

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2016

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts (CCBs) that were managed in the State of Maryland during calendar year 2016. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. *Note that the form for this year requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate.* Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at ed.dexter@maryland.gov.

I. Background. This requirement that generators of CCBs submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

II. General Information and Applicability.

A. Definitions. CCBs are defined in COMAR 26.04.10.02B as:

“(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.

(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods.”

A generator of CCBs is defined in COMAR 26.04.10.02B as:

“(9) Generator.

(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.

(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence.”

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Facility Name: C. P. Crane Generating Station **CCB Tonnage Report – 2016**

B. Applicability. If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, “you” shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year. **THIS INCLUDES CCBS THAT WERE NOT SEPARATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

III. Required Information. The following information must be provided to the Department by March 1, 2016:

A. Contact information:

Facility Name: C. P. Crane

Name of Permit Holder: C. P. Crane LLC

Facility Address: 1001 Carroll Island Road
Street

Facility Address: Chase Maryland 21220
City State Zip

County: Baltimore County

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 410-682-9797 Facility Fax No.: 410-682-9805

Contact Name: Joshua Sawyers

Contact Title: Environmental

Contact Address: 1001 Carroll Island Road
Street

Contact Address: Chase Maryland 21220
City State Zip

Contact Email: jsawyers@cpcranepower.com

Contact Telephone No.: 410-682-9715 Contact Fax No.: 410-682-9805

For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315

B. A description of the process that generates the CCBs, including the type of coal or other raw material that generates the CCBs. If the space provided is insufficient, please attach additional pages:

The C. P. Crane electric generating facility has two coal fired units which produce electricity for commercial sale. Unit 1 is equipped with a Babcock & Wilcox once-through subcritical, cyclone-fired, wet bottom boiler, and Unit 2 is equipped with a Babcock & Wilcox drum-type, cyclone-fired, wet bottom boiler. Both units burn sub-bituminous coal alone, or in combination with bituminous coal. Coal is transported to the plant by rail and stored in a pile adjacent to the plant. The coal is prepared for use by two Pennsylvania Crusher hammer-mill type crushers. Before crushing, limestone may be added to aid slag flow. After crushing, a proprietary additive, Cyclean may be added also to the coal to aid in slag flow and reduce mercury in the flue gas.

The CCB handling process is the same for both units. Boiler slag (a.k.a. bottom ash) created by the combustion process is recovered from the bottom of the boilers and stored in de-watering bins. Heavier fly ash particles in the flue gas stream drop into hoppers below the air heaters, are removed by vacuum truck, and transported to a temporary storage area on site. Finer particulate fly ash is captured on fabric bags in bag houses downstream of the air heaters and falls to storage hoppers below before being pneumatically conveyed from the hoppers to storage silos. All types of CCBs are eventually loaded onto trucks and sent off site for beneficial reuse or disposal.

C. The volume and weight of CCBs generated during calendar year 2016, including an identification of the different types of CCBs generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

Table I: Volume and Weight of CCBs Generated for Calendar Year 2016: Please note the change to this table from previous years, to include both the volume and weight of the types of CCBs your facility produces.

Volume and Weight of CCBs Generated for Calendar Year 2016			
Fly Ash	Boiler Slag	----	----
Type of CCB	Type of CCB	Type of CCB	Type of CCB
19,757	5,025	----	----
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
14,670	3,731	----	----
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

Coal combustion byproducts (“CCB”) are reported in dry tons. Cubic yards are calculated using a conversion factor of 1 ton = 1.3468 cubic yards.

D. Descriptions of any modeling or risk assessments, or both, conducted relating to the CCBs or their use that were performed by you or your company during the reporting year. Please attach this information to the report.

No modeling or risk assessments were conducted during 2016.

E. Copies of all laboratory reports of all chemical characterizations of the CCBs. Please attach this information to the report.

F. A description of how you disposed of or used your CCBs in calendar year 2016, identifying:
(a) The types and volume of CCBs disposed of or used (if different than described in Paragraph C above) including any CCBs stored during the previous calendar year, the location of disposal, mine reclamation and use sites, and the type and volume of CCBs disposed of or used at each site:

Fly Ash – Disposal

3,542 tons (4,770 CY) of fly ash was landfilled at Fort Armistead Road – Lot 15 Landfill in Baltimore, MD.

Fly Ash – Beneficial Reuse

11,128 tons (14,987 CY) of fly ash was beneficially reused as ADC (active daily cover) by Waste Management at their King George County Landfill in Virginia.

Bottom Ash (Boiler Slag) - Disposal

345 tons (465 CY) of boiler slag was landfilled at Fort Armistead Road – Lot 15 Landfill in Baltimore, MD.

Bottom Ash (Boiler Slag) – Beneficial Reuse

3,386 tons (4,560 CY) of bottom ash was beneficially reused as ADC by Waste Management at their King George County Landfill in Virginia.

and (b) The different uses by type and volume of CCBs:

See (a) above.

If the space provided is insufficient, please attach additional pages in a similar format.

G. A description of how you intend to dispose of or use CCBs in the next 5 years, identifying:

(a) The types and volume of CCBs intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of CCBs intended to be disposed of or used at each site:

Fly Ash

A projected 14,000 tons (18,855 CY) of fly ash that may be generated annually over the next 3 years will be beneficially reused as ADC by Waste Management

Facility Name: C. P. Crane Generating Station **CCB Tonnage Report – 2016**

at their King George County Landfill in Virginia. We intend to cut this projected amount in half after 3 years.

Boiler Slag

A projected 4,000 tons (5,387 CY) of fly ash that may be generated annually over the next 3 years will be beneficially reused as ADC by Waste Management at their King George County Landfill in Virginia. We intend to cut this projected amount in half after 3 years.

and (b) The different intended uses by type and volume of CCBs.


Fly Ash

A projected 14,000 tons (18,855 CY) of fly ash that may be generated annually over the next 3 years will be beneficially reused as ADC (active daily cover) by Waste Management at their King George County Landfill in Virginia. We intend to cut this projected amount in half after 3 years.

Boiler Slag

A projected 4,000 tons (5,387 CY) of fly ash that may be generated annually over the next 3 years will be beneficially reused as ADC (active daily cover) by Waste Management at their King George County Landfill in Virginia. We intend to cut this projected amount in half after 3 years.

IV. Signature and Certification. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.		
 Signature	John Forbes Authorized Representative, C.P. Crane LLC 410-682-9701 Name, Title, & Telephone No. (Print or Type) jforbes@cpcranepower.com Your Email Address	2/27/17 Date

V: Attachments (please list):

1. Certificate of Analysis Report No. 16071109

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LAND MANAGEMENT ADMIN.
SOLID WASTE PROGRAM

Analytical Report for

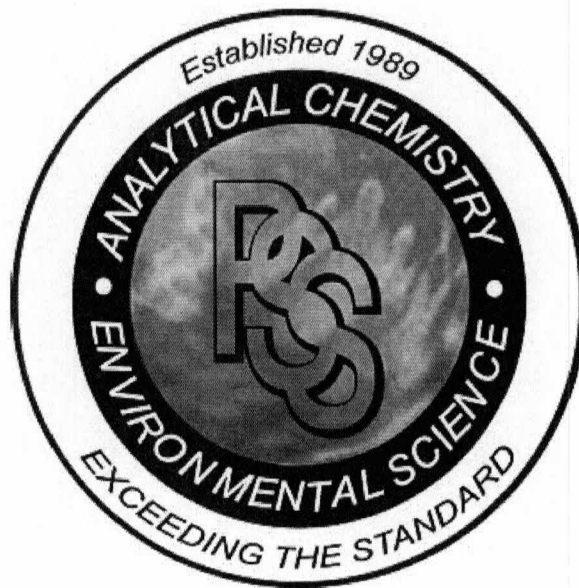
C.P. Crane LLC

Certificate of Analysis No.: 16071109

Project Manager: Joshua Sawyers

Project Name : Annual TCLP 6-16

Project Location: Carroll Island Road, MD



July 18, 2016

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

Phone: (410) 747-8770

Fax: (410) 788-8723

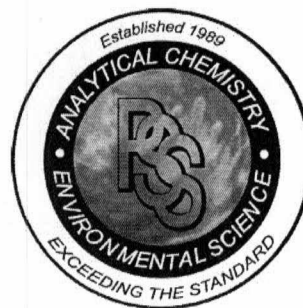
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LAND MANAGEMENT AD
SOLID WASTE PROGRA

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



July 18, 2016

Joshua Sawyers
C.P. Crane LLC
1001 Carroll Island Rd
Baltimore, MD 21220

Reference: PSS Work Order(s) No: **16071109**
Project Name: Annual TCLP 6-16
Project Location: Carroll Island Road, MD

Dear Joshua Sawyers :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16071109**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on August 15, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Cathy Thompson', is written over a horizontal line.

Cathy Thompson
QA Officer



Sample Summary
Client Name: C.P. Crane LLC
Project Name: Annual TCLP 6-16

Work Order Number(s): 16071109

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/11/2016 at 01:05 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16071109-001	CPC-TCLP-FA	SOLID	06/22/16 10:20
16071109-002	CPC-TCLP-BA	SOLID	06/22/16 10:40

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

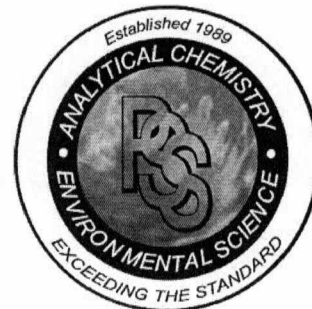
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
 6630 BALTIMORE NATIONAL PIKE
 ROUTE 40 WEST
 BALTIMORE, MD 21228
 410-747-8770
 800-932-9047
 FAX 410-788-8723

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CERTIFICATE OF ANALYSIS

No: 16071109
 C.P. Crane LLC, Baltimore, MD
 July 18, 2016

Project Name: Annual TCLP 6-16
 Project Location: Carroll Island Road, MD

Sample ID: CPC-TCLP-FA **Date/Time Sampled: 06/22/2016 10:20** **PSS Sample ID: 16071109-001**
Matrix: SOLID **Date/Time Received: 07/11/2016 13:05**

TCLP Metals Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	TCLP Limit	Prepared	Analyzed	Analyst
Arsenic	0.094	mg/L	0.050		1	5	07/14/16	07/15/16 17:39	1033
Barium	ND	mg/L	1.0		1	100	07/14/16	07/15/16 17:39	1033
Cadmium	ND	mg/L	0.050		1	1	07/14/16	07/15/16 17:39	1033
Chromium	ND	mg/L	0.050		1	5	07/14/16	07/15/16 17:39	1033
Lead	ND	mg/L	0.050		1	5	07/14/16	07/15/16 17:39	1033
Mercury	ND	mg/L	0.0020		1	0.2	07/14/16	07/15/16 17:39	1033
Selenium	0.19	mg/L	0.050		1	1	07/14/16	07/15/16 17:39	1033
Silver	ND	mg/L	0.050		1	5	07/14/16	07/15/16 17:39	1033

Sample ID: CPC-TCLP-BA **Date/Time Sampled: 06/22/2016 10:40** **PSS Sample ID: 16071109-002**
Matrix: SOLID **Date/Time Received: 07/11/2016 13:05**

TCLP Metals Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	TCLP Limit	Prepared	Analyzed	Analyst
Arsenic	ND	mg/L	0.050		1	5	07/14/16	07/15/16 18:09	1033
Barium	1.4	mg/L	1.0		1	100	07/14/16	07/15/16 18:09	1033
Cadmium	ND	mg/L	0.050		1	1	07/14/16	07/15/16 18:09	1033
Chromium	ND	mg/L	0.050		1	5	07/14/16	07/15/16 18:09	1033
Lead	ND	mg/L	0.050		1	5	07/14/16	07/15/16 18:09	1033
Mercury	ND	mg/L	0.0020		1	0.2	07/14/16	07/15/16 18:09	1033
Selenium	ND	mg/L	0.050		1	1	07/14/16	07/15/16 18:09	1033
Silver	ND	mg/L	0.050		1	5	07/14/16	07/15/16 18:09	1033



Case Narrative Summary

Client Name: C.P. Crane LLC

Project Name: Annual TCLP 6-16

Work Order Number(s): 16071109

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

TCLP Metals

Batch: 134289

Matrix spike and/or matrix spike duplicate (MS/MSD) exceedances identified; see MS summary form. Intermediate and closing CCV's have a silver recovery of 88% and 86% respectively, which is below the control limits of 90-110%. The corresponding low level CCV's have acceptable recovery for silver and samples are non-detect.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16071109

Report Prepared For: C.P. Crane LLC, Baltimore, MD

Project Name: Annual TCLP 6-16

Project Manager: Joshua Sawyers

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 6020 A	CPC-TCLP-FA	Initial	16071109-001	1033	W	61684	134289	06/22/2016	07/14/2016 11:04	07/15/2016 17:39
	CPC-TCLP-BA	Initial	16071109-002	1033	W	61684	134289	06/22/2016	07/14/2016 11:04	07/15/2016 18:09
	61684-1-BKS	BKS	61684-1-BKS	1033	W	61684	134289	-----	07/14/2016 11:04	07/15/2016 17:32
	61684-1-BLK	BLK	61684-1-BLK	1033	W	61684	134289	-----	07/14/2016 11:04	07/15/2016 17:26
	CPC-TCLP-FA S	MS	16071109-001 S	1033	W	61684	134289	06/22/2016	07/14/2016 11:04	07/15/2016 17:45
	CPC-TCLP-FA SD	MSD	16071109-001 SD	1033	W	61684	134289	06/22/2016	07/14/2016 11:04	07/15/2016 17:51

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QC Summary 16071109

C.P. Crane LLC
Annual TCLP 6-16

Analytical Method: SW-846 6020 A

Seq Number: 134289

MB Sample Id: 61684-1-BLK

Matrix: Water

LCS Sample Id: 61684-1-BKS

Prep Method: SW3010A

Date Prep: 07/14/16

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.05000	0.4000	0.4197	105	80-120	mg/L	07/15/16 17:32	
Barium	<1.000	2.000	2.227	111	80-120	mg/L	07/15/16 17:32	
Cadmium	<0.05000	0.4000	0.4052	101	80-120	mg/L	07/15/16 17:32	
Chromium	<0.05000	0.4000	0.3953	99	80-120	mg/L	07/15/16 17:32	
Lead	<0.05000	0.4000	0.4087	102	80-120	mg/L	07/15/16 17:32	
Mercury	<0.002000	0.01000	0.01040	104	80-120	mg/L	07/15/16 17:32	
Selenium	<0.05000	0.4000	0.4016	100	80-120	mg/L	07/15/16 17:32	
Silver	<0.05000	0.4000	0.4093	102	80-120	mg/L	07/15/16 17:32	

Analytical Method: SW-846 6020 A

Seq Number: 134289

Parent Sample Id: 16071109-001

Matrix: Solid

MS Sample Id: 16071109-001 S

Prep Method: SW3010A

Date Prep: 07/14/16

MSD Sample Id: 16071109-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.09420	0.4000	0.5313	109	0.5012	102	75-125	6	25	mg/L	07/15/16 17:45	
Barium	<1.000	2.000	2.567	128	2.451	123	75-125	5	25	mg/L	07/15/16 17:45	X
Cadmium	<0.05000	0.4000	0.4081	102	0.3887	97	75-125	5	25	mg/L	07/15/16 17:45	
Chromium	<0.05000	0.4000	0.4003	100	0.3801	95	75-125	5	25	mg/L	07/15/16 17:45	
Lead	<0.05000	0.4000	0.4105	103	0.3921	98	75-125	5	25	mg/L	07/15/16 17:45	
Mercury	<0.002000	0.01000	0.01100	110	0.01080	108	75-125	2	25	mg/L	07/15/16 17:45	
Selenium	0.1877	0.4000	0.5969	102	0.5514	91	75-125	8	25	mg/L	07/15/16 17:45	
Silver	<0.05000	0.4000	0.4112	103	0.3828	96	75-125	7	25	mg/L	07/15/16 17:45	

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H = Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16071109	Received By	Rachel Davis
Client Name	C.P. Crane LLC	Date Received	07/11/2016 01:05:00 PM
Project Name	Annual TCLP 6-16	Delivered By	Trans Time Express
Disposal Date	08/15/2016	Tracking No	Not Applicable
		Logged In By	Thomas Wingate

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	5
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	<u>Sawyers</u>
Chain of Custody	Yes	MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 2

Total No. of Containers Received 2

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Thomas Wingate

Date: 07/11/2016

PM Review and Approval:

Lynn Jackson

Date: 07/11/2016