REPORT  
FOR  
COVANTA MID-CONN, INC.

RECEIVED

CEG REPORT NO.: 3218  
REPORT DATE: November 12, 2007  
PREPARED FOR: Covanta Mid-Conn, Inc.  
PURPOSE: Characterization of Ash Residue  
SAMPLE PERIOD: June 12 through June 22, 2007  
PREPARED BY: Covanta Energy Group, Inc.  
Department 14 - CEM/Emissions Testing

ENVIRONMENTAL

ASH RESIDUE CHARACTERIZATION REPORT  
FOR  
COVANTA MID-CONN. INC.

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## 1.0 INTRODUCTION

An ash residue characterization program (Program) was implemented at the Covanta Mid-Conn, Inc. Facility (Facility) located in Hartford, Connecticut. The Program was designed to incorporate the sampling and analytical procedures in EPA's May 24, 1994 draft guidance document "Sampling and Analysis of Municipal Refuse Incinerator Ash"<sup>(1)</sup> and its supporting document "Test Methods for Evaluating Solid Waste (SW-846)."<sup>(2)</sup> The Program is consistent with the EPA's final guidance on ash sampling.<sup>(3)</sup> Combined ash was sampled from the inclined conveyor downstream of the pug mill and prior to entering the ash residue building. This location has been determined to be representative of the point of generation and is consistent with the January 25, 1995 EPA decision regarding appropriate ash testing locations for determining toxicity characteristics.

Ash sampling at the Facility was performed by representatives of the Facility between June 12 and June 22, 2007. Fourteen (14) 8-hour shifts are represented by this sample period with each shift being represented by one shift composite subsample, totaling 14 composite subsamples. The shift composite subsamples were delivered to a laboratory for analysis in accordance with the U.S. EPA Toxicity Characteristic Leaching Procedure (TCLP), Method 1311, as described in 40 CFR 261, Appendix II. A minimum of one (1) aliquot from each of the fourteen composite subsamples was analyzed, totaling 14 analyses.

## 2.0 FIELD ASH SAMPLING PROCEDURES

Field sampling occurred over the period between June 12 and June 22, 2007. Field sampling consisted of two phases: 1) acquisition of grab samples, and 2) generation of hourly composite sample and shift composite subsamples.

The grab samples occurred at a 15-minute frequency. Samples were obtained from Inclined Conveyor 5B, which is downstream of the pug mill and upstream of Conveyor 6B, which transports the combined ash into the ash building. A shovel was used to obtain a shovel swipe of the entire conveyor width. The grab sample was then placed in a plastic bucket for the hourly composite. The location and method provided random and representative samples.

Field sampling and compositing are designed around 8-hour shifts. Each 8-hour shift is represented by eight hourly composite samples.

Shift composite samples were created by mixing the hourly composite samples either in a cement mixer or on a plastic sheet or broom clean floor and mixed thoroughly with

a shovel. The well-mixed composite material was then spread to create a square of equal depth and was subsequently divided into quarters. Two composite subsamples were created with each composite subsample including a random shovel swipe from each quarter. One (1) composite subsample was labeled and delivered to a laboratory with an accompanying chain-of-custody form, and one (1) was retained on site as a spare.

Table 1 presents a summary of the field sample program scope, schedule and bulk characteristics. The laboratory information used to develop Table 1 is presented in Appendix A. The material listed as being noncrushable was subjected to the EPA size reduction procedures.<sup>(3)</sup>

### 3.0 LABORATORY INFORMATION

#### 3.1 Metals

One shift composite subsample was delivered to Element One, Inc. in Wilmington, North Carolina for each of the 14 operating shifts. This laboratory provided the sample preparation procedures required to reduce the approximate 1 kg. subsamples to representative 100-gram aliquots as required by EPA Method 1311. This laboratory provided the bulk sample characteristics in Table 1, and the analytical scope of services required by EPA Method 1311.

### 4.0 ASH SUBSAMPLE PREPARATION

Each composite subsample was prepared in accordance with the following steps:

1. The entire composite subsample was passed over a two-inch screen. Material passing the 2-inch screen was set aside. Material larger than two inches was struck to determine if it was crushable. If the material did not break, it was weighed and discarded. If it did break and could pass through the two-inch screen, it was recombined with the material naturally less than two inches.
2. The material less than two inches was passed over a 3/8-inch screen. Material passing through the 3/8-inch screen was weighed, recorded and set aside. Material larger than 3/8 inch was weighed, recorded and then passed through a crusher device to reduce the material to be less than 3/8 inch. If material could not be crushed by the machine, this material was subjected to the hammer procedure described above. If the material was made to pass the 3/8-inch screen, it was combined with the material that went through the crushing machine. If the material was not reduced to pass through a 3/8-inch screen after the machine and manual

crushing step, it was recombined with the material larger than two inches that could not be crushed.

The material naturally less than 3/8 inch and the material which was crushed to be less than 3/8 inch were combined and mixed together very well.

3. This combined, well-mixed sample was used to prepare the aliquot for TCLP extraction. The remaining material was saved for further analysis, if required.

## 5.0 ANALYTICAL PROCEDURES

The Toxicity Characteristic Leaching Procedure (TCLP) was performed in accordance with Method 1311 as detailed in the Environmental Protection Agency Manual SW846 - Test Methods for Evaluating Solid Waste - Physical/Chemical Methods. Table 2 presents an overview of the analytical test procedures used in analyzing the TCLP extract from each aliquot. Quality control and assurance procedures used a sample spike, duplicate and blank, at a minimum, on every set of fourteen (14) samples.

## 6.0 DATA ANALYSIS AND CONCLUSION

### 6.1 Overview

The laboratory analytical data presented as Appendix A have been evaluated in accordance with the procedures in SW-846, Chapter 9. The quality assurance and quality control results are submitted with the results in Appendix A.

The statistical procedures set forth in Section 9.1.1.2 and Table 9-1 of SW-846 are based on the set of individual concentrations being treated as a normal distribution.

### 6.2 Analytical Results

The laboratory analytical results are presented in Table 3 and Appendix A of this report. Laboratory results below the detection limit are used in Table 3 as one half of the detection limit.

An evaluation of the analytical results indicates that the cadmium result for sample ID MIDCT/TCLP/CA/06/18/07-1 and the lead result for Sample ID MIDCT/TCLP/CA/06/12/07-2 are statistical outliers based upon a relative comparison with other data and an evaluation by Chauvenet's Criterion as recommended by the EPA. <sup>(4)</sup> These outliers could be addressed by analysis of other aliquots from the

same shift composite subsamples; however, the analysis in this report is limited to statistical reduction of the initial data including these outliers.

### 6.3 Statistical Results

Table 4 presents a comparison of the Regulatory Threshold for each metal analyte and the relevant SW-846 statistical value for determining whether a waste material exhibits a toxic characteristic. Laboratory results below the detection limit are reported as one half of the detection limit.

### 6.4 Conclusion

The analytical data was evaluated in complete compliance with the procedures set forth and required by SW-846. The statistical evaluation has determined that the waste does not exhibit a hazardous characteristic and that it should be managed as a nonhazardous solid waste.



## 7.0 REFERENCES

- (1) Environmental Protection Agency,  
"Sampling and Analysis of Municipal Refuse Incinerator Ash," (Draft Guidance Document) May, 1994.
- (2) Environmental Protection Agency,  
"Manual SW-846 - Test Methods for Evaluating Solid Waste - Physical/Chemical Methods," March, 1992.
- (3) Environmental Protection Agency,  
"Guidance for the Sampling and Analysis of Municipal Waste Combustion Ash for the Toxicity Characteristic," June, 1995.
- (4) Environmental Protection Agency,  
"Introduction to Environmental Statistics."

<b>Table 1</b>						
<b>FIELD ASH SAMPLE SCHEDULE AND BULK CHARACTERISTICS</b>						
<b>Sample</b>	<b>Date</b>	<b>Shifts</b>	<b>Composite Subsample Bulk Characteristics (kg)</b>			<b>Moisture (as Wt.%)</b>
			<b>Greater than 3/8 inches or Non-crushable Metals</b>	<b>Less than 3/8 Inches</b>	<b>Total</b>	
1	June 12, 2007	2	0.00	0.45	0.45	33.9
2	June 13, 2007	2	0.00	0.80	0.80	26.8
3	June 14, 2007	1	0.00	0.55	0.55	27.5
4	June 14, 2007	2	0.00	0.95	0.95	34.0
5	June 15, 2007	1	0.00	0.80	0.80	34.6
6	June 18, 2007	1	0.00	1.05	1.05	34.8
7	June 18, 2007	2	0.00	0.95	0.95	33.6
8	June 19, 2007	1	0.00	1.05	1.05	33.9
9	June 19, 2007	2	0.00	1.05	1.05	35.7
10	June 20, 2007	1	0.00	1.00	1.00	30.0
11	June 20, 2007	2	0.00	1.15	1.15	27.1
12	June 21, 2007	1	0.00	0.95	0.95	28.7
13	June 21, 2007	2	0.00	1.00	1.00	29.7
14	June 22, 2007	1	0.00	0.95	0.95	24.8

<u>Table 2</u>	
<u>ANALYTICAL TEST PROCEDURES</u>	
PARAMETER	ANALYTICAL METHOD (b)
1.0 TCLP (a)	
1.1 TCLP Metals	
Arsenic	6010 (ICP)
Barium	6010 (ICP)
Cadmium	6010 (ICP)
Chromium	6010 (ICP)
Lead	6010 (ICP)
Mercury	7470 (CVAA)
Selenium	6010 (ICP)
Silver	6010 (ICP)
2.0 Moisture	2540-G
<p>(a) EPA Method 1311, Toxic Characterization Leaching Procedure.</p> <p>(b) ICP : Inductively Coupled Plasma Spectroscopy  CVAA : Cold Vapor Atomic Absorption</p>	

TABLE 3 LABORATORY RESULTS FOR THE  
MID-CONNECTICUT RESOURCE RECOVERY VENTURE

3.1 SAMPLE SPECIFIC RESULTS

MIDCT/CA/TCLP/ 06/12/07 -2	<	0.025	<	0.87	<	0.6120	<	0.0250	<	0.1110	<	0.00800	<	0.07	<	0.0250
MIDCT/CA/TCLP/ 06/13/07 -2	<	0.025	<	0.80	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.10	<	0.0250
MIDCT/CA/TCLP/ 06/14/07 -1	<	0.025	<	1.06	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.14	<	0.0250
MIDCT/CA/TCLP/ 06/14/07 -2	<	0.025	<	1.03	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.16	<	0.0250
MIDCT/CA/TCLP/ 06/15/07 -1	<	0.025	<	1.00	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.08	<	0.0250
MIDCT/CA/TCLP/ 06/18/07 -1	<	0.025	<	2.09	<	1.4200	<	0.0250	<	0.0250	<	0.00020	<	0.11	<	0.0250
MIDCT/CA/TCLP/ 06/18/07 -2	<	0.025	<	0.85	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.13	<	0.0250
MIDCT/CA/TCLP/ 06/18/07 -1	<	0.025	<	0.96	<	0.2510	<	0.0250	<	0.0540	<	0.00020	<	0.11	<	0.0250
MIDCT/CA/TCLP/ 06/19/07 -2	<	0.025	<	1.19	<	0.0250	<	0.0250	<	0.0250	<	0.00020	<	0.20	<	0.0250
MIDCT/CA/TCLP/ 06/20/07 -1	<	0.025	<	0.93	<	0.0250	<	0.0250	<	0.0250	<	0.00400	<	0.10	<	0.0250
MIDCT/CA/TCLP/ 06/20/07 -2	<	0.025	<	1.31	<	0.0250	<	0.0250	<	0.0250	<	0.00400	<	0.12	<	0.0250
MIDCT/CA/TCLP/ 06/21/07 -1	<	0.025	<	1.37	<	0.0250	<	0.0250	<	0.0250	<	0.01000	<	0.17	<	0.0250
MIDCT/CA/TCLP/ 06/21/07 -2	<	0.025	<	1.41	<	0.0250	<	0.0250	<	0.0250	<	0.00400	<	0.14	<	0.0250
MIDCT/CA/TCLP/ 06/22/07 -1	<	0.025	<	1.00	<	0.0250	<	0.0250	<	0.0250	<	0.00400	<	0.15	<	0.0250

3.2 STATISTICAL RESULTS

NUMBER OF SAMPLES	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
DEGREES OF FREEDOM	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
SAMPLE MEAN (XBAR)	0.025	1.12	0.183	0.183	0.183	0.183	0.025	0.025	0.033	0.033	0.00254	0.00254	0.127	0.127	0.025	0.025
SAMPLE VARIANCE (S^2)	0.0E+00	0.0E+00	0.12	0.153	0.153	0.153	0.0E+00	0.0E+00	0.001	0.001	1.1E-05	1.1E-05	1.3E-03	1.3E-03	0.0E+00	0.0E+00
STANDARD DEVIATION (S)	0.0E+00	0.0E+00	0.35	0.392	0.392	0.392	0.00E+00	0.00E+00	0.024	0.024	3.3E-03	3.3E-03	3.5E-02	3.5E-02	0.0E+00	0.0E+00
STD ERROR (S XBAR)	0.0E+00	0.0E+00	0.09	0.105	0.105	0.105	0.00E+00	0.00E+00	0.006	0.006	8.7E-04	8.7E-04	9.5E-03	9.5E-03	0.0E+00	0.0E+00
80% CI Upper Limit (actual)	0.025	1.25	0.324	0.324	0.324	0.324	0.025	0.025	0.042	0.042	0.00372	0.00372	0.139	0.139	0.025	0.025
80% CI Upper Limit (exp. of lognormal)	0.025	2.09	1.420	1.420	1.420	1.420	0.025	0.025	0.111	0.111	0.01000	0.01000	0.199	0.199	0.025	0.025
MAXIMUM	0.025	0.67	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.00020	0.00020	0.072	0.072	0.025	0.025
MINIMUM	0.025	5.0	100.0	1.0	1.0	1.0	5.0	5.0	5.0	5.0	0.2	0.2	1.0	1.0	5.0	5.0

3.3 REGULATORY THRESHOLD

(a) Less than symbol (<) indicates laboratory result below the detection limit.  
The value used in this table is one-half (1/2) of the detection limit provided by the laboratory.

<p align="center"><b>Table 4</b>  <b>COMPARISON OF SW-846 STATISTICAL RESULTS</b>  <b>AND REGULATORY THRESHOLDS</b>  <b>FOR METAL ANALYTES</b></p>		
<b>Analyte</b>	<b>90% Upper Confidence Interval per SW-846 (b)</b>	<b>Regulatory Threshold (a)</b>
<b>Metals</b>		
<b>Arsenic</b>	0.025	5.0
<b>Barium</b>	1.25	100.0
<b>Cadmium</b>	0.324	1.0
<b>Chromium</b>	0.025	5.0
<b>Lead</b>	0.042	5.0
<b>Mercury</b>	0.000372	0.2
<b>Selenium</b>	0.139	1.0
<b>Silver</b>	0.025	5.0
<p>(a) 40 CFR Part 261. All units are expressed as milligrams per liter (mg/L).</p> <p>(b) 90% Upper Confidence Interval as a single-tailed distribution is equivalent to an 80% Upper Confidence Interval as a two-tailed distribution.</p>		

**APPENDIX A**

**Laboratory and QA/QC Results  
And  
Bulk Sample Characteristics**



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14 Day Characterization Study - SUMMARY OF TCLP ANALYSES  
Element One, Inc. Project Number e9295

Todd Wheeler  
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Reserve Road Gate 20  
Hartford, CT 06114

July 02, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	June 12-15, 2007 1-5		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled		Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-1-5		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Sample ID	9295-1	9295-2	9295-3	9295-4	9295-5
Chromium, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Arsenic, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium, digested mg/L	0.072	0.096	0.141	0.164	0.084
Silver, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium, digested mg/L	0.612	< 0.05	< 0.05	< 0.05	< 0.05
Barium, digested mg/L	0.667	0.801	1.06	1.03	0.997
Lead, digested mg/L	0.111	< 0.05	< 0.05	< 0.05	< 0.05
Mercury, digested mg/L	0.0008	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Solids	66.1%	73.2%	66.0%	65.4%	65.4%
pH, Initial check	12.56	12.60	12.64	12.58	12.52
pH, Second check	11.31	11.23	11.6	11.71	11.64
pH, Final Leachate	7.72	7.81	8.67	8.72	9.12
pH, Extraction Fluid #2	2.89	2.89	2.89	2.89	2.89

Chromium, Spike Recovery	96%
Arsenic, Spike Recovery	113%
Selenium, Spike Recovery	77%
Silver, Spike Recovery	93%
Cadmium, Spike Recovery	102%
Barium, Spike Recovery	86%
Lead, Spike Recovery	82%
Mercury, Spike Recovery	83%

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

Todd Wheeler  
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July 02, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.12.07/2		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled	1430-2230	Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-1		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	0.072	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	0.812	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	0.867	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	0.111	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	0.0008	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
Solids	66.1	%			EPA 1311/160.3	06/21/07
pH, Initial check	12.56	SU			EPA 1311	06/21/07
pH, Second check	11.31	SU			EPA 1311	06/21/07
pH, Final Leachate	7.72	SU			EPA 1311	06/22/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

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July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.13.07/2		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	08/20/07
Date Comp	June 12-15, 2007	Time Sampled	1430-2215	Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-2		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	01/00/00
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	0.096	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	0.801	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
Solids	73.2	%			EPA 1311/160.3	06/21/07
pH, Initial check	12.60	SU			EPA 1311	06/21/07
pH, Second check	11.23	SU			EPA 1311	06/21/07
pH, Final Leachate	7.81	SU			EPA 1311	06/22/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07

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FINAL REPORT OF ANALYSES  
Element One, Inc. Project Number e9295

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July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #	Sample ID	MidCl/CA/TCLP/06.14.07/1				
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07	
Date Comp	June 12-15, 2007	Time Sampled	0600-1345	Time Received	1300	
Delivered by	UPS	Sampler		Received by	PDS	
Page 1 of 1		E1 Sample #	9295-3			
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1		
Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	0.141	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	1.06	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
Solids	66.0	%			EPA 1311/160.3	06/21/07
pH, Initial check	12.64	SU			EPA 1311	06/21/07
pH, Second check	11.60	SU			EPA 1311	06/21/07
pH, Final Leachate	8.67	SU			EPA 1311	06/22/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07
Chromium, Spike Recovery	96	mg/L	5		EPA 1311/6020	06/28/07
Arsenic, Spike Recovery	113	mg/L	5		EPA 1311/6020	06/28/07
Selenium, Spike Recovery	77	mg/L	5		EPA 1311/6020	06/28/07
Silver, Spike Recovery	93	mg/L	5		EPA 1311/6020	06/28/07
Cadmium, Spike Recovery	102	mg/L	5		EPA 1311/6020	06/28/07
Barium, Spike Recovery	86	mg/L	5		EPA 1311/6020	06/28/07
Lead, Spike Recovery	82	mg/L	5		EPA 1311/6020	06/28/07
Mercury, Spike Recovery	83	mg/L	2		EPA 1311/7470A	06/30/07

Ken Smith, Laboratory Director

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

Todd Wheeler  
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Reserve Road Gate 20  
Hartford, CT 06114

July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.14.07/2		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled	1400-2200	Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-4		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	0.164	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	1.03	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
Solids	65.4	%			EPA 1311/160.3	06/21/07
pH, Initial check	12.58	SU			EPA 1311	06/21/07
pH, Second check	11.71	SU			EPA 1311	06/21/07
pH, Final Leachate	8.72	SU			EPA 1311	06/22/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07

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FINAL REPORT OF ANALYSES  
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July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	MidC1/CA/TCLP/06.15.07/1		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled	0700-1500	Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-5		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	0.084	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	0.997	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
Solids	65.4%	%			EPA 1311/160.3	06/21/07
pH, Initial check	12.52	SU			EPA 1311	06/21/07
pH, Second check	11.64	SU			EPA 1311	06/21/07
pH, Final Leachate	9.12	SU			EPA 1311	06/22/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07

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Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	June 12-15, 2007		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled		Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-Blank #1		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Selenium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Barium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	06/28/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	06/30/07
pH, Extraction Fluid #2	2.89	SU			EPA 1311	06/21/07
Chromium, Spike Recovery	102	%	5		EPA 1311/6020	06/28/07
Arsenic, Spike Recovery	113	%	5		EPA 1311/6020	06/28/07
Selenium, Spike Recovery	111	%	5		EPA 1311/6020	06/28/07
Silver, Spike Recovery	101	%	5		EPA 1311/6020	06/28/07
Cadmium, Spike Recovery	100	%	5		EPA 1311/6020	06/28/07
Barium, Spike Recovery	100	%	5		EPA 1311/6020	06/28/07
Lead, Spike Recovery	102	%	5		EPA 1311/6020	06/28/07
Mercury, Spike Recovery	87	%	2		EPA 1311/7470A	06/30/07

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FINAL REPORT OF ANALYSES  
Element One, Inc. Project Number e9295

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July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	June 12-15, 2007 1-5		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled		Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-1-5		

Sample ID	06/12/07-2	06/13/07-2	06/14/07-1	06/14/07-2	06/15/07-1
Total Sample Weight, Kg	0.45	0.80	0.55	0.95	0.80
Non-crushable sample > 2", Kg	0.00	0.00	0.00	0.00	0.00
Sample < 3/8", Kg	0.45	0.50	0.45	0.65	0.45
Sample > 3/8", Kg	0.00	0.30	0.10	0.20	0.25
> 3/8" non-crushable sample, Kg	0.00	0.00	0.00	0.00	0.00
> 3/8" crushable sample, Kg	0.00	0.30	0.10	0.20	0.25

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**FINAL REPORT OF ANALYSES -% MOISTURE**  
Element One, Inc. Project Number e9295

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July 02, 2007  
Covanta Mid-Conn  
Client Project Number June 12-15, 2007  
PO Number

Sample #		Sample ID	June 12-15, 2007 1-5		
Sample Matrix	Ash	Sample Type	Comp	Date Received	06/20/07
Date Comp	June 12-15, 2007	Time Sampled		Time Received	1300
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-1-5		
Extraction Begun	1400 06/21/07	Extraction Ended	0800 06/22/07	Blank Lot #1	

Sample ID	9295-1	9295-2	9295-3	9295-4	9295-5
% Moisture	33.9%	26.8%	27.5%	34.0%	34.6%

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14 Day Characterization Study - SUMMARY OF TCLP ANALYSES  
Element One, Inc. Project Number e9295

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July 09, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 18-19, 2007  
PO Number

Sample #	Sample Matrix	Sample ID	Sample Type	June 18-19, 2007 6-9	Date Received	06/22/07
Date Comp	June 18-19, 2007	Time Sampled	Sampler	Comp	Time Received	0950
Delivered by	UPS	E1 Sample #	9295-6-9	Received by	DBW	
Page 1 of 1		Extraction Begun	1500 06/24/07	Extraction Ended	0800 06/25/07	Blank Lot #1
Sample ID		9295-6	9295-7	9295-8	9295-9	
Chromium, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Arsenic, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Selenium, digested mg/L	0.111	0.128	0.111	0.199		
Silver, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Cadmium, digested mg/L	1.42	< 0.05	0.251	< 0.05	< 0.05	
Barium, digested mg/L	2.09	0.853	0.980	1.19		
Lead, digested mg/L	< 0.05	< 0.05	0.054	< 0.05	< 0.05	
Mercury, digested mg/L	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	
Solids	65.2%	66.4%	66.1%	64.3%		
pH, Initial check	11.94	12.15	12.21	12.28		
pH, Second check	8.40	11.21	11.32	11.57		
pH, Final Leachate	6.85	8.54	6.31	8.81		
pH, Extraction Fluid #2	2.90	2.90	2.90	2.90		
Chromium, Spike Recovery	89%			93%		
Arsenic, Spike Recovery	111%			112%		
Selenium, Spike Recovery	100%			98%		
Silver, Spike Recovery	89%			82%		
Cadmium, Spike Recovery	83%			94%		
Barium, Spike Recovery	98%			89%		
Lead, Spike Recovery	83%			86%		
Mercury, Spike Recovery	77%			75%		

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FINAL REPORT OF ANALYSES  
Element One, Inc. Project Number e9295

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July 09, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 18-19, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.18.07/1		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	08/22/07
Date Comp	June 18-19, 2007	Time Sampled		Time Received	0950
Delivered by	UPS	Sampler		Received by	DBW
Page 1 of 1		E1 Sample #	9295-6		
Extraction Begun	1500 06/24/07	Extraction Ended	0800 06/25/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.111	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	1.423	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	2.091	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	07/03/07
Solids	65.2	%	0	0	EPA 1311/160.3	06/22/07
pH, Initial check	11.94	SU			EPA 1311	06/24/07
pH, Second check	8.40	SU			EPA 1311	06/24/07
pH, Final Leachate	6.85	SU			EPA 1311	06/25/07
pH, Extraction Fluid #2	2.90	SU			EPA 1311	06/24/07
Chromium, Spike Recovery	89	%	5		EPA 1311/6020	07/05/07
Arsenic, Spike Recovery	111	%	5		EPA 1311/6020	07/05/07
Selenium, Spike Recovery	100	%	5		EPA 1311/6020	07/05/07
Silver, Spike Recovery	89	%	5		EPA 1311/6020	07/05/07
Cadmium, Spike Recovery	83	%	5		EPA 1311/6020	07/05/07
Barium, Spike Recovery	98	%	5		EPA 1311/6020	07/05/07
Lead, Spike Recovery	83	%	5		EPA 1311/6020	07/05/07
Mercury, Spike Recovery	77	%	2		EPA 1311/7470A	07/03/07

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

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July 09, 2007  
Covanta Mid-Conn  
Client Project Number June 18-19, 2007  
PO Number

Sample #		Sample ID	MidCt/CA/TCLP/06.18.07/2		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/22/07
Date Comp	June 18-19, 2007	Time Sampled		Time Received	0950
Delivered by	UPS	Sampler		Received by	DBW
Page 1 of 1		E1 Sample #	9295-7		
Extraction Begun	1500 06/24/07	Extraction Ended	0800 06/25/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	01/00/00
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.128	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	0.853	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	07/03/07
Solids	66.4	%			EPA 1311/160.3	06/22/07
pH, Initial check	12.15	SU			EPA 1311	06/24/07
pH, Second check	11.21	SU			EPA 1311	06/24/07
pH, Final Leachate	8.54	SU			EPA 1311	06/25/07
pH, Extraction Fluid #2	2.90	SU			EPA 1311	06/24/07

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Client Project Number June 18-19, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.19.07/1		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	08/22/07
Date Comp	June 18-19, 2007	Time Sampled		Time Received	0950
Delivered by	UPS	Sampler		Received by	DBW
Page 1 of 1		E1 Sample #	9295-8		
Extraction Begun	1500 06/24/07	Extraction Ended	0800 06/25/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.111	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	0.251	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	0.96	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	0.054	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	07/03/07
Solids	66.1	%			EPA 1311/160.3	06/22/07
pH, Initial check	12.21	SU			EPA 1311	06/24/07
pH, Second check	11.32	SU			EPA 1311	06/24/07
pH, Final Leachate	6.31	SU			EPA 1311	06/25/07
pH, Extraction Fluid #2	2.90	SU			EPA 1311	06/24/07

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Client Project Number June 18-19, 2007  
PO Number

Sample #	Sample ID	MidCl/CA/TCLP/06.19.07/2				
Sample Matrix	Sample Type	Comp	Date Received	06/22/07		
Date Comp	Time Sampled		Time Received	0950		
Delivered by	Sampler		Received by	DBW		
Page 1 of 1	E1 Sample #	9295-9				
Extraction Begun	Extraction Ended	0800 06/25/07	Blank Lot #1			
Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.199	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	1.19	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.0004	mg/L	2	0.0002	EPA 1311/7470A	07/03/07
Solids	64.3	%			EPA 1311/160.3	06/22/07
pH, Initial check	12.28	SU			EPA 1311	06/24/07
pH, Second check	11.57	SU			EPA 1311	06/24/07
pH, Final Leachate	8.81	SU			EPA 1311	06/25/07
pH, Extraction Fluid #2	2.90	SU			EPA 1311	06/24/07
Chromium, Spike Recovery	93	%	5		EPA 1311/6020	07/05/07
Arsenic, Spike Recovery	112	%	5		EPA 1311/6020	07/05/07
Selenium, Spike Recovery	98	%	5		EPA 1311/6020	07/05/07
Silver, Spike Recovery	82	%	5		EPA 1311/6020	07/05/07
Cadmium, Spike Recovery	94	%	5		EPA 1311/6020	07/05/07
Barium, Spike Recovery	89	%	5		EPA 1311/6020	07/05/07
Lead, Spike Recovery	86	%	5		EPA 1311/6020	07/05/07
Mercury, Spike Recovery	75	%	2		EPA 1311/7470A	07/03/07

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

Todd Wheeler  
Covanta Mid-Conn  
Reserve Road Gate 20  
Hartford, CT 06114

July 09, 2007  
Covanta Mid-Conn  
Client Project Number June 18-19, 2007  
PO Number

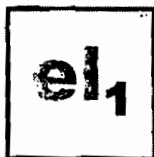
Sample #		Sample ID	June 18-19, 2007 6-9		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/22/07
Date Comp	June 18-19, 2007	Time Sampled		Time Received	0950
Delivered by	UPS	Sampler		Received by	DBW
Page 1 of 1		E1 Sample #	9295-6-9		

Sample ID	06/18/07-1	06/18/07-2	06/19/07-1	06/19/07-2
Total Sample Weight, Kg	1.05	0.95	1.05	1.05
Non-crushable sample > 2", Kg	0.00	0.00	0.00	0.00
Sample < 3/8", Kg	0.60	0.75	0.60	0.90
Sample > 3/8", Kg	0.30	0.15	0.35	0.15
> 3/8" non-crushable sample, Kg	0.00	0.00	0.00	0.00
> 3/8" crushable sample, Kg	1.05	0.95	1.05	1.05

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FINAL REPORT OF ANALYSES -% MOISTURE  
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July 09, 2007  
Covanta Mid-Conn  
Client Project Number June 18-19, 2007  
PO Number

Sample #		Sample ID	June 18-19, 2007 6-9		
Sample Matrix	Ash	Sample Type	Comp	Date Received	06/22/07
Date Comp	June 18-19, 2007	Time Sampled		Time Received	0950
Delivered by	UPS	Sampler		Received by	DBW
Page 1 of 1		E1 Sample #	9295-8-9		
Extraction Begun	1500 06/24/07	Extraction Ended	0800 06/25/07	Blank Lot #1	

Sample ID	9295-6	9295-7	9295-8	9295-9
% Moisture	34.8%	33.6%	33.9%	35.7%

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14 Day Characterization Study - SUMMARY OF TCLP ANALYSES  
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July 16, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	June 20-22, 2007 10-14		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-10-14		
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1	

Sample ID	9295-10	9295-11	9295-12	9295-13	9295-14
Chromium, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Arsenic, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium, digested mg/L	0.095	0.117	0.165	0.140	0.150
Silver, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium, digested mg/L	0.932	1.31	1.37	1.41	0.998
Lead, digested mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mercury, digested mg/L	< 0.008	< 0.008	0.010	< 0.008	< 0.008
Solids	70.0%	72.9%	71.3%	70.3%	75.2%
pH, Initial check	12.15	12.24	12.23	12.35	12.33
pH, Second check	10.85	11.09	11.26	11.65	11.21
pH, Final Leachate	8.69	9.43	8.88	9.51	9.15
pH, Extraction Fluid #2	2.88	2.88	2.88	2.88	2.88

Chromium, Spike Recovery	94%
Arsenic, Spike Recovery	112%
Selenium, Spike Recovery	76%
Silver, Spike Recovery	76%
Cadmium, Spike Recovery	92%
Barium, Spike Recovery	84%
Lead, Spike Recovery	89%
Mercury, Spike Recovery	80%

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

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Reserve Road Gate 20  
Hartford, CT 06114

July 16, 2007  
Client Project Name Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.20.07/1		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-10		
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.095	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	0.932	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.008	mg/L	4	0.0002	EPA 1311/7470A	07/12/07
Solids	70.0	%	0	0	EPA 1311/160.3	06/28/07
pH, Initial check	12.15	SU			EPA 1311	06/27/07
pH, Second check	10.85	SU			EPA 1311	06/27/07
pH, Final Leachate	8.69	SU			EPA 1311	06/28/07
pH, Extraction Fluid #2	2.88	SU			EPA 1311	06/27/07

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Todd Wheeler  
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July 16, 2007  
Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	MidCV/CA/TCLP/06.20.07/2		
Sample Matrix	Lined Ash	Sample Type	Comp	Date Received	06/26/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-11		
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	01/00/00
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.117	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	1.31	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.008	mg/L	4	0.0002	EPA 1311/7470A	07/12/07
Solids	72.9	%			EPA 1311/160.3	06/28/07
pH, Initial check	12.24	SU			EPA 1311	06/27/07
pH, Second check	11.09	SU			EPA 1311	06/27/07
pH, Final Leachate	9.43	SU			EPA 1311	06/28/07
pH, Extraction Fluid #2	2.88	SU			EPA 1311	06/27/07

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July 16, 2007  
Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.21.07/1		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-12		
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1	

Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.165	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	1.37	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	0.0100	mg/L	4	0.0002	EPA 1311/7470A	07/12/07
Solids	71.3	%	0	0	EPA 1311/160.3	06/28/07

pH, Initial check	12.23	SU			EPA 1311	06/27/07
pH, Second check	11.26	SU			EPA 1311	06/27/07
pH, Final Leachate	8.88	SU			EPA 1311	06/28/07
pH, Extraction Fluid #2	2.88	SU			EPA 1311	06/27/07

Chromium, digested mg/L	94	mg/L	5		EPA 1311/6020	07/05/07
Arsenic, digested mg/L	112	mg/L	5		EPA 1311/6020	07/05/07
Selenium, digested mg/L	76	mg/L	5		EPA 1311/6020	07/05/07
Silver, digested mg/L	76	mg/L	5		EPA 1311/6020	07/05/07
Cadmium, digested mg/L	92	mg/L	5		EPA 1311/6020	07/05/07
Barium, digested mg/L	84	mg/L	5		EPA 1311/6020	07/05/07
Lead, digested mg/L	89	mg/L	5		EPA 1311/6020	07/05/07
Mercury, Spike Recovery	80	mg/L	4		EPA 1311/7470A	07/12/07

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**FINAL REPORT OF ANALYSES**  
Element One, Inc. Project Number e9295

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Covanta Mid-Conn  
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Hartford, CT 06114

July 16, 2007  
Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	MidCl/CA/TCLP/06.21.07/2			
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07	
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933	
Delivered by	UPS	Sampler		Received by	PDS	
Page 1 of 1		E1 Sample #	9295-13			
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1		
Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.140	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	1.41	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.008	mg/L	4	0.0002	EPA 1311/7470A	07/12/07
Solids	70.3	%			EPA 1311/160.3	06/28/07
pH, Initial check	12.35	SU			EPA 1311	06/27/07
pH, Second check	11.65	SU			EPA 1311	06/27/07
pH, Final Leachate	9.51	SU			EPA 1311	06/28/07
pH, Extraction Fluid #2	2.88	SU			EPA 1311	06/27/07

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Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	Mid/CA/TCLP/06.22.07/1			
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07	
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933	
Delivered by	UPS	Sampler		Received by	PDS	
Page 1 of 1		E1 Sample #	9295-14			
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1		
Parameter	Result	Unit	Dilution	DL	Method	Date
Chromium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Arsenic, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Selenium, digested mg/L	0.150	mg/L	5	0.01	EPA 1311/6020	07/05/07
Silver, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Cadmium, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Barium, digested mg/L	0.998	mg/L	5	0.01	EPA 1311/6020	07/05/07
Lead, digested mg/L	< 0.05	mg/L	5	0.01	EPA 1311/6020	07/05/07
Mercury, digested mg/L	< 0.008	mg/L	4	0.0002	EPA 1311/7470A	07/12/07
Solids	75.2	%			EPA 1311/160.3	06/28/07
pH, Initial check	12.33	SU			EPA 1311	06/27/07
pH, Second check	11.21	SU			EPA 1311	06/27/07
pH, Final Leachate	9.15	SU			EPA 1311	06/28/07
pH, Extraction Fluid #2	2.88	SU			EPA 1311	06/27/07

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Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	June 20-22, 2007 10-14		
Sample Matrix	Limed Ash	Sample Type	Comp	Date Received	06/26/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-10-14		

Sample ID	06/20/07-1	06/20/07-2	06/21/07-1	06/21/07-2	06/22/07-1
Total Sample Weight, Kg	1.00	1.15	0.95	1.00	0.95
Non-crushable sample > 2", Kg	0.00	0.00	0.00	0.00	0.00
Sample < 3/8", Kg	0.95	0.95	0.95	1.00	0.90
Sample > 3/8", Kg	0.00	0.20	0.00	0.00	0.00
> 3/8" non-crushable sample, Kg	0.00	0.00	0.00	0.00	0.00
> 3/8" crushable sample, Kg	0.00	0.20	0.00	0.00	0.00

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**FINAL REPORT OF ANALYSES -% MOISTURE**  
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Hartford, CT 06114

July 16, 2007  
Covanta Mid-Conn  
Client Project Number June 20-22, 2007  
PO Number

Sample #		Sample ID	June 20-22, 2007 10-14		
Sample Matrix	Ash	Sample Type	Comp	Date Received	06/28/07
Date Comp	June 20-22, 2007	Time Sampled		Time Received	0933
Delivered by	UPS	Sampler		Received by	PDS
Page 1 of 1		E1 Sample #	9295-10-14		
Extraction Begun	1645 06/27/07	Extraction Ended	1045 06/28/07	Blank Lot #1	

Sample ID	<u>9295-10</u>	<u>9295-11</u>	<u>9295-12</u>	<u>9295-13</u>	<u>9295-14</u>
% Moisture	30.0%	27.1%	28.7%	29.7%	24.8%

Ken Smith, Laboratory Director

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**ASH CHARACTERIZATION REPORT  
WALLINGFORD RESOURCE RECOVERY FACILITY**

COVANTA ENERGY GROUP, INC.  
ENVIRONMENTAL ENGINEERING DEPARTMENT

ENVIRONMENTAL TEST REPORT  
FOR  
COVANTA WALLINGFORD ASSOCIATES, INC.  
**RECEIVED**

OEG REPORT NO.: 3219  
REPORT DATE: November 12, 2007  
PREPARED FOR: Connecticut Resource Recovery Authority  
PURPOSE: Characterization of Ash Residue  
SAMPLE PERIOD: September 27 through October 7, 2007  
ASSOCIATED REPORTS: EPA's Guidance Document  
PREPARED BY: Covanta Energy Group, Inc.  
Department 14 - CEM/Emission Testing

**CRRA  
ENVIRONMENTAL**



**ASH RESIDUE CHARACTERIZATION REPORT  
FOR  
COVANTA WALLINGFORD ASSOCIATES, INC**

**TABLE OF CONTENTS**

<b><u>SECTION</u></b>	<b><u>SUBJECT</u></b>
1	INTRODUCTION
2	FIELD ASH SAMPLING PROCEDURES
3	LABORATORY INFORMATION
4	ASH SUBSAMPLE PREPARATION
5	ANALYTICAL PROCEDURES
6	DATA ANALYSIS AND CONCLUSION

**TABLES**

1	Field Ash Sample Schedule and Bulk Characteristics
2	Analytical Test Procedures
3	As-Received Results and Statistics
4	Comparison of SW-846 Statistical Results and Regulatory Thresholds for Metal Analytes

**APPENDICES**

A	Laboratory Analytical and QA/QC Results and Bulk Sample Characteristics
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## 1.0 INTRODUCTION

An ash residue characterization program (Program) was implemented at the Wallingford Resource Recovery Facility (Facility) located in Wallingford, Connecticut. The Program was designed to incorporate the sampling and analytical procedures in EPA's May 24, 1994 document "Sampling and Analysis of Municipal Refuse Incinerator Ash" <sup>(1)</sup> and its supporting document "Test Methods for Evaluating Solid Waste (SW-846)." <sup>(2)</sup> The Program is consistent with the EPA's Final Guidance on ash sampling. <sup>(3)</sup> Combined ash was sampled at the end of the drag conveyors and before the roll-off container. This location has been determined to be representative of the point of generation in that it represents the waste characteristics as it would be disposed of at a landfill. The location is also consistent with the January 25, 1995 EPA decision regarding the appropriate testing location for determining toxicity characteristics.

Ash sampling at the Facility was performed by representatives of the Facility between September 27 and October 7, 2007. Ten (10) 8-hour shifts are represented by this sample period with each shift being represented by a shift composite subsample. Subsamples from the shift composite subsamples were delivered to a laboratory for analysis in accordance with the U.S. EPA Toxicity Characteristic Leaching Procedure (TCLP), Method 1311, as described in 40 CFR 261, Appendix II.

## 2.0 FIELD ASH SAMPLING PROCEDURES

Field sampling occurred over the period between September 27 and October 7, 2007. Field sampling consisted of two phases: 1) acquisition of grab samples, and 2) generation of hourly composite sample and shift composite subsamples.

The grab samples occurred at a 10 to 15-minute frequency. Samples were obtained at the end of the drag conveyors and before the roll-off container. The grab sample was obtained by a full width swipe with a bucket as the ash fell from the end of the drag chain conveyor. The grab sample was then placed in a plastic bucket for the hourly composite. The location and method provided random and representative samples. A shift is represented by at least eight hourly composite samples.

Shift composite samples were created by mixing the hourly composite samples with a shovel on a plastic tarpaulin or by using a cement mixer. The composite material was

spread to create a square of equal depth and was subsequently divided into quarters. Two composite subsamples were created from the composite sample with each composite subsample including random shovel swipes from each quarter. One composite subsample was labeled and delivered to a laboratory with an accompanying chain-of-custody form, and one retained on site as a spare. Sample aliquots for laboratory analysis were prepared from the laboratory subsample as described in the next section.

Table 1 presents a summary of the field sample program scope, schedule and bulk characteristics. The laboratory data used to develop Table 1 is provided as Appendix A. The material listed as being noncrushable was subjected to a field test for determining if the material was crushable.

### 3.0 LABORATORY INFORMATION

#### 3.1 Metals

One shift composite subsample was delivered to Life Science Laboratories, Inc. (LSL), formerly O'Brien and Gere Laboratories, Inc. located in East Syracuse, New York for each of the 10 operating shifts. This laboratory provided the sample preparation procedures required to reduce the approximate 2 to 4 lb. subsamples to representative 100 gram aliquots as required by EPA Method 1311. This laboratory provided the bulk sample characteristics in Table 1, and the analytical scope of services required by EPA Method 1311.

### 4.0 ASH SUBSAMPLE PREPARATION

One composite subsample from each shift was prepared in accordance with the following steps:

1. The entire composite subsample was passed over a two-inch screen. Material passing the 2-inch screen was set aside. Material larger than two inches was struck to see if it could be crushed. If the material did not break, it was weighed and discarded. If it did break and could pass through the two-inch screen, it was recombined with the material naturally less than two inches.

2. The material less than two inches was passed over a 3/8-inch screen. Material passing through the 3/8-inch screen was weighed, recorded and set aside. Material larger than 3/8 inch was weighed, recorded and then passed through a crusher device to reduce the material to be less than 3/8 inch. The mechanical crushing step was repeated two times to maximize the amount of 3/8-inch material that would be included in the aliquot destined for extraction. If the material was made to pass the 3/8-inch screen, it was combined with the material which went through the machine. If the material was not reduced to pass through a 3/8-inch screen after the machine and manual crushing step, it was recombined with the material larger than two inches that could not be crushed and then weighed.

The material naturally less than 3/8 inch and the material which was crushed to be less than 3/8 inch were kept separate from each other and separately weighed and recorded.

3. Aliquots for TCLP extraction were prepared by mixing proportional amounts of the material naturally less than 3/8 inch and material which had to be processed to be less than 3/8 inch. Each aliquot for TCLP extraction weighed a minimum of 100 grams.

## 5.0 ANALYTICAL PROCEDURES

The Toxicity Characteristic Leaching Procedure (TCLP) was performed in accordance with Method 1311 as detailed in the Environmental Protection Agency Manual SW-846 - Test Methods for Evaluating Solid Waste - Physical/Chemical Methods. Table 2 presents an overview of the analytical test procedures used in analyzing the TCLP extract from each aliquot. Quality control and assurance procedures used a sample spike, duplicate and blank on the set of ten (10) samples identified for metals analysis.

## 6.0 DATA ANALYSIS AND CONCLUSION

## 6.1 Overview

The laboratory analytical data presented as Appendix A have been evaluated in accordance with the procedures in SW-846, Chapter 9. The quality assurance and quality control results are also submitted as Appendix A.

The statistical procedures set forth in Section 9.1.1.2 and Table 9-1 of SW-846 are based on the set of sample concentrations being treated as a normal distribution.

## 6.2 Analytical Results

The laboratory analytical results are presented in Table 3 and Appendix A of this report. Laboratory results below the detection limit are included in all calculations at one-half of the detection limit in Table 3.

An evaluation of the analytical results indicates that the cadmium result for Sample ID Number WAL/TCLP/CA/09-27-07/1B is a statistical outlier based upon a relative comparison with other data and an evaluation by Chauvenet's Criterion as recommended by EPA.<sup>(4)</sup> This outlier could be addressed through analysis of other aliquots from the same shift composite subsample; however, the analysis in this report is limited to statistical reduction of the initial data including this outlier.

## 6.3 Statistical Results

Table 4 presents a comparison of the Regulatory Threshold for each metal analyte and the relevant SW-846 statistical value for determining whether a waste material exhibits a toxic characteristic. If the laboratory result was below the detection limit, a value equal to one half of the detection limit was used.

## 6.4 Conclusion

The analytical data presented in Appendix A was evaluated in complete compliance with the procedures set forth and required by SW-846. The statistical evaluation has determined that the waste does not exhibit the toxicity characteristic and that it should be managed as a nonhazardous solid waste.

## 7.0 REFERENCES

- (1) Environmental Protection Agency,  
"Sampling and Analysis of Municipal Refuse Incinerator Ash," May, 1994.
- (2) Environmental Protection Agency,  
"Manual SW-846 - Test Methods for Evaluating Solid Waste -  
Physical/Chemical Methods, March, 1992.
- (3) Environmental Protection Agency,  
"Guidance for the Sampling and Analysis of Municipal Waste  
Combustion Ash for the Toxicity Characteristic," June, 1995.
- (4) Environmental Protection Agency,  
"Introduction to Environmental Statistics."

<u>Table 1</u>						
<u>FIELD ASH SAMPLE SCHEDULE AND BULK CHARACTERISTICS</u>						
<u>Sample</u>	<u>Date</u>	<u>Shift</u>	<u>Composite Subsample Bulk Characteristics (lbs)</u>			
			<u>Greater than 2 Inches</u>	<u>Less than 2 Inches</u>	<u>Total</u>	<u>Moisture (as Wt.%)</u>
1	September 27, 2007	1	0.10	2.70	2.80	33.1
2	September 27, 2007	2	0.04	3.38	3.42	38.1
3	September 28, 2007	1	0.06	1.76	1.82	38.2
4	September 29, 2007	2	0.06	2.38	2.44	38.7
5	September 29, 2007	1	0.04	3.42	3.46	38.9
6	September 30, 2007	2	0.06	2.30	2.36	39.7
7	September 30, 2007	1	0.06	4.18	4.24	38.4
8	October 2, 2007	1	1.60	2.40	4.00	41.0
9	October 3, 2007	1	0.00	3.04	3.04	41.4
10	October 7, 2007	1	0.00	2.16	2.16	40.9

<u>Table 2</u>	
<u>ANALYTICAL TEST PROCEDURES</u>	
PARAMETER	ANALYTICAL METHOD (b)
1.0 TCLP (a)	
1.1 TCLP Metals	
Arsenic	3010 and 6010 (ICP)
Barium	3010 and 6010 (ICP)
Cadmium	3010 and 6010 (ICP)
Chromium	3010 and 6010 (ICP)
Lead	3010 and 6010 (ICP)
Mercury	7470 (CVAA)
Selenium	3010 and 6010 (ICP)
Silver	3010 and 6010 (ICP)
2.0 Moisture	2540-G
<p>(a) EPA Method 1311, Toxic Characterization Leaching Procedure.</p> <p>(b) ICP : Inductively Coupled Plasma Spectroscopy  CVAA : Cold Vapor Atomic Absorption</p>	



TABLE 3 LABORATORY RESULTS FOR THE WALLINGFORD RESOURCE RECOVERY FACILITY

3.1 SAMPLE SPECIFIC RESULTS

WAL/TCLP/CA/ 09-27-07/ 1B	<	0.250	<	1.100	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-27-07/ 2B	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-28-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-29-07/ 2A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-29-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-30-07/ 2A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 09-30-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 10-02-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 10-03-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250
WAL/TCLP/CA/ 10-07-07/ 1A	<	0.250	<	0.050	<	0.250	<	0.250	<	0.050	<	0.250	<	0.050	<	0.250

3.2 STATISTICAL RESULTS

NUMBER OF SAMPLES	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
DEGREES OF FREEDOM	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SAMPLE MEAN (XBAR)	0.25	0.89	0.03	0.155	0.110	0.250	0.25	0.00020	0.25	0.050	0.050	0.050	0.050	0.050	0.250	0.250
SAMPLE VARIANCE (S^2)	0.0E+00	0.03	0.18	0.110	0.332	0.0E+00	0.00	8.2E-40	0.00	5.3E-35	5.3E-35	5.3E-35	5.3E-35	5.3E-35	0.0E+00	0.0E+00
STANDARD DEVIATION (S)	0.0E+00	0.18	0.06	0.332	0.105	0.00E+00	0.00	2.9E-20	0.00	7.3E-18	7.3E-18	7.3E-18	7.3E-18	7.3E-18	0.0E+00	0.0E+00
STD ERROR (S XBAR)	0.0E+00	0.06	0.06	0.105	0.105	0.00E+00	0.00	9.0E-21	0.00	2.3E-18	2.3E-18	2.3E-18	2.3E-18	2.3E-18	0.0E+00	0.0E+00
80% CI Upper Limit (actual)	0.250	0.96	0.06	0.300	0.300	0.250	0.250	0.00020	0.250	0.050	0.050	0.050	0.050	0.050	0.250	0.250
80% CI Upper Limit (exp. of lognormal)	0.250	1.10	0.58	1.100	1.100	0.250	0.250	0.00020	0.250	0.050	0.050	0.050	0.050	0.050	0.250	0.250
MAXIMUM	0.250	1.10	0.58	1.100	1.100	0.250	0.250	0.00020	0.250	0.050	0.050	0.050	0.050	0.050	0.250	0.250
MINIMUM	0.250	0.58	0.06	0.300	0.300	0.250	0.250	0.00020	0.250	0.050	0.050	0.050	0.050	0.050	0.250	0.250
3.3 REGULATORY THRESHOLD	5.0	100.0	100.0	1.0	1.0	5.0	5.0	0.2	5.0	1.0	1.0	1.0	1.0	1.0	5.0	5.0

(a) Less than symbol (<) indicates laboratory result below the detection limit. The value used in this table is one-half (1/2) of the detection limit provided by the laboratory.

**Table 4**

**COMPARISON OF SW-846 STATISTICAL RESULTS  
AND  
REGULATORY THRESHOLDS  
FOR METAL ANALYTES**

<b>Analyte</b>	<b>90% Upper Confidence Interval per SW-846 (b)</b>	<b>Regulatory Threshold (a)</b>
<b>Metals</b>		
<b>Arsenic</b>	<b>0.250</b>	<b>5.0</b>
<b>Barium</b>	<b>0.96</b>	<b>100.0</b>
<b>Cadmium</b>	<b>0.300</b>	<b>1.0</b>
<b>Chromium</b>	<b>0.250</b>	<b>5.0</b>
<b>Lead</b>	<b>0.250</b>	<b>5.0</b>
<b>Mercury</b>	<b>0.00020</b>	<b>0.2</b>
<b>Selenium</b>	<b>0.050</b>	<b>1.0</b>
<b>Silver</b>	<b>0.250</b>	<b>5.0</b>

(a) 40 CFR Part 261. All units are expressed as milligrams per liter (mg/L).

(b) 90% Upper Confidence Interval as a single-tailed distribution is equivalent to an 80% Upper Confidence Interval as a two-tailed distribution.

**APPENDIX A**

**Laboratory Analytical and QA/QC Results and  
Bulk Sample Characteristics**

**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
East Syracuse, NY 13057

(315) 437-0200

Monday, November 05, 2007

Mr. Daryll Fickling  
Covanta Energy Corporation  
40 Lane Road-CN2615  
Fairfield, NJ 07007-2615

TEL: (973) 882-7045

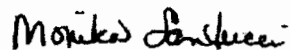
Project: WALLINGFORD  
RE: Analytical Results

Order No.: 0710055, 0710081

Dear Mr. Daryll Fickling:

Life Science Laboratories, Inc. received samples on 10/8/2007-10/11/2007 for the analyses presented in the following report.

Very truly yours,  
Life Science Laboratories, Inc.



Monika Santucci  
Project Manager


**Life Science Laboratories, Inc.**

 5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

StateCertNo: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-001A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-27-07/18
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/27/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> ICAP 61E	<b>Sample Size:</b> 10 mL
<b>ColumnID:</b>	<b>%Moisture:</b> 33.1
<b>Revision:</b> 10/19/07 14:56	<b>TestCode:</b> TCLPICP
<b>Col Type:</b>	<b>BatchNo:</b> 6353/R11518
	<b>FileID:</b> 1-SAMP-30730

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>				<b>SW6010B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/16/07 18:37
Barium	0.66		0.50	mg/L	1	10/16/07 18:37
Cadmium	1.1		0.10	mg/L	1	10/16/07 18:37
Chromium	ND		0.50	mg/L	1	10/16/07 18:37
Lead	ND		0.50	mg/L	1	10/16/07 18:37
Selenium	ND		0.10	mg/L	1	10/16/07 18:37
Silver	ND		0.50	mg/L	1	10/16/07 18:37

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 10/29/07 14:42

312027

Project Supervisor: Monica Santucci

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**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-001A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALC/TCLP9-27-07/1B
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/27/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> FIMS 100	<b>Prep Date:</b> 10/18/07 0:00
<b>Column ID:</b>	<b>Batch No:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>File ID:</b> 1-SAMP-
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				SW1311/7470A		(SW7470A)
Mercury	ND		0.00040	mg/L	1	10/18/07 11:33

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Fractional Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 10/29/07 14:42      312787      Project Supervisor: Monica Santucci      Page 2 of 21



**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-002A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALCANTCLP9-27-07/28
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/27/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> ICAP 61E	<b>Sample Size:</b> 10 mL
<b>ColumnID:</b>	<b>%Moisture:</b> 38.1
<b>Revision:</b> 10/19/07 14:56	<b>TestCode:</b> TCLPICP
<b>Col Type:</b>	<b>PrepDate:</b> 10/11/07 0:00
	<b>BatchNo:</b> 6353/RI1518
	<b>FileID:</b> 1-SAMP-30738

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW6010B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/16/07 18:13
Barium	0.78		0.50	mg/L	1	10/16/07 18:13
Cadmium	ND		0.10	mg/L	1	10/16/07 18:13
Chromium	ND		0.50	mg/L	1	10/16/07 18:13
Lead	ND		0.50	mg/L	1	10/16/07 18:13
Selenium	ND		0.10	mg/L	1	10/16/07 18:13
Silver	ND		0.50	mg/L	1	10/16/07 18:13

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding time for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-002A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALCA/TCLP/9-27-07/2B
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/27/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:53
<b>Inst. ID:</b> FIMS 100	<b>Prep Date:</b> 10/18/07 0:00
<b>Column ID:</b>	<b>Batch No:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>File ID:</b> 1-SAMP-
<b>Col Type:</b>	
<b>Sample Size:</b> 25 mL	
<b>%Moisture:</b> 38.1	
<b>Test Code:</b> TCLPHG	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				SW1311/7470A		(SW7470A)
Mercury	ND		0.00040	mg/L	1	10/18/07 11:40

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 10/29/07 14:42

312790

Project Supervisor: Monika Santucci

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**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-003A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-29-07/1A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/29/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> ICAP 61E	<b>Prep Date:</b> 10/11/07 0:00
<b>Column ID:</b> ICAP 61E	<b>Batch No:</b> 6353/R11518
<b>Revision:</b> 10/19/07 14:56	<b>File ID:</b> 1-SAMP-30739
<b>Col Type:</b>	
<b>Sample Size:</b> 10 mL	
<b>% Moisture:</b> 38.7	
<b>Test Code:</b> TCLPICP	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
Arsenic	ND		0.50	mg/L	1	10/16/07 18:17
Barium	0.01		0.50	mg/L	1	10/16/07 18:17
Cadmium	ND		0.10	mg/L	1	10/16/07 18:17
Chromium	ND		0.50	mg/L	1	10/16/07 18:17
Lead	ND		0.50	mg/L	1	10/16/07 18:17
Selenium	ND		0.10	mg/L	1	10/16/07 18:17
Silver	ND		0.50	mg/L	1	10/16/07 18:17

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conc. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Print Date: 10/29/07 14:42      312036      Project Supervisor: Monica Santucci      Page 8 of 21



**Life Science Laboratories, Inc.**

5888 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-8200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0719055-003A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP9-29-07/1A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/29/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> FIMS 100	<b>Sample Size:</b> 25 mL
<b>ColumnID:</b>	<b>%Moisture:</b> 38.7
<b>Revision:</b> 10/19/07 16:47	<b>TestCode:</b> TCLPHG
<b>Col Type:</b>	<b>BatchNo:</b> 6399/R11556
	<b>FileID:</b> 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				6W1311/7470A		(6W7470A)
Mercury	ND		0.00040	mg/L	1	10/19/07 11:42

**Qualifiers:**

- Value exceeds Maximum Contaminant Level
- B Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-004A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-29-30-07/2A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/29/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> ICAP 61E	<b>Sample Size:</b> 10 mL
<b>ColumnID:</b>	<b>%Moisture:</b> 38.9
<b>Revision:</b> 10/19/07 14:56	<b>TestCode:</b> TCLPICP
<b>Col Type:</b>	<b>BatchNo:</b> 6353/R11518
	<b>FileID:</b> 1-SAMP-30740

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
Arsenic	ND		0.50	mg/L	1	10/18/07 18:22
Barium	0.99		0.50	mg/L	1	10/18/07 18:22
Cadmium	ND		0.10	mg/L	1	10/18/07 18:22
Chromium	ND		0.50	mg/L	1	10/18/07 18:22
Lead	ND		0.50	mg/L	1	10/18/07 18:22
Selenium	ND		0.10	mg/L	1	10/18/07 18:22
Silver	ND		0.50	mg/L	1	10/18/07 18:22

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

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**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-004A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-29-30-07/2A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/29/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> FIMS 100	<b>Prep Date:</b> 10/18/07 0:00
<b>Column ID:</b>	<b>Batch No:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>File ID:</b> 1-SAMP-
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				5W13117470A		(5W7470A)
Mercury	ND		0.00040	ng/L	1	10/18/07 11:48

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

5800 Brittonfield Parkway, Suite 200  
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**Analytical Results**

StateCertNo: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-005A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALCA/TCLP/9-30-07/1A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/30/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> ICAP 61E	<b>PrepDate:</b> 10/11/07 0:00
<b>ColumnID:</b>	<b>BatchNo:</b> 6353/R11518
<b>Revision:</b> 10/19/07 14:56	<b>FileID:</b> 1-SAMP-30741
<b>Col Type:</b>	
<b>Sample Size:</b> 10 mL	
<b>%Moisture:</b> 39.7	
<b>TestCode:</b> TCLPICP	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>				<b>SW0010B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/16/07 19:28
Barium	1.1		0.50	mg/L	1	10/16/07 19:28
Cadmium	ND		0.10	mg/L	1	10/16/07 19:28
Chromium	ND		0.50	mg/L	1	10/16/07 19:28
Lead	ND		0.50	mg/L	1	10/16/07 19:28
Selenium	ND		0.10	mg/L	1	10/16/07 19:28
Silver	ND		0.50	mg/L	1	10/16/07 19:28

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding time for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**Analytical Results**

State Cert No: PE0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-005A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-30-07/1A
<b>W Order:</b> 0710055	<b>Collection Date:</b> 09/30/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> FIMS 100	<b>Prep Date:</b> 10/18/07 0:00
<b>Column ID:</b> FIMS 100	<b>Batch No:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>File ID:</b> 1-SAMP-
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				8W13117470A		(8W1478A)
Mercury	ND		0.00040	mg/L	1	10/19/07 11:50

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

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**Analytical Results**

State Cert No: PH0634

**CLIENT:** Covanta Energy Corporation  
**Project:** Wallingford  
**W Order:** 0710055  
**Matrix:** ASH  
**Inst. ID:** ICAP 61E  
**ColumnID:**  
**Revision:** 10/19/07 14:56  
**Col Type:**

**Sample Size:** 10 mL  
**%Moisture:** 38.4  
**TestCode:** TCLPICP

**Lab ID:** 0710055-006A  
**Client Sample ID:** WAL/CATCLP/9-30-07/2A  
**Collection Date:** 09/30/07 0:00  
**Date Received:** 10/08/07 11:55  
**PrepDate:** 10/11/07 0:00  
**BatchNo:** 6353/R11518  
**FileID:** 1-SAMP-30742

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW0010B</b>		<b>(SW0010A)</b>
Arsenic	ND		0.50	mg/L	1	10/10/07 19:31
Barium	1.1		0.50	mg/L	1	10/10/07 19:31
Cadmium	ND		0.10	mg/L	1	10/10/07 19:31
Chromium	ND		0.50	mg/L	1	10/10/07 19:31
Lead	ND		0.50	mg/L	1	10/10/07 19:31
Selenium	ND		0.10	mg/L	1	10/10/07 19:31
Silver	ND		0.50	mg/L	1	10/10/07 19:31

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- P Prim./Coef. column %D or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits



**Life Science Laboratories, Inc.**

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**Analytical Results**

State Cert No: PH0634

**CLIENT:** Covanta Energy Corporation  
**Project:** Wallingford  
**W Order:** 0710055  
**Matrix:** ASH  
**Inst. ID:** FIMS 100  
**ColumnID:**  
**Revision:** 10/19/07 16:47  
**Col Type:**

**Sample Size:** 25 mL  
**%Moisture:** 38.4  
**TestCode:** TCLPHG

**Lab ID:** 0710055-006A  
**Client Sample ID:** WAL/CA/TCLP/9-30-07/2A  
**Collection Date:** 09/30/07 0:00  
**Date Received:** 10/08/07 11:53  
**Prep Date:** 10/18/07 0:00  
**Batch No:** 6399/R11556  
**File ID:** 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY	ND		0.00040	mg/L	1	10/19/07 11:53

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding time for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

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**Analytical Results**

StateCartNo: FH0634

**CLIENT:** Covanta Energy Corporation  
**Project:** Wallingford  
**W Order:** 0710053  
**Matrix:** ASH  
**Inst. ID:** ICAP 61E  
**ColumnID:**  
**Revision:** 10/19/07 14:56  
**Col Type:**

**Sample Size:** 10 mL  
**%Moisture:** 41.0  
**TestCode:** TCLPICP

**Lab ID:** 0710055-007A  
**Client Sample ID:** WAL/CA/TCLP/10-2-07/1A  
**Collection Date:** 10/02/07 0:00  
**Date Received:** 10/08/07 11:55  
**PrepDate:** 10/11/07 0:00  
**BatchNo:** 6353/R11518  
**FileID:** 1-SAMP-30743

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW0010B</b>		<b>(SW0010A)</b>
Arsenic	ND		0.50	mg/L	1	10/16/07 18:35
Barium	0.06		0.50	mg/L	1	10/16/07 18:35
Cadmium	ND		0.10	mg/L	1	10/16/07 18:35
Chromium	ND		0.50	mg/L	1	10/16/07 18:35
Lead	ND		0.50	mg/L	1	10/16/07 18:35
Selenium	ND		0.10	mg/L	1	10/16/07 18:35
Silver	ND		0.50	mg/L	1	10/16/07 18:35

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below the PQL
- ND Not Detected at the Fractional Quantitation Limit (FQL)
- P Prim./Conf. column MD or RPD exceeds limit
- S Spike Recovery outside accepted recovery limits


**Life Science Laboratories, Inc.**

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East Syracuse, NY 13057

(315) 437-0200

**Analytical Results**

StateCardNo: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710055-007A
<b>Project:</b> Walingford	<b>Client Sample ID:</b> WAL/CA/TCLP/10-2-07/1A
<b>W Order:</b> 0710035	<b>Collection Date:</b> 10/02/07 0:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/08/07 11:55
<b>Inst. ID:</b> FIMS 100	<b>PrepDate:</b> 10/18/07 0:00
<b>ColumnID:</b>	<b>BatchNo:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>FileID:</b> 1-SAMP-
<b>TestCode:</b> TCLPHG	
<b>Sample Size:</b> 25 mL	
<b>%Moisture:</b> 41.0	
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				SW1311/7470A		(SW7470A)
Mercury	ND		0.00040	mg/L	1	10/18/07 11:55

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print.Chief. indicates %ND or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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Project Supervisor: Monika Santucci

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**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710081-001A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP9-28-29-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 09/29/07 6:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> ICAP 61E	<b>Prep Date:</b> 10/17/07 0:00
<b>Column ID:</b> ICAP 61E	<b>Batch No:</b> 6398/R11563
<b>Revision:</b> 10/19/07 16:36	<b>File ID:</b> 1-SAMP-31001
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW6010B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/19/07 13:59
Barium	1.0		0.50	mg/L	1	10/19/07 13:59
Cadmium	ND		0.10	mg/L	1	10/19/07 13:59
Chromium	ND		0.50	mg/L	1	10/19/07 13:59
Lead	ND		0.50	mg/L	1	10/19/07 13:59
Selenium	ND		0.10	mg/L	1	10/19/07 13:59
Silver	ND		0.50	mg/L	1	10/19/07 13:59

**Qualifiers:**

E Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
H Value exceeds the instrument calibration range	H Holding time for preparation or analysis exceeded
J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
F Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



**Life Science Laboratories, Inc.**

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**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710081-001A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WAL/CA/TCLP/9-28-29-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 09/29/07 6:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> FIMS 100	<b>Prep Date:</b> 10/18/07 0:00
<b>ColumnID:</b>	<b>Batch No:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>FileID:</b> 1-SAMP-
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				6W1311/7470A		(6W7470A)
Mercury	ND		0.00040	mg/L	1	10/19/07 11:58

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	S Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



**Life Science Laboratories, Inc.**

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**Analytical Results**

StateCertNo: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710081-002A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALL/CA/TCLP/10-03-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 10/03/07 16:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> ICAP 61B	<b>PrepDate:</b> 10/17/07 0:00
<b>ColumnID:</b>	<b>BatchNo:</b> 6398/R11563
<b>Revision:</b> 10/19/07 16:56	<b>FileID:</b> 1-SAMP-31002
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW0010B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/19/07 14:02
Barium	0.81		0.50	mg/L	1	10/19/07 14:02
Cadmium	ND		0.10	mg/L	1	10/19/07 14:02
Chromium	ND		0.50	mg/L	1	10/19/07 14:02
Lead	ND		0.50	mg/L	1	10/19/07 14:02
Selenium	ND		0.10	mg/L	1	10/19/07 14:02
Silver	ND		0.50	mg/L	1	10/19/07 14:02

**Qualifiers:**

• Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
F Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Analytical Results**

StateCertNo: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710081-002A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALLICA/TCLP/10-03-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 10/03/07 16:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> FIMS 100	<b>PrepDate:</b> 10/18/07 0:00
<b>ColumnID:</b> FIMS 100	<b>BatchNo:</b> 6399/R11556
<b>Revision:</b> 10/19/07 16:47	<b>FileID:</b> 1-SAMP-
<b>TestCode:</b> TCLPHG	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				SW1311/7470A		(SW7470A)
Mercury	ND		0.00040	mg/L	1	10/19/07 12:01

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Print/Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Analytical Results**

State Cert No: PH0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710081-003A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALLCA/TCLP/10-07-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 10/07/07 16:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> ICAP 61E	<b>Prep Date:</b> 10/17/07 0:00
<b>Column ID:</b> ICAP 61E	<b>Batch No:</b> 6398/R11563
<b>Revision:</b> 10/19/07 16:56	<b>File ID:</b> 1-SAMP-31003
<b>Col Type:</b>	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
<b>TCLP METALS BY ICP</b>						
				<b>SW8810B</b>		<b>(SW3010A)</b>
Arsenic	ND		0.50	mg/L	1	10/18/07 14:08
Barium	0.58		0.50	mg/L	1	10/18/07 14:08
Cadmium	ND		0.10	mg/L	1	10/18/07 14:08
Chromium	ND		0.50	mg/L	1	10/18/07 14:08
Lead	ND		0.50	mg/L	1	10/18/07 14:08
Selenium	ND		0.10	mg/L	1	10/18/07 14:08
Silver	ND		0.50	mg/L	1	10/18/07 14:08

<b>Qualifiers:</b>	• Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

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**Life Science Laboratories, Inc.**

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**Analytical Results**

StateCertNo: PE0634

<b>CLIENT:</b> Covanta Energy Corporation	<b>Lab ID:</b> 0710681-003A
<b>Project:</b> Wallingford	<b>Client Sample ID:</b> WALLICA/TCLP/10-07-07/1A
<b>W Order:</b> 0710081	<b>Collection Date:</b> 10/07/07 16:00
<b>Matrix:</b> ASH	<b>Date Received:</b> 10/11/07 10:25
<b>Inst. ID:</b> FIMS 100	<b>Sample Size:</b> 25 mL
<b>ColumnID:</b>	<b>%Moisture:</b> 40.9
<b>Revision:</b> 10/19/07 16:47	<b>TestCode:</b> TCLPHG
<b>Col Type:</b>	<b>BatchNo:</b> 6399/R11536
	<b>FileID:</b> 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TCLP MERCURY				SW1311/7470A		(SW7470A)
Mercury	ND		0.00040	mg/L	1	10/19/07 12:03

**Qualifiers:**

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Date: 24-Oct-07

**Life Science Laboratories, Inc.**

CLIENT: Covanta Energy Corporation  
 Lab Order: 0710055  
 Project: Wallingford

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
WALCAVTCPLP9-27-071B	0710055-001A	w%	9/27/2007	10/8/2007	10/11/2007	R11441	33.1
WALCAVTCPLP9-27-072B	0710055-002A	w%	9/27/2007	10/8/2007	10/11/2007	R11441	38.1
WALCAVTCPLP9-29-071A	0710055-003A	w%	9/29/2007	10/8/2007	10/11/2007	R11441	38.7
WALCAVTCPLP9-29-30-072A	0710055-004A	w%	9/29/2007	10/8/2007	10/11/2007	R11441	38.9
WALCAVTCPLP9-30-071A	0710055-005A	w%	9/30/2007	10/8/2007	10/11/2007	R11441	39.7
WALCAVTCPLP9-30-072A	0710055-006A	w%	9/30/2007	10/8/2007	10/11/2007	R11441	38.4
WALCAVTCPLP10-2-071A	0710055-007A	w%	10/2/2007	10/8/2007	10/11/2007	R11441	41.0

**Life Science Laboratories, Inc.**

Date: 24-Oct-07

CLIENT: Covanta Energy Corporation  
 Lab Order: 0710081  
 Project: Wallingford

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
WALLCANTCLP10-28-071A	0710081-001A	w% w% w%	9/29/2007	10/11/2007	10/17/2007	R11530	38.2
WALLCANTCLP10-08-071A	0710081-002A	w% w%	10/2/2007	10/11/2007	10/17/2007	R11530	41.4
WALLCANTCLP10-07-071A	0710081-003A	w% w%	10/7/2007	10/11/2007	10/17/2007	R11530	40.9

**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: 0710055-001AMS	Sample Type: MS	Test Code: TCLP/PCP	Units: mg/L	Prep Date: 10/11/07	Run No: 11018
Client ID: WALLINGFORD-27	Batch ID: 0303	Method: SW6010B	(SW6010A)	Analysis Date: 10/16/07	Sample: 312001
Instrument:	ColumnID:				

Analyte	QC Sample Result	POL	SPK Added	Percent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.50	2	0	68	65	115				
Berium	2.47	0.50	2	0.046	91	65	115				
Cadmium	1.40	0.10	0.4	1.12	68	65	115				S
Chromium	1.61	0.50	2	0	90	65	115				
Lead	2.12	0.50	2	0.314	90	65	115				
Selenium	0.308	0.10	0.4	0.011	94	65	115				
Silver	0.176	0.50	0.2	0	98	53	104				

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDCL or RL  
 E Value exceeds the instrument calibration range  
 R RPD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spike Recovery outside accepted recovery limits

Date: 29-Oct-07

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**Life Science Laboratories, Inc.**  
 5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Conesta Energy Corporation

Sample ID: 0710055-001A/MSD    Sample Type: MSD    Test Code: TCLP/PCP    Units: mg/L  
 Client ID: WAL/CA/TCLP/9-27    Batch ID: 6303    Method: SW6010B    Prep Date: 10/15/07    Number: 11018  
 Instrument:    Column ID:    Analysis Date: 10/16/07    Sample: S12032

Analyte	QC Sample Result	PQL	SFK Added	Percent Sample Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.28	0.50	2	0	93	85	115	1.85	1	20	
Barium	2.52	0.50	2	0.648	94	85	115	2.47	2	20	
Cadmium	1.43	0.10	0.4	1.12	76	85	115	1.4	2	20	8
Chromium	1.83	0.50	2	0	91	85	115	1.81	1	20	
Lead	2.16	0.50	2	0.314	92	85	115	2.12	2	20	
Selenium	0.391	0.10	0.4	0.011	95	85	115	0.388	1	20	
Silver	0.180	0.50	0.2	0	90	83	104	0.176	3	27	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Provisional Quantitation Limit (PQL)  
 U Not Detected at the MDC or RL  
 E Value exceeds the Instrument calibration range  
 R RPD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spike Recovery outside accepted recovery limits

Date: 29-Oct-07

**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Methods: SW1311/7A70A  
 Work Order: 0710055  
 Proj. #: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: 671066-001A165	Sample Type: MS	Test Code: TOLPHG	Units: mg/L	Prep Date: 10/18/07	Run No: 11656
Client ID: WALLCATTCLP79-37	Batch ID: 6388	Method: SW1311/7A70A	Parent Sample Result	Analyte Date: 10/18/07	Sample No: 312768
Instrument:	Column ID:	QC Sample Result	0.00204	%REC	63
Analyte	PQL	SPK Added	0.002	Low Limit	51
Mercury	0.00040	Parent Sample Result	0.000366	High Limit	121
				%RPD	RPDLimit

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDL or RL

Date: 29-Oct-07

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**Life Science Laboratories, Inc.**

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**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: 0710055-001A	Sample Type: PDG	Test Code: TCLP/PCP	Unit: mg/L	Prep Date: 10/11/07	Run No: 11018
Client ID: WALJCATCLP/PCP-27	Batch ID: 0303	Method: SW6010B	(04/29/04)	Analysis Date: 10/10/07	Seq No: 312004
Instrument:	Column ID:				

Analyte	OC Sample Result	PQL	SPK Added	Percent Sample Result	%REC	Low Limit	High Limit	RFD Ref Val	%RPD	RPD Link	Qual
Arsenic	4.90	0.50	5	0	98	75	125				
Barium	5.36	0.50	5	0.646	94	75	125				
Cadmium	2.00	0.10	1	1.12	99	75	125				
Chromium	4.56	0.50	5	0	91	75	125				
Lead	4.99	0.50	5	0.314	93	75	125				
Selenium	0.917	0.10	1	0.011	94	75	125				
Silver	0.085	0.50	0.5	0	97	75	125				

Qualifiers: B Analyte detected in the unacidified Method Blank  
 E Value exceeds the instrument calibration range  
 J Analyte detected below the PQL  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 R RFD exceeds accepted precision limit  
 S Spits Recovery outside accepted recovery limits  
 U Not Detected at the MDCL or RL

Date: 29-Oct-07

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**Life Science Laboratories, Inc.**  
 5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: LCS-6313    TestCode: TCLP/PCP    Units: mg/L    Prep Date: 10/1/07    RunNo: 11618  
 Client ID: ZZZZ    Batch ID: 6300    Method: SW6010B (SW2010A)    Analysis Date: 10/16/07    SeqNo: 312025  
 Instrument:    ColumnID:

Analyte	QC Sample Result	PQL	SPK Added	Percent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.207	0.10	0.2	0	104	85	115				
Barium	0.207	0.10	0.2	0	104	85	115				
Cadmium	0.197	0.020	0.2	0	99	85	115				
Chromium	0.202	0.10	0.2	0	101	85	115				
Lead	0.209	0.10	0.2	0	103	85	115				
Selenium	0.199	0.020	0.2	0	100	85	115				
Silver	0.0512	0.10	0.05	0	102	85	115				

Qualifiers: B Analyte detected in the associated Method Blank    E Value exceeds the instrument calibration range    J Analyte detected below the PQL  
 ND Not Detected as the Practical Quantitation Limit (PQL)    R RFD exceeds accepted precision limit    S Spike Recovery outside accepted recovery limits  
 U Not Detected as the MDC or RL

Date: 29-Oct-07    Page 3 of 6



**Life Science Laboratories, Inc.**

5000 Brimfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-6200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710061  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: LC8-8398	Sample Type: LCS	Test Code: TCL/PCP	Units: mg/L	Prep Date: 10/17/07	Run No: 11863
Client ID: ZZZZZ	Batch ID: 8398	Method: SW6010B	(SW6010A)	Analysis Date: 10/19/07	Seq No: 312008
Instrument:	Column ID:				

Analyte	QC Sample Result	POL	SPK Added	Plant Sample Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPOL Limit	Out
Arsenic	0.194	0.10	0.2	0	97	85	115				
Barium	0.190	0.10	0.2	0	95	85	115				
Cadmium	0.190	0.020	0.2	0	95	85	115				
Chromium	0.195	0.10	0.2	0	97	85	115				
Lead	0.196	0.10	0.2	0	98	85	115				
Selenium	0.188	0.020	0.2	0	94	85	115				
Silver	0.0469	0.10	0.06	0	94	85	115				

**Qualifier:** B Analyte detected in the associated Method Blank  
 MD Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDC or RL  
 E Value exceeds the instrument calibration range  
 R RPD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spike Recovery outside accepted recovery limits

**Date:** 28-Oct-07 Page 1 of 1

**Life Science Laboratories, Inc.**

5090 BrittonGale Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0260

**ANALYTICAL QC SUMMARY REPORT**

Method: SW1311/7470A  
 Work Order: 0710053  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: LCS-4388	Sample Type: LCS	Test Code: TCLPHG	Units: mg/L	Prep Date: 10/19/07	Run No: 11888					
Client ID: ZZZZ	Batch ID: 8388	Method: 801515/470 (8017/470A)		Analyte Date: 10/19/07	Sample: 318002					
Instrument:	ColumnID:									
Analyte	QC Sample Result	POL	SPK Added	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDUnit	Qual
Mercury	0.00489	0.00020	0.005	0	98	96	115			

Parent Sample Result

Qualifiers	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spiked Recovery outside accepted recovery limits
	U	Not Detected at the MDC or RL				
Date:	29-Oct-07					

**Life Science Laboratories, Inc.**

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 East Syracuse, NY 13057 (315) 457-0000

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710035  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: 88-4383	Sample Type: MBLK	Test Code: TCLMCP	Units: mg/L	RunNo: 11618
Client ID: ZZZZZ	Batch ID: 8383	Method: SW6010B	(SW6010A)	Setup: 312024
Instrument:	ColumnID:			

Analyte	QC Sample Result	PQL	SPX Added	%REC	LowLimit	HighLimit	RFD Ref Val	%RFD	RFDLimit	Qual
Arsenic	ND	0.10								
Barium	ND	0.10								
Cadmium	ND	0.020								
Chromium	ND	0.10								
Lead	ND	0.10								
Selenium	ND	0.020								
Silver	ND	0.10								

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDC or RL

Date: 29-Oct-07

Page 3 of 5

**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710081  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: MB-0306	Sample Type: MBLK	Test Code: TCLP/CP	Units: mg/L	Prep Date: 10/17/07	Run No: 11663					
Client ID: ZZZZZ	Batch ID: 6398	Method: SW6010B	(SW72610A)	Analyte Date: 10/16/07	Sample: 312866					
Instrument:	Column ID:									
Analyte	QC Sample Result	POL	SPK Added	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPOL Limit	Qual
Arsenic	ND		0.10							
Barium	ND		0.10							
Cadmium	ND		0.020							
Chromium	ND		0.10							
Lead	ND		0.10							
Selenium	ND		0.020							
Silver	ND		0.10							

Parent Sample Result

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (POL)  
 U Not Detected at the MDL or RL

E Value exceeds the instrument calibration range  
 R RPD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spike Recovery outside accepted recovery limits

Date: 29-Oct-07

**Life Science Laboratories, Inc.**

5609 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13657 (315) 437-8280

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: TBLK24336	Sample Type: TBLK	Test Code: TCL/PCP	Unit: mg/L	Prep Date: 10/18/07	Run#: 11818
Client ID: ZZZZZ	Batch ID: 6333	Method: SW6010B	(SW6010B)	Analysis Date: 10/18/07	Seq#: 31828
Instrument:	ColumnID:				

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPO Ref Val	%RPO	RPOLimit	Qual
Arsenic	ND	0.50									
Berium	ND	0.50									
Cadmium	ND	0.10									
Chromium	ND	0.50									
Lead	ND	0.60									
Selenium	ND	0.10									
Silver	ND	0.50									

Qualifiers: B Analyte detected in the amended Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDC or BL

29-Oct-07

29-Oct-07

1 Analyte detected below the PQL  
 5 Spike Recovery outside accepted recovery limits

Page 4 of 5

**Life Science Laboratories, Inc.**  
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 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW6010B  
 Work Order: 0710081  
 Project: Wallingford

CLIENT: Covasza Energy Corporation

Sample ID: TBLK3-0376	Sample Type: TBLK	Test Code: TCLP/PCP	Units: mg/L	Run No: 11683
Client ID: ZZZZ	Batch ID: 0308	Method: SW6010B	(SW70010A)	Sample: 312908
Instrument:	ColumnID:			

Analyte	QC Sample Result	PQL	SPK Added	Percent Sample Result	%REC	LowLine	HighLine	RPD Ref Val	%RPD	RPQLimit	Qual
Arsenic	ND	0.50									
Barium	ND	0.50									
Cadmium	ND	0.10									
Chromium	ND	0.50									
Lead	ND	0.50									
Selenium	ND	0.10									
Silver	ND	0.50									

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDC or RL  
 E Value exceeds the instrument calibration range  
 J Analyte detected below the PQL  
 R RPD exceeds accepted precision limit  
 S Spike Recovery outside accepted recovery limits

Date: 29-Oct-07

**Life Science Laboratories, Inc.**  
 5000 Brittonfield Parkway, Suite 209  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW1311/7470A  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: MB-4308	Sample Type: NBLK	Test Code: TCLPHG	Units: mg/L	Prep Date: 10/18/07	Run Date: 11/26/08					
Chart ID: ZZZZZ	Batch ID: 6308	Method: SW1311/7470A	Method: SW1311/7470A	Analyte Date: 10/18/07	Sample: 315391					
Instrument:	Column ID:									
Analyte	QC Sample Result	POL	SPK Added	%REC	Low Limit	Hg Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	ND		0.00020							

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDC or RL

**Notes:**  
 29-Oct-07

**Legend:**  
 E Value exceeds the instrument calibration range  
 R RPD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spikes Recovery outside accepted recovery limits

Page 1 of 2

**Life Science Laboratories, Inc.**  
 5000 Brittonfield Parkway, Suite 200  
 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW1311/7470A  
 Work Order: 0710055  
 Project: Wallingford

CLIENT: Covanta Energy Corporation

Sample ID: TBLQ2-4330	Sample Type: TBLK	Test Code: TCLPH0	Units: mg/L	Prep Date: 10/18/07	Run No: 11606					
Client ID: ZZZZ	Batch ID: 6300	Method: SW1311/7470 (SW1311/7470A)		Analysis Date: 10/18/07	Sample: 312768					
Instrument:	Column ID:									
Analyte	QC Sample Result	PQL	SPK Added	%REC	LowLimit	HighLimit	RFD Ref Val	%RFD	RFD Limit	Qual
Mercury	ND	0.00040								

Present Sample Result

Qualifiers: B Analyte detected in the associated Method Blank  
 ND Not Detected at the Practical Quantitation Limit (PQL)  
 U Not Detected at the MDCL or RL  
 E Value exceeds the instrument calibration range  
 R RFD exceeds accepted precision limit  
 J Analyte detected below the PQL  
 S Spike Recovery outside accepted recovery limits  
 Date: 29-Oct-07



**Life Science Laboratories, Inc.**

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 East Syracuse, NY 13057 (315) 437-0200

**ANALYTICAL QC SUMMARY REPORT**

Method: SW1311/7470A  
 Work Order: 0710053  
 Project: Wallingford

**CLIENT: Covanta Energy Corporation**

Sample ID: TBLK3-0378	Sample Type: TBLK	Test Code: TOLPHG	Units: mg/L	Prep Date: 10/18/07	Run No: 11668					
Client ID: ZZZZZ	Batch ID: 6000	Method: 809131/7478 (8W7470A)		Analyte Date: 10/18/07	Seq No: 312796					
Instrument:	Column ID:									
Analyte	QC Sample Result	PQL	SPK Added	MRBC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	ND	0.00040								

**Qualifiers:** B Analyte detected in the associated Method Blank  
 ND Not Detected at the Precision Quantitation Limit (PQL)  
 U Not Detected at the MDL or RL

**Date:** 29-Oct-07

**Page 2 of 5**

Late Science Laboratories, Inc. - Brittonfield  
TRACE METALS SECTION  
TCLP SAMPLE PREPARATION AND EXTRACTION LOGBOOK

BATCH# 6330 Date: 10/10/07 PR 10/10/07 METHOD 1311 (EPA SW-846, 1986)

Sample ID	Client ID	M SV H&P	Sample Description	Free Liquid	Initial pH	Inter- mediate pH	TCLP Fluid Used	Sample Size (g)	Final Volume mL	Final pH of extract	Notes
0710055-001A	Wallingford	M	Ash	no	11.98	10.31	2	100	2000	7.99	203
-002A					11.91	10.57				9.79	
-003A					11.88	11.01				10.29	
-004A					11.94	10.66				10.10	
-005A					11.86	11.65				9.73	
-006A					12.05	11.55				10.17	
-007A					11.94	11.75				10.22	
TBLK2-6330	-	M	-	-	2.88	11.79		-		2.89	
						DL					
						10-11-07					
											Ret 10-11-07

REAGENTS

Filter lot # 22-693/69A

Agitation time (18 = 2 hrs)

TCLP EXTRACTION FLUID #1: -

Start Date/Time: 10/10/07 16:30

TCLP EXTRACTION FLUID #2: 2596-R

Finish Date/Time: 10/11/07 09:30

ROOM TEMP (23 ± 2 °C): On: Min/Max 22 / 22 °C Off: Min/Max 22 / 22 °C

- Notes:
- 1.) Assume fluid # 2 as per client, analyze undigested.
  - 2.) Assume fluid # 2 as per client, need leachate pH only.
  - 3.) MS sample = 0710055-001A (1.0 mL of ICP spike soln# 8420-5), (0.1 mL of Hg spike soln# 6957-5)  
Metals aliquots acidified with nitric acid to pH < 2. (YES/ no)

Analyst's comments

ANALYST'S SIGNATURE: Daniel D. [Signature]

DATE: 10-10-07

REVIEWED BY: [Signature]

DATE: 10-11-07

TRACE METALS SECTION  
TCLP SAMPLE PREPARATION AND EXTRACTION LOGBOOK

BATCH # 6376

Date: 10-16-07

METHOD 1311 (EPA SW-846, 1986)

Sample ID	Client ID	M SV H&P	Sample Description	Free Liquid	Initial pH	Instr-read pH	TCLP Fluid Used	Sample Size (g)	Final Volume mL	Final pH of extract	Note
6710052-001A		M	ASH	NO	10.02	2.97	1	100	2000	8.70	OC
002A					10.13	2.51				8.52	
003A					10.50	2.82				6.78	
004A					9.92	2.90				7.52	
005A					10.71	2.79				8.95	
006A					10.87	2.98				8.49	
007A					10.49	2.32				7.47	
008A					11.09	2.61				8.99	
009A					11.09	2.23				8.73	
010A					10.95	2.01				8.39	
0710061-001A		M			9.21	5.21	2	100		5.49	
78LKI-6376					4.94	-	1			4.94	
TBLK7-6376					2.88	-	2			2.90	
0710051-001A	WALTON, FORD		ASH	NO	11.92	11.28	1	100		10.59	
-002A					11.92	11.15				10.24	
-003A					12.03	11.57				10.15	

REAGENTS

Filter lot # 66-633168N

Agitation time (18 ± 2 hrs)

\* OC 10/16/07

TCLP EXTRACTION FLUID #1: 2590-P

Start Date/Time: 10/16/07 @ 15:45

TCLP EXTRACTION FLUID #2: 2591-B

Finish Date/Time: 10/17/07 @ 08:30

ROOM TEMP (23 ± 2 °C): On: Min/Max 22 / 22 °C Off: Min/Max 22 / 22 °C

- Notes:
- 1.) Assume fluid # 2 as per client, analyze undigested.
  - 2.) Assume fluid # 2 as per client, need teachate pH only.
  - 3.) MS sample = 0710052-001A (1.0 mL of TCP spike soln # 6420-3), (0.1 mL of Hg spike soln # 6953-9) Metals aliquots acidified with nitric acid to pH < 2. (yes/no)

Analyst's comments

ANALYST'S SIGNATURE: Daniel O. Pelt

DATE: 10-16-07

REVIEWED BY: [Signature]

DATE: 10-17-07

Life Science Laboratories, Inc. - Brittonfield Lab

SAMPLE PREPARATION SUMMARY FORM

ASH PROJECTS

Project/Facility Name: WALLINGFORD

Sample Description	Sample ID	Total Sample (lbs)	2A Sample > 2" (lbs)	2B Sample < 2" (lbs)	Frac. A Sample > 3/8" (lbs)	Frac. B Sample < 3/8" (lbs)	Date Prepared
WALL/CA/REP							
9-27-07 / 1B	0710056-001A	2.88	0.10	2.70	1.63	1.06	10/22/07
↓ / 2B	002A	3.42	0.04	3.38	1.80	1.58	
9-29-07 / 1A	003A	2.44	0.06	2.38	1.22	1.14	
9-29-30-07 / 2A	004A	3.46	0.04	3.42	1.65	1.74	
9-30-07 / 1A	005A	2.76	0.06	2.70	0.99	1.70	
9-30-07 / 2A	006A	4.24	0.06	4.18	1.80	2.38	
10-2-07 / 1A	007A	3.56	0.16	2.40	1.00	1.39	

2A - Sample material > 2 inches and non-crushable metal fragments.  
 2B - Sample material < 2 inches.  
 Fraction A - Sample material > 3/8 inches.  
 Fraction B - Sample material < 3/8 inches.

Analyst: Daniel D. Blunt Date: 10-10-07

Reviewed by: [Signature] Date: 10-11-07

Life Science Laboratories, Inc. - Brittonfield Lab

SAMPLE PREPARATION SUMMARY FORM

ASH PROJECTS

\*OR 10-16-07

Project/Facility Name: WALLINGFORD

Sample Description	Sample ID	Total Sample (lbs)	2A Sample > 2" (lbs)	2B Sample < 2" (lbs)	Frac. A Sample > 3/8" (lbs)	Frac. B Sample < 3/8" (lbs)	Date Prepared
WALL/CA/CLD 9-29-07 1/A <del>0710081-007A</del>	0710081-007A	1.82	0.06	1.76	2.04	1.71	10-16-07
10-03-07-07/1A	↓ 002A	3.04	0.00	3.04	0.01	3.02	↓
10-07-07/1A	↓ 009A	2.16	0.00	2.16	0.01	2.14	↓
							OR 10-16-07

2A - Sample material > 2 inches and non-crushable metal fragments.

2B - Sample material < 2 inches.

Fraction A - Sample material > 3/8 inches.

Fraction B - Sample material < 3/8 inches.

Analyst: Daniel D. Robert Date: 10-16-07

Reviewed by: [Signature] Date: 10-23-07



Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: GOVANTA

Date and Time Received: 10/8/2007 11:58:00 AM

Work Order Number 8710888

Received by: *ada*

Checklist completed by:

*[Signature]* 10/8/07  
Initials Date

Reviewed by:

*[Signature]* 10/8/07  
Initials Date

Matrix:

Carrier name: LPS

- |                                                         |                                         |                                        |                                                            |
|---------------------------------------------------------|-----------------------------------------|----------------------------------------|------------------------------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/>                       |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Present <input checked="" type="checkbox"/>            |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Chain of custody agrees with sample labels?             | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |                                                            |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                                                            |
| Water - VOA vials have zero headspace?                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | Not Applicable <input checked="" type="checkbox"/>         |

Comments:

Lab Sample Number 1 through 3 not received, received instead: "WAL/CA/TC/PH-27-07/1B" and "...B-27-07/2B" which are not listed on COC.

Corrective Action: *Notified Jason Fauer.*

**UPS Internet Shipping: View/Print Label**

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**




**Customers without a Daily Pickup**

  - Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.
  - Hand the package to any UPS driver in your area.
  - Take your package to any location of The UPS Store<sup>®</sup>, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot<sup>®</sup> or Staples<sup>®</sup>) or Authorized Shipping Outlet near you. Items sent via UPS Return Services<sup>SM</sup> (including via Ground) are accepted at Drop Boxes.
  - To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.

**Customers with a Daily Pickup**

  - Your driver will pickup your shipment(s) as usual.

FOLD HERE

RETURN TO: LIFE SCIENCE LABS 5000 BRITTON FIELD PARKWAY SYRACUSE NY 13201 13201	SHIP TO: SAMPLES RECEIVING LIFE SCIENCE LABS SUITE 300 BOX 4942 5000 BRITTON FIELD PARKWAY SYRACUSE NY 13201 13201	NY 132 9-01 	UPS GROUND TRACKING #: 1Z 034 478 03 9844 6082 	BILLING: P/P 
15 LBS				
1 OF 1				





Client name		Covanta Projects of Waukegan		Project or PO #																									
Address		530 South Cheney St.		Phone (203) 294-1699																									
City, State, Zip		Waukegan, CT 06495		Report station																									
Sample number		1456		Jelly Creek																									
Date sampled	Time sampled	Type	Sample description	Number of containers	Remarks																								
10/16/00	11:00	CA	Waste (TCLU)-03-07-LIA	1	please crush																								
SEND TO: LIFE SCIENCE LABS 5000 BRIMFIELD PARKWAY SUITE 300, BOX 4942 SYRACUSE, NY 13221																													
Signature		John Fahn		Company																									
Printed by		Adam Schatz		Covanta Projects of Waukegan																									
Signature		[Signature]		Date																									
Printed by		Adam Schatz		10/16/00																									
Signature		[Signature]		Date																									
Printed by		[Name]		Date																									
<table border="1"> <tr> <th>Analysis required</th> <th>TEC Metals</th> <th>Lead</th> <th>Cadmium</th> <th>Chromium</th> <th>Mercury</th> <th>Vanadium</th> <th>Asbestos</th> <th>PCBs</th> <th>PAHs</th> <th>Organic</th> <th>Other</th> </tr> <tr> <td>NO</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>Y</td> </tr> </table>						Analysis required	TEC Metals	Lead	Cadmium	Chromium	Mercury	Vanadium	Asbestos	PCBs	PAHs	Organic	Other	NO	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Analysis required	TEC Metals	Lead	Cadmium	Chromium	Mercury	Vanadium	Asbestos	PCBs	PAHs	Organic	Other																		
NO	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y																		

**GOVANTA**  
ENERGY

Covanta Projects, Inc.  
A Covanta Energy Company  
41 Lane Road, CT 06495  
P.O. Box 111, Waukegan, IL 60087-0111  
Tel: 815.622.8888

\* KEY: AQ - Aqueous MA - Nonaqueous SL - Sludge GW - Groundwater SO - Soil  
OT - Other PE - Petroleum BA - Bottom Ash FA - Flyash CA - Combined Ash

COV Log Number

Client name: **COVANTA PROJECTS OF WALLINGFORD** Project or PO #

Address: **530 SOUTH CREEPY ST.** Phone: **(203) 294-1619**

City, State, Zip: **WALLINGFORD, CT 06492** Report attention: **JERRY CAMPBELL**

Lab Sample Number: **1016** Date sampled: **09/10/11** Type of Sample: **CA** Number of containers: **1**

Sample description: **WALLINGFORD / 11A**

Sampled by: **TOOD WHEELER**

Remarks: **please crush**

Analysis required	Notes
TCU METALS	( )
PERCENT METAL	( )
INVESTING COPY	( )
FIELD ANALYSIS	( )
FIELD SAMPLING	( )
FIELD REPORT	( )
FIELD DATA	( )
FIELD PHOTO	( )
FIELD VIDEO	( )
FIELD DRAWING	( )
FIELD LOG	( )
FIELD SAMPLE	( )
FIELD CONTAINER	( )
FIELD LABEL	( )
FIELD TAG	( )
FIELD PHOTO	( )
FIELD VIDEO	( )
FIELD DRAWING	( )
FIELD LOG	( )
FIELD SAMPLE	( )
FIELD CONTAINER	( )
FIELD LABEL	( )
FIELD TAG	( )

Company: **COVANTA PROJECTS OF WALLINGFORD**

Date: **10/11/11** Time: **0930**

Date: **10/10/11** Time: **1015**

Signature: **[Signature]** Print Name: **JASON FARRIS**

Signature: **[Signature]** Print Name: **ADAM SCHOTZ**

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

**COVANTA ENERGY**

Covanta Projects, Inc.  
A Covanta Energy Company  
40 Lane Road, 03105  
Fairfield, NJ 07007-2015  
TEL 870 882 8888

\*KEY: AQ - Aqueous MA - Nonaqueous SL - Sludge GW - Groundwater SO - Soil  
OT - Other PE - Petroleum BA - Bottom Ash FA - Flyash CA - Combined Ash



Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: COVANTA

Date and Time Received: 10/11/07 10:28:08 AM

Work Order Number 0710091

Received by: sds

Checklist completed by:

*[Signature]*

10/11/07

Reviewed by:

*[Signature]*

10/11/07

Metric:

Carrier name: UPS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody % see with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Comments:

Corrective Action:

**UPS Internet Shipping: View/Print Label**

1. **Print the label(s):** Select the Print button on the print dialog box that appears. *Note: If your browser does not support this function select Print from the File menu to print the label.*
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**


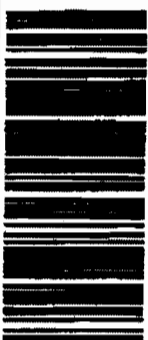
**Customers without a Daily Pickup**

  - Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.
  - Hand the package to any UPS driver in your area.
  - Take your package to any location of The UPS Store<sup>®</sup>, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot<sup>®</sup> or Staples<sup>®</sup>) or Authorized Shipping Outlet near you. Items sent via UPS Return Services<sup>SM</sup> (including via Ground) are accepted at Drop Boxes.
  - To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.

**Customers with a Daily Pickup**

  - Your driver will pickup your shipment(s) as usual.

FOLD HERE

<p>1 LBS 1 OF 1</p> <p>TO: WELLS 200-24-1447 SILE CONTRACT CENTER 500 BRITTON CENTER WALLINGFORD CT 06495</p> <p>SHIP TO: SAMPLES RECEIVING LIFE SCIENCE LABS SUITE 300 BOX 4942 5000 BRITTON FIELD PARKWAY EAST SYRACUSE NY 13057-9229</p>	<p>NY 132 9-01</p> 	<p><b>UPS NEXT DAY AIR SAVER 1P</b></p> <p>TRACKING #: 1Z 094 478 13 9931 7718</p> 	<p>Reference 1: Well with sample 10-03-07/1A</p> <p>Reference 2: Well with sample 10-03-07/1A</p> <p>Reference 3: Well with sample 10-03-07/1A</p>
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**UPS Internet Shipping: View/Print Label**

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
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  - Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.
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  - To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.

**Customers with a Daily Pickup**

  - Your driver will pickup your shipment(s) as usual.


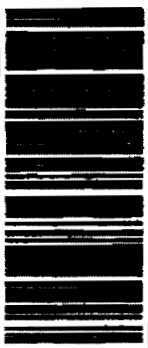
FOLD HERE

<p><b>1 LBS</b> <span style="float: right;"><b>1 OF 1</b></span></p> <p>DW711111</p> <p><b>SHIP TO:</b>          SAMPLES RECEIVING          LIFE SCIENCE LABS          SUITE 300 BOX 4942          5000 BRUTTON FIELD PARKWAY          EAST SYRACUSE NY 13057-9229</p>	<p><b>NY 132 9-01</b></p> 	<p><b>UPS NEXT DAY AIR SAVER 1P</b></p> <p>TRACKING #: 1Z 034 478 13 9548 7328</p> 	<p><b>BILLING: 877</b></p> <p>Reference #1: W11 with sample 10-07-07/1A</p> <p>UP S.A. 14.6       TM</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**UPS Internet Shipping: View/Print Label**

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**
  - Customers without a Daily Pickup**
    - Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.
    - Hand the package to any UPS driver in your area.
    - Take your package to any location of The UPS Store<sup>®</sup>, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot<sup>®</sup> or Staples<sup>®</sup>) or Authorized Shipping Outlet near you. Items sent via UPS Return Services<sup>SM</sup> (including via Ground) are accepted at Drop Boxes.
    - To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.
  - Customers with a Daily Pickup**
    - Your driver will pickup your shipment(s) as usual.

FOLD HERE

<p>1 OF 1</p> <p>1 LBS      DW:11.15.1</p> <p>TO: WALTER          200-204-149-285          COVENTRY PLAZA CT WALLINGFORD, L          1340 SOUTH CHURCH ST.          WALLINGFORD CT 06492</p> <p>SHIP TO:          SAMPLES RECEIVING          LIFE SCIENCE LABS          SUITE 300 BOX 49-42          5000 BRITTON FIELD PARKWAY          EAST SYRACUSE NY 13057-9229</p>	<p>NY 132 9-01</p> 	<p>UPS NEXT DAY AIR SAVER 1P</p> <p>TRACKING #: 1Z 034 478 13 9187 9162</p> 	<p>BILLING: P/P</p> <p>Reference 1: Wall with sample 09-27-07</p> <p>WE BELIEVE      10/9/2007</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------



**ASH CHARACTERIZATION REPORT  
SOUTHEAST CONNECTICUT RESOURCES RECOVERY FACILITY  
PRESTON, CONNECTICUT**

**Covanta SECONN  
2007 Ash Characterization  
Laboratory Data and Statistical Analysis**

Sample Number	Date of Composite	Concentration Levels (mg/l)									
		Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Mercury (Hg)	Selenium (Se)	Silver (Ag)		
2/19-A	2/19/2007	0.010	0.377	1.400	0.010	0.826	0.0010	0.050	0.010		
2/20-A	2/20/2007	0.010	0.630	0.015	0.010	0.010	0.0010	0.050	0.010		
2/21-A	2/21/2007	0.010	0.549	0.011	0.012	0.010	0.0010	0.050	0.010		
2/22-A	2/22/2007	0.010	0.615	0.010	0.015	0.010	0.0010	0.050	0.010		
2/26-A	2/26/2007	0.010	0.468	0.039	0.010	0.013	0.0010	0.050	0.010		
2/27-A	2/27/2007	0.010	0.670	0.062	0.010	0.016	0.0010	0.050	0.010		
2/28-A	2/28/2007	0.010	0.584	0.010	0.010	0.010	0.0010	0.050	0.010		
3/01-A	3/1/2007	0.010	0.486	0.012	0.010	0.010	0.0010	0.050	0.010		
3/02-A	3/2/2007	0.010	0.892	0.010	0.010	0.010	0.0010	0.050	0.010		
3/05-A	3/5/2007	0.010	0.553	0.031	0.010	0.010	0.0010	0.050	0.010		
3/06-A	3/6/2007	0.010	0.644	0.111	0.010	0.457	0.0010	0.050	0.010		
3-07A	3/7/2007	0.010	0.580	0.084	0.010	0.073	0.0010	0.050	0.010		
3/08-A	3/8/2007	0.010	0.433	1.880	0.010	1.690	0.0010	0.050	0.010		
3/09-A	3/9/2007	0.010	0.295	0.019	0.010	0.010	0.0010	0.050	0.010		
<b>Statistical Analysis</b>											
Regulatory Threshold		5.00	100.00	1.00	5.00	5.00	0.20	1.00	5.00		
Number of Samples		14	14	14	14	14	14	14	14		
Sum of the Concentrations		0.1	7.576	3.6937	0.1474	3.154	0.014	0.7	0.14		
(Sum of the Concentrations) <sup>2</sup>		0.0196	57.395776	13.6434197	0.02172676	9.947716	0.000196	0.49	0.0196		
Sum of the Squares of the Concentrations		0.00	4.274154	5.52117125	0.0015805	3.75369158	0.000014	0.035	0.0014		
Student "T" Constant (two tailed confidence interval @ 80%, t.20)		1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
Mean, x		0.010	0.541	0.264	0.011	0.225	0.001	0.050	0.010		
Variance, s <sup>2</sup>		0.00	0.01	0.35	0.00	0.23	0.00	0.00	0.00		
Standard Deviation, s		0.00	0.12	0.59	0.00	0.48	0.00	0.00	0.00		
Standard Error, s <sub>x</sub>		0.00	0.03	0.16	0.00	0.13	0.00	0.00	0.00		
Upper Confidence Interval (normal)		0.010	0.583	0.477	0.011	0.400	0.001	0.050	0.010		



# Analytical Results



Regarding:

ERIK FREIDENFELDS  
COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
132 MILITARY HIGHWAY  
PRESTON, CT 06365

ERIK FREIDENFELDS  
COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
132 MILITARY HIGHWAY  
PRESTON, CT 06365

Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY P.O. No: 0461214 Inv. No:  
Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY PMSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252528-1	2-19-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N	02/19/07 00:00am NA°F Exceeds recommended temperature	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.377 mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
CADMIUM-TCLP	SW846 Method 6010B	1.40 mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:10PM CC
LEAD-TCLP	SW846 Method 6010B	0.826 mg/l	0.0100 mg/l	04/11/07 12:06PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:06PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	6.34 units	0.100 units	03/30/07 08:45PM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	5.26 units	0.100 units	03/15/07 11:30AM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.5 units	0.100 units	03/15/07 08:30AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252528-2	2-20-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N	02/20/07 00:00am NA°F Exceeds recommended temperature	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:12PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:12PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.630 mg/l	0.0100 mg/l	04/11/07 12:12PM BAB

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TMC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
  - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
  - MCL is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Services for further information on acquiring LIVE ACCESS.

*Thomas J. Mines*  
Thomas J. Mines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No: D461214  
 PWSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252528-2	2-20-A LIMED ASH COMPOSITE	02/20/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
CADMIUM-TCLP	SW846 Method 6010B	0.0148 mg/l	0.0100 mg/l	04/11/07 12:12PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:12PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:24PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:12PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:12PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.22 units	0.100 units	03/30/07 08:45PM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	3.81 units	0.100 units	03/15/07 11:30AM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.3 units	0.100 units	03/15/07 08:30AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252528-3	2-21-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N	02/21/07 00:00am NA°F	Customer Sampled	
Exceeds recommended temperature				
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.549 mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0109 mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	0.0121 mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:26PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:16PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:16PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.17 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	3.46 units	0.100 units	03/15/07 11:30AM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.0 units	0.100 units	03/15/07 08:30AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L2252528-4	2-22-A LIMED ASH COMPOSITE	02/22/07 00:00am NA°F	Customer Sampled

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "ph lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
  - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
  - MCL is the EPA recommended "maximum contaminant level" for a parameter. Fls=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No: 0461214  
 PWSID No:

Inv. No:

Received Temp: 57°F Iced (Y/N): N Exceeds recommended temperature

Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.615 mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0103 mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	0.0153 mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:31PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:18PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:18PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.35 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	3.68 units	0.100 units	03/15/07 11:30AM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.1 units	0.100 units	03/15/07 08:30AM KOR

Sample Number: L2252528-5  
 Sample Description: 2-26-A LIMED ASH COMPOSITE  
 Received Temp: 57°F Iced (Y/N): N Exceeds recommended temperature  
 Samp. Date/Time/Temp: 02/26/07 00:00am NA°F  
 Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.468 mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0390 mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:33PM CC
LEAD-TCLP	SW846 Method 6010B	0.0128 mg/l	0.0100 mg/l	04/11/07 12:30PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:30PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	8.15 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.57 units	0.100 units	03/15/07 11:30AM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.6 units	0.100 units	03/15/07 08:30AM KOR

L2252528-1:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test pH lab is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
- QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP BA166, FL E87954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alitest-NJ 02015, Vineland-NJ 06005; PA 68-580.
- All samples are collected as "grab" samples unless otherwise identified.
- MCL is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No: 0461214  
 PMSID No:

Inv. No:

L2252528-2:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252528-3:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252528-4:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252528-5:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
- QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-580.
- All samples are collected as "grab" samples unless otherwise identified.
- MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Regarding:

ERIK FREIDENFELDS  
 COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 132 MILITARY HIGHWAY  
 PRESTON, CT 06365

ERIK FREIDENFELDS  
 COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 132 MILITARY HIGHWAY  
 PRESTON, CT 06365

Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 PWSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252893-1	2-27-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N	02/27/07 00:00am NA°F Exceeds recommended temperature	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.670 mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0619 mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:35PM CC
LEAD-TCLP	SW846 Method 6010B	0.0157 mg/l	0.0100 mg/l	04/11/07 12:34PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:34PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	7.63 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	3.72 units	0.100 units	03/19/07 01:25PM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.6 units	0.100 units	03/19/07 09:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252893-2	2-28-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N	02/28/07 00:00am NA°F Exceeds recommended temperature	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:36PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:36PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.584 mg/l	0.0100 mg/l	04/11/07 12:36PM BAB

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TMC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "ph lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
  - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005, PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
  - MCL is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 PWSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252893-2	2-28-A LIMED ASH COMPOSITE	02/28/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
CADMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:36PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:36PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:37PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:36PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:36PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.35 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.26 units	0.100 units	03/19/07 01:25PM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.3 units	0.100 units	03/19/07 09:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2252893-3	3-01-A LIMED ASH COMPOSITE Received Temp: 57°F Iced (Y/N): N Exceeds recommended temperature	03/01/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.486 mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0123 mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:39PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:39PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:39PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.00 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.74 units	0.100 units	03/19/07 01:25PM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.9 units	0.100 units	03/19/07 09:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L2252893-4	3-02-A LIMED ASH COMPOSITE	03/02/07 00:00am NA°F	Customer Sampled

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
  - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005, PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
  - MCL is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President





# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 PWSID No:

Inv. No:

Received Temp: 57°F Iced (Y/N): N Exceeds recommended temperature

Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.692 mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
CADMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:40PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:42PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:42PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	9.58 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.82 units	0.100 units	03/19/07 01:25PM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.6 units	0.100 units	03/19/07 09:45AM KOR

Sample Number: L2252893-5 Sample Description: 3-05-A LINED ASH COMPOSITE  
 Received Temp: 57°F Iced (Y/N): N Exceeds recommended temperature  
 Samp. Date/Time/Temp: 03/05/07 00:00am NA°F  
 Sampled by Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
BARIUM-TCLP	SW846 Method 6010B	0.553 mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
CADMIUM-TCLP	SW846 Method 6010B	0.0308 mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:42PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:44PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:44PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	8.58 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.57 units	0.100 units	03/19/07 01:25PM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.8 units	0.100 units	03/19/07 09:45AM KOR

L2252893-1:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/L=laboratory accident; TNTC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
  - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
  - MCL is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 FWSID No:

Inv. No:

L2252893-2:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252893-3:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252893-4:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2252893-5:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLS.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLS=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
- QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL E87954, Bioassay PA034. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-580.
- All samples are collected as "grab" samples unless otherwise identified.
- MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Regarding:

ERIK FREIDENFELDS  
COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
132 MILITARY HIGHWAY  
PRESTON, CT 06365

ERIK FREIDENFELDS  
COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
132 MILITARY HIGHWAY  
PRESTON, CT 06365

Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY P.O. No: Inv. No:  
Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY PMSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2261325-1	3-06-A LIMED ASH COMPOSITE Received Temp: 72°F Iced (Y/N): N Exceeds recommended temperature	03/06/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 60108	ND mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
ARSENIC-TCLP	SW846 Method 60108	ND mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
BARIUM-TCLP	SW846 Method 60108	0.644 mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
CADMIUM-TCLP	SW846 Method 60108	0.111 mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
CHROMIUM-TCLP	SW846 Method 60108	ND mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:44PM CC
LEAD-TCLP	SW846 Method 60108	0.457 mg/l	0.0100 mg/l	04/11/07 12:47PM BAB
SELENIUM-TCLP	SW846 Method 60108	ND mg/l	0.0500 mg/l	04/11/07 12:47PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	8.06 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.81 units	0.100 units	03/22/07 12:30PM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.6 units	0.100 units	03/22/07 08:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2261325-2	3-07-A LIMED ASH COMPOSITE Received Temp: 72°F Iced (Y/N): N Exceeds recommended temperature	03/07/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 60108	ND mg/l	0.0100 mg/l	04/11/07 12:50PM BAB
ARSENIC-TCLP	SW846 Method 60108	ND mg/l	0.0100 mg/l	04/11/07 12:50PM BAB
BARIUM-TCLP	SW846 Method 60108	0.580 mg/l	0.0100 mg/l	04/11/07 12:50PM BAB

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNC=too numerous to count.
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test "ph lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
- QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP PA166, FL EB7954, Bioassay PA034, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 68-590.
- All samples are collected as "grab" samples unless otherwise identified.
- MCL= is the EPA recommended "maximum contaminant level" for a parameter. PLS=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 PMSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2261325-2	3-07-A LIMED ASH COMPOSITE	03/07/07 00:00am NA°F	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
CADMIUM-TCLP	SW846 Method 6010B	0.0836 mg/l	0.0100 mg/l	04/11/07 12:50PM BAB
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/11/07 12:50PM BAB
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:46PM CC
LEAD-TCLP	SW846 Method 6010B	0.0725 mg/l	0.0100 mg/l	04/11/07 12:50PM BAB
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/11/07 12:50PM BAB
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	8.02 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.08 units	0.100 units	03/22/07 12:30PM KOR
PH-TCLP INITIAL	SW846 Method 1311	10.1 units	0.100 units	03/22/07 08:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by	
L2261325-3	3-08-A LIMED ASH COMPOSITE Received Temp: 72°F Iced (Y/N): N	03/08/07 00:00am NA°F Exceeds recommended temperature	Customer Sampled	
Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
BARIUM-TCLP	SW846 Method 6010B	0.433 mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
CADMIUM-TCLP	SW846 Method 6010B	1.88 mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:20PM CC
LEAD-TCLP	SW846 Method 6010B	1.69 mg/l	0.0100 mg/l	04/12/07 02:30PM GJH
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/12/07 02:30PM GJH
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	6.61 units	0.100 units	03/30/07 08:45AM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	5.66 units	0.100 units	03/22/07 12:30PM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.1 units	0.100 units	03/22/07 08:45AM KOR

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L2261325-4	3-09-A LIMED ASH COMPOSITE	03/09/07 00:00am NA°F	Customer Sampled

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.  
 - Definitions: ND-not detected; NEG-negative; POS-positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count  
 - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.  
 - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.  
 - The test "PH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.  
 - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.  
 - QC certification ID's: Southampton (NELAP) PADEP 09-131, NJDEP BA166, FL E87954, Bloassay PA034, NON-NELAP labs: Wind Gap-NJ PAD01, Alltest-NJ 02015, Vineland-NJ 06005, PA 68-580.  
 - All samples are collected as "grab" samples unless otherwise identified.  
 - MCL- is the EPA recommended "maximum contaminant level" for a parameter. PLs=customer specific permit limits.  
 Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

*Thomas J. Hines*  
 Thomas J. Hines, President



# Analytical Results



Account No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY  
 Project No: W07077, COVANTA SOUTHEASTERN CONNECTICUT COMPANY

P.O. No:  
 PWSID No:

Inv. No:

Received Temp: 72°F Iced (Y/N): N Exceeds recommended temperature

Parameter	Method	Result	RLs	Test Date, Time, Analyst
SILVER-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
ARSENIC-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
BARIUM-TCLP	SW846 Method 6010B	0.295 mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
CADMIUM-TCLP	SW846 Method 6010B	0.0191 mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
CHROMIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
MERCURY-TCLP	SW846 Method 7470	ND mg/l	0.00100 mg/l	04/11/07 03:49PM CC
LEAD-TCLP	SW846 Method 6010B	ND mg/l	0.0100 mg/l	04/12/07 02:27PM GJH
SELENIUM-TCLP	SW846 Method 6010B	ND mg/l	0.0500 mg/l	04/12/07 02:27PM GJH
TCLP EXTRACTION	SW846 Method 1311	COMPLETE		03/29/07 01:55PM KOR
PH-TCLP FINAL	EPA 600 Method 150.1	8.35 units	0.100 units	03/30/07 08:45PM KOR
PH-TCLP HEATED	EPA 600 Method 150.1	4.07 units	0.100 units	03/22/07 12:30PM KOR
PH-TCLP INITIAL	SW846 Method 1311	11.1 units	0.100 units	03/22/07 08:45PM KOR

L2261325-1:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2261325-2:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2261325-3:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

L2261325-4:

1. The TCLP extraction was performed in accordance with 40 CFR parts 261.24 and 268.7.

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
  - Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNC=too numerous to count
  - A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
  - All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
  - The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
  - Actual times of analysis for parameters reported <24 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted.
  - QC certification ID's: Southampton (NEIAP) PADEP 09-131, NJDEP FA166, FL E87954, Bioassay PA034, NON-NEIAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005, PA 68-580.
  - All samples are collected as "grab" samples unless otherwise identified.
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*Thomas J. Hines*  
 Thomas J. Hines, President

**APPENDIX 4**

**WALLINGFORD RESOURCE RECOVERY FACILITY**

- **Permit to Operate**
- **Site Drawing**



**STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**



January 20, 2006

**RECEIVED**

**JAN 25 2006**

**CRRA  
ENVIRONMENTAL**

Mr. Peter W. Egan  
Director of Environmental Services  
Connecticut Resources Recovery Authority (CRRA)  
100 Constitution Plaza, Hartford, CT 06266

Mr. Brian Keefe  
Covanta Projects of Wallingford, L.P.  
530 South Cherry Street, Wallingford, CT 06492

Re: Wallingford Resources Recovery Facility (RRF)  
Application No. 200301666 for a new Permit to Operate

Dear Messrs. Egan and Keefe:

Please find enclosed a certified copy of the Permit to Operate the Wallingford RRF located at 530 South Cherry Street, Wallingford, CT.

If you have any questions concerning this permit, please contact Calin Tanovici from my staff at 424-3315.

Sincerely,

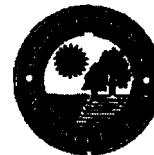
A handwritten signature in cursive script that reads "Kim E. Hudak".

Kim E. Hudak, P.E.  
Supervising Sanitary Engineer  
Waste Engineering and Enforcement Division  
Bureau of Waste Management

Encl:1  
KH:ct



**STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**



**PERMIT TO OPERATE**

**CO-PERMITTEES:** Connecticut Resources Recovery Authority (CRRA)  
Covanta Projects of Wallingford, L.P. (CWP)  
**FACILITY ADDRESS:** 530 South Cherry Street, Wallingford, CT 06492  
**PERMIT No.:** 1480694 - PO

Pursuant to Section 22a-208a of the Connecticut General Statutes ("CGS") and Section 22a-209-4 of the Regulations of Connecticut State Agencies ("RCSA"), a PERMIT TO OPERATE IS HEREBY ISSUED by the Commissioner of the Department of Environmental Protection ("Commissioner") to Connecticut Resources Recovery Authority and Covanta Projects of Wallingford, L.P. ("Co-Permittees") for the operation of the Wallingford Resources Recovery Facility located at 530 South Cherry Street, Wallingford, CT. ("Facility").

This permit incorporates and updates all operational conditions specified in the following permits expired on 12/6/2000: Permit to Operate No. 1480153 issued on 10/1/91 and three (3) related minor permit amendments (No. 1480153 issued on 7/30/92; No. 1480153 issued on 2/18/93; and No. 1480321 issued on 12/6/95).

**TERMS AND CONDITIONS**

As used in this permit, the following definitions apply:

"Bypass Waste" means any solid waste, contractually defined as Acceptable Waste destined for, or received at the Facility, but not processed at the Facility for any reason and which must be disposed of by other means.

"Commissioner" means the Commissioner of the Department of Environmental Protection or the Commissioner's designee.

"Department" means the Department of Environmental Protection.

"Non-ash residue" means any solid waste received at the Facility, but determined by the Co-Permittees to be unsuitable for combustion and which must be disposed of by means other than combustion at the Facility.



"P.E." means a professional engineer licensed to practice in the State of Connecticut.

"Processed Construction and Demolition Wood" means the wood portion of the construction and demolition waste which has been sorted to remove plastics, plaster, gypsum wallboard, asbestos, asphalt shingles, regulated wood fuel as defined in Section 22a-209a of CGS and wood which contains creosote or to which pesticides have been applied or which contains substances defined as hazardous waste under Section 22a-115 of CGS.

"Processing" means the practice by which either the physical characteristics or volume of solid waste accepted at the Facility is being altered through combustion.

"Residue" means bottom ash, air pollution control residue or other residues from the combustion control process.

"Special Waste" includes wastes as defined in RCSA Section 22a-209-1 handled in a manner in conformance with CGS 22a-208y and the Facility's Special Waste Disposal Plan, which may be updated from time to time.

2. The Co-Permittees are authorized to operate the Facility in accordance with all applicable documents specified in previous permits issued for the Facility and Application No. 200301666, including attachments thereto and the following documents incorporated herein by reference:
  - a. Application Form, signed by CRRA and CPW.
  - b. Executive Summary. (Attachment A)
  - c. Statement of Consistency with Solid Waste Management Plan (Attachment E)
  - d. A binder incorporating seven (7) related documents regarding various agreements for solid waste disposal at the Facility (part of Attachment G), including a 9/25/01 updated letter of agreement between CRRA and Covanta Energy Corporation (CEC).
  - e. A copy of a 4/9/2000 letter from CRRA to Charles Atkins (part of Attachment G), with four (4) contractual arrangements for handling of ash residue, non-ash residue and by-pass waste.
  - f. Updated organizational charts of CPW and CRRA (part of Attachment G).
  - g. A letter dated 6/8/01 from CPW to the Department explaining the name change from Ogden Projects of Wallingford, L.P. to CPW (part of Attachment G).
  - h. A letter dated 3/21/05 from CRRA to Calla Tanovici (DEP) providing comments related with various operational aspects, including specifications related with the proposed overnight MSW transfer activities and an updated PE certified drawing dated 3/17/05 titled "Exterior Ash Residue Staging Area "D" prepared by HRP Associates, Inc.
  - i. A list of 29 drawings submitted as part of Attachment H.
  - j. A letter dated 9/4/03 from CPW, including the following PE certified drawings:
    - Site Plan (Fig. 1) revised 8/20/03, prepared by HRP Associates.
    - Fire Protection Plan (Fig.2), revised 8/20/03, prepared by HRP Associates.

- k. A letter dated 9/11/03 from CPW, including the following P.E. certified drawings prepared by Nadaskay/Kopelson.
  - A1 - Site Plan, Floor Plan & Exterior Elevations (revised 3/17/92).
  - A2 - Foundation, Concrete, Framing Plan & Details (revised 3/17/92)
  - A3 - Sidewall Framing, Building Section & Details (revised 2/27/92).
- l. A letter dated 10/20/03 from CPW, including the following P.E. certified documents prepared by Simplex Grinell:
  - FP1 - Tipping Area and Receiving Area (Fire Protection) System Calculations, dated 10/7/03.
  - Hydraulic Calculations for Covanta Energy Receiving Area, dated 10/16/03.
  - Hydraulic Calculations for Covanta Energy Tipping Area, dated 10/16/03.
- m. A letter dated 2/13/04 from CPW, including the following P.E. certified drawings:
  - Tipping Floor Storage Plan, revised 2/13/04, prepared by Covanta Engineering Services, showing all operational areas of the tipping floor (TF).
  - Building Floor Plan, revised 2/12/04, prepared by Fluor Engineers, Inc.
- n. An updated Operating and Maintenance Manual, last revised 5/2003 (part of Attachment H).
- o. An updated Environmental Compliance Operating Manual, last revised 5/2001 (part of Attachment H).
- p. A signed Certification Regarding Activities Previously Licensed by DEP (Attachment L).
- q. A binder incorporating a set of seven (7) operational agreements and amendments between CRRA, OPW and CPW (part of Attachment G):
  - (i) Amended and Restated Waste Disposal Contract between CRRA and Wallingford Resources Recovery Associates, L.P., dated 2/1/90.
  - (ii) Amendment #1, dated 10/8/91 between CRRA and OPW.
  - (iii) Amendment #2 (1/24/92) between CRRA and OPW.
  - (iv) Amendment #3, dated 10/31/95 between CRRA and OPW.
  - (v) Amendment #4, dated 9/1/98, between CRRA and OPW.
  - (vi) Letter of Agreement dated 6/5/01 between CRRA and CEC (4 pages).
  - (vii) Updated agreement letter, dated 9/25/01 between CRRA and CEC (consisting of 3 pages + 2 exhibits).

The Co-Permittees shall maintain copies of all documents comprising all data pertaining to the application mentioned in this condition, as well as any supplemental information submitted to the Department in connection with such application. Any inaccuracies found in the information submitted by the Co-Permittees may result in revocation, re-issuance, or modification of this permit and civil or criminal enforcement actions.

- 3. The Co-Permittees shall comply with all terms and conditions of this permit. This permit consists of the conditions contained herein and the specifications contained in the application documents, except where such specifications are superseded by the more stringent conditions contained herein. Violation of any provision of this permit is subject to enforcement action pursuant, but not limited, to CGS Sections 22a-6, 22a-208, 22a-225 and 22a-226.

Wallingford RRF  
Permit to Operate  
Page 4

4. The Co-Permittees shall make no changes to the specifications and requirements of this permit, except in accordance with law.
5. The Co-Permittees shall submit for the Commissioner's review and written approval all necessary documentation supporting proposed physical/operational upgrades, improvements and/or minor changes in the Facility design, practices or equipment. A written approval may be issued only if, in Commissioner's judgment, the proposed physical/operational upgrades, improvements and/or minor changes: (a) are deemed necessary for a better and more efficient operation of the Facility; (b) are not significantly changing the nature of the Facility, or its impact on the environment; and (c) does not warrant the issuance of a permit or authorization pursuant to Section 22a-208 of the CGS.
6. The Co-Permittees are authorized to operate the Facility in accordance with all applicable law, including this permit.
7. The Co-Permittees shall only accept and process at the Facility: (a) municipal solid waste (MSW) as defined in CGS Section 22a-207; (b) Special Waste and/or Processed Construction and Demolition Waste in accordance with a plan approved by the Commissioner pursuant to CGS Section 22a-208y. Hazardous waste shall not be accepted, processed, disposed of or stored at the Facility. Any waste determined as unsuitable for incineration shall be segregated for proper disposal.
8. The Co-Permittees shall limit the Facility's processing capacity as described below, based on the combusted waste having a higher heating design value (HHV) indexed at 5,000 BTU/lb.
  - a. The maximum daily tonnage (TPD) of solid waste combusted at the Facility shall not exceed a total of 420 TPD (140 TPD per incinerator/boiler unit), based on 24 hours per day. As necessary, and/or to demonstrate operational compliance, such amount can be further adjusted based on other related operational parameters (i.e. steam flow rate) specified in the permits issued by the Bureau of Air Management.
  - b. In accordance with CGS Section 22a-213(a) and RCSA Section 22a-209-5, all contracts made after July 1, 1971 between the Co-Permittees and any city, town, borough or regional authority to provide for collection, transportation, processing, storage and disposal outside of their boundaries of solid waste generated within its boundaries or any of such services, shall be submitted for Commissioner's review pursuant to CGS Section 22a-213(b). The Commissioner shall not approve long-term contracts exceeding the processing guarantee of 125,216 tons/year (TPY).
  - c. The maximum annual solid waste combusted throughput shall not exceed a total of 153,300 TPY of solid waste accounted as received over the scale, subsequently adjusted for pit and TF storage inventories and other solid waste amounts not combusted (waste unsuitable for incineration; waste transferred off-site; etc.), and measured on a calendar year basis.
  - d. The processing capacities specified in subparagraphs No. 8.a. and No. 8.b. may be adjusted upward or downward based on the ratio of design HHV = 5,000 BTU/lb of solid waste to the measured heating value (BTU/lb) of the incinerated solid waste, as specified in selected sections of the disposal contract identified under condition No. 2.q.(i) of this permit.

9. On-site handling/storage activities shall be in compliance with the following limits and specifications:

a. On-site storage limits:

**Indoor Storage**

MSW in the waste pit:	3,704 cy
MSW pile in Area "A" of TF [498 sq.yd. x 4.66 yd. (14 ft.) height x 80%]:	1,858 cy
MSW pile in Area "B" of TF [1,056 sq.yd. x 4.66 yd (14 ft.) height x 80%]:	3,938 cy

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Total MSW (includes *600 cy in containers loaded for daily off-site transfer; see cond. No. 9.b.)	9,500 cy
Wood fuel pile [Area "C" of TF: 96 sq.yd. x 4.66 yd. (14 ft.) height x 80%]:	358 cy
Non-ash residues in container(s) located in the "roll-off" area of the TF:	** 60 cy
Ash residue in container(s) located in the "roll-off" area of the TF:	** 75 cy
Ash residue in container(s) located in the ash handling building:	** 75 cy

**Total indoor storage:** 10,068 cy

**Outdoor Storage**

Ash residue (7 containers staged within Area "D"; see condition No. 9.c.): \*\*525 cy

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**Total on-site storage:** 10,593 cy

Notes: (\*) Up to 24 hours storage; (\*\*) Up to 72 hours storage

b. On-site handling and storage activities on the TF, including the daily off-site transfer of MSW, shall comply with the appropriate specifications noted in condition No. 9.a. above and the following:

- (i) MSW shall be consolidated/stored only in containers designed to prevent leakage and spillage.
- (ii) All MSW handling/loading activities shall be confined to the "enclosed apron" area of the TF and/or the "alternate load out area" (incorporated in Area "B" of the TF).
- (iii) All MSW loaded containers shall be staged within the TF area and shall be covered before/during off-site transfer.
- (iv) All MSW loading/transfer activities shall occur only overnight and be completed prior to 7:00 am or the start of the regular morning waste deliveries, whichever is earlier, in order to mitigate any impact on the daily operation on the TF.
- (v) MSW shall be stored only in the dedicated areas of the TF, as specified in the Tipping Floor Storage Plan drawing noted in condition No. 2.m. of this permit.
- (vi) All other TF areas, not dedicated for MSW handling/storage activities shall be maintained clean of solid waste and be used solely for solid waste unloading, reloading and truck maneuvering.
- (vii) The TF's "roll-off" storage area may also be used for other related activities (i.e.: temporary parking of heavy equipment; storage of miscellaneous items/equipment utilized for the operation of the facility; temporary storage in containers of unacceptable waste inadvertently delivered/received and managed in accordance with condition No. 12.c. of this permit).

- c. On-site handling and storage activities related with ash residue shall comply with the appropriate specifications noted in condition No. 9.a. above and the following:
- (i) Ash residue shall be consolidated/stored only in watertight/sealed containers.
  - (ii) All handling/loading activities shall be confined only to the ash residue building.
  - (iii) All loaded containers shall be staged in dedicated areas within the Facility (on the TF; in the ash loading building; outdoor in the staging Area D) and shall be covered with impervious tarps during their staging outdoors in Area D, as well as before/during off-site transfer.
  - (iv) The outdoor staging Area D shall be monitored daily and cleaned of any spilled ash residue.
10. a. On or before 3/1/06 the Co-Permittees shall submit to the Commissioner for review either: (1) a contract for the disposal or recycling of all residue, non-ash residue, and bypass solid waste estimated to be generated at the Facility during the 12/1/05 - 12/1/10 period; or (2) a plan which demonstrates to the satisfaction of the Commissioner that all residue, non-ash residue, and bypass waste generated at the Facility during such time will be disposed of at a solid waste disposal area which the Co-Permittees owns or operates or exclusively controls for purposes of access and allocation of disposal capacity and which has all authorizations required by law to accept such wastes.
- b. On or before 12/1/09 and in each fifth year thereafter (2014; 2019; etc.), the Co-Permittees shall submit to the Commissioner for review either: (1) a contract for the disposal or recycling of all residue, non-ash residue, and bypass waste estimated to be generated at the Facility from the end of the period covered by the contract or plan most recently submitted under condition No. 10.a. of this permit through five (5) years after such period, or (2) a plan which demonstrates to the satisfaction of the Commissioner that all residue, non-ash residue, and bypass waste generated at the Facility during such period will be disposed of at a solid waste disposal area which the Co-Permittees owns, operates, or exclusively controls for purposes of access and allocation of disposal capacity and which has all authorizations required by law to accept such wastes.
- c. The Co-Permittees shall at all times dispose of or recycle all residue, non-ash residue, and bypass waste generated by the Facility in accordance with the most recent contract or plan submitted under condition No. 10.a. of this permit. If at any time the Co-Permittees are unable to dispose of residue, non-ash residue, and/or bypass waste in accordance with said contract or plan, the Co-Permittees shall store such residue, non-ash residue, and bypass waste in accordance with a management plan submitted for Commissioner's review and approval no less than sixty (60) days before such storage first takes place.
11. If at any time during operation of the Facility, the available capacity for the disposal of ash residue, non-ash residue, and/or by-pass waste at a designated permitted solid waste disposal area is less than three (3) years, the Co-Permittees shall within 45 days, submit for the Commissioner's review and written approval a plan for uninterrupted disposal of such residue, non-ash residue and bypass waste, including a schedule for implementing said plan.

12. The Co-Permittees shall:

- a. Store solid waste on-site in conformance with proper fire control measures. Routine maintenance and inspections of all fire control equipment shall be conducted in accordance with manufacturer's specifications to ensure their proper function during an emergency occurrence.
- b. Ensure that all solid waste accepted is properly handled on-site, processed, stored and that any non-ash residue, ash residue and bypass waste is transported to markets or other solid waste processing or disposal facilities permitted to accept such solid waste.
- c. Ensure that any unacceptable solid waste inadvertently received, or solid waste which is unsuitable for processing at the Facility is: (1) promptly sorted, separated, isolated and temporarily stored in a safe manner prior to off-site transport; (2) recorded and reported in the quarterly report required by condition No. 17 of this permit; and (3) disposed at a facility lawfully authorized to accept such waste.
- d. Provide expeditious notification about any emergency incident (explosion, accident, fire, release, or other significant disruptive occurrence) which: (1) damages equipment or structure; (2) interrupts the operation of the Facility for greater than 24 hours; (3) results in an unscheduled Facility shutdown or forced diversion of solid waste to other solid waste facilities, (4) could reasonably create a source of pollution to the waters of the state, or (5) otherwise threatens public health. Such notification required under this condition shall: (a) be within 24 hours of the emergency incident or the next business day, whichever is sooner; (b) be verified to the Solid Waste Program in Waste Engineering and Enforcement Division of the Bureau of Waste Management by phone at (860) 424-3366, or at another current publicly published number for the Solid Waste Program, or by facsimile at (860) 424-4059, (c) the notification above shall be followed by a written report within 30 days of the emergency incident detailing the cause and effect of the incident, remedial steps taken and emergency backup used or proposed to be implemented; (d) be recorded in a log. In addition to the notification requirements above, the Co-Permittees shall comply with all other applicable reporting or notification requirements regarding the emergency incident including but not limited to, reporting required by Section 22a-450 of the CGS.
- e. Prevent the spillage of liquids or solids from loaded containers during on-site maneuvering/storage and off-site transport; cover each loaded container before transportation off-site and instruct the haulers to keep such containers covered during off-site transportation. Remove any litter from the Facility's premises on a daily basis.
- f. Operate the Facility in a safe manner and control fire, odor, noise, spills, vectors, litter and dust emissions levels in continuous compliance with all applicable requirements, including OSHA.
- g. Process, store or otherwise handle at the Facility all solid waste received in such a manner as to avoid any spillage, nuisance and protect the public health and the environment.
- h. Maintain at the Facility's premises, and have available for review by the Commissioner, the manufacturer's operation and maintenance manuals for each major piece of fixed processing equipment (e.g. incinerators; air control equipment; tanks; etc.) installed at the Facility.

13. The Co-Permittees shall control all traffic related with the operation of the Facility in such a way as to mitigate queuing of vehicles on/off site and excessive or unsafe traffic impact in the area where the Facility is located.

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14. The Co-Permittees shall ensure that, pursuant to RCSA Section 22a-174-18(b)(3)(C), trucks shall not be left idling for more than three consecutive minutes.
15. The Co-Permittees shall have an operator, certified pursuant to Section 22a-209-6 of RCSA, present at all times during Facility operation. All individuals under the supervision of such certified operator shall have sufficient training to identify waste received at the Facility which is not permitted to be received, or is unsuitable for processing, and take proper action in handling such waste.
16. Nothing herein authorizes any person, municipality or authority to hinder municipal or regional solid waste recycling efforts. All activities conducted by the Co-Permittees at the Facility shall be in accordance with the documents submitted as part of the application and in compliance with the adopted Connecticut State Solid Waste Management Plan in effect on the issuance date of this permit.
17. The Co-Permittees shall maintain daily records as required by Section 22a-209-10 of RCSA and Sections 22a-208e and 22a-220 of CGS. Based on such records, the Co-Permittees shall prepare monthly summaries including, but not limited to, the following information:
  - a. Origin (by municipality), type and quantity of solid waste received.
  - b. Destination type and quantities of by-pass waste, ash and non-ash residues.
  - c. Gross and net amount of steam and electrical energy produced and sold.

The monthly summaries shall be submitted quarterly directly to the Planning, Standards and Remediation Division of the Bureau of Waste Management, no later than January 31, April 30, July 31, October 31, of each year on forms prescribed by the Commissioner.

18. The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Any document or action which is due or required on a Saturday, Sunday or a legal state/federal holiday shall be submitted or performed by the next business day thereafter.
19. Any document, including, but not limited to any notice, which is required to be submitted to the Commissioner under this permit shall be signed by a duly authorized representative of the Co-Permittees, as defined in Section 22a-430-3(b)(2) of the RCSA, and by the individual or individuals responsible for actually preparing such documents, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement in the submitted information may be punishable as a criminal offense." Any false statement in any document submitted pursuant to this permit may be punishable as a criminal offense in accordance with Section 22a-6 of the CGS, pursuant to Section 53a-157 of the CGS, and in accordance with any other applicable statute.

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- 20. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material, nor any exclusive privileges, and is further subject to, any and all public and private rights and to any federal, state or local laws or regulations pertinent to the Facility or activity affected thereby.
- 21. Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or to take any actions to prevent violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law.
- 22. Nothing in this permit shall relieve the Co-Permittees of other obligations under applicable federal, state and local laws.
- 23. To the extent that any term or condition of this permit is deemed to be inconsistent, or in conflict, with any term or condition of Permit to Construct No. 148-5-WP issued on 1/2/86, including any modifications thereto, or with any data or information contained in the application, or any other documents incorporated by reference in this permit, the terms and conditions of this permit shall control and remain enforceable against the Co-Permittees.
- 24. This permit shall expire five (5) years from the date of issuance and may be revoked, suspended, modified, renewed, or transferred in accordance with applicable laws.


Issued on this 10<sup>th</sup> day of January 2006.

By   
Gina McCarthy  
Commissioner

Permit to Operate No. 1480694 -PO

Administrative Note  
Application No. 200301666  
CRRR - Certified Mail # 7002 2030 0006 5681 7795  
CPW - Certified Mail # 7002 2030 0006 5681 7801

**Certified to be a true copy of a document in the files  
of the Department of Environmental Protection, Waste  
Management Bureau.**

Name:   
Title: Secretary  
Date: January 20, 2006



