### MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land and Materials Administration • Solid Waste Program

1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719

410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

FEB 26 2019

LAND MANAGEMENT ADMIN SOLID WASTE PROGRAM

### Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2018

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 2018. 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 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."

Facility Name:	C.P. Crane LLC	CCB Tonnage Report – 2018

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, 2018:

A. Contact information:		
Facility Name: C. P. Crane		
Name of Permit Holder: C. P. Crane	LLC	
Facility Address: 1001 Carroll Islan	nd Road	
Second Section Contraction (Contraction)	Street	
Facility Address: Chase	Maryland	21220
City	State	Zip
County: Baltimore County	1111	
Contact Information (Person filing report or E	Environmental Manager)	
Facility Telephone No.: 410 682-970		
Contact Name: Kenneth McGreev		
17 V 18 V 17 V 17 V 17 V 18 V 18 V 18 V	XX	
Contact Title: Plant General Man	ager	
Contact Address: 1001 Carroll Islan	nd Rd	
	Street	and the continue of the safe
Contact Address: Chase	Maryland	21220
City	State	Zip
Contact Email: Kmcgreevy@cpcran	epower.com	
Contact Telephone No.: 410 682-970	3 Contact Fax No.: NA	

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

Facility Name:	C.P. Crane LLC	CCB Tonnage Report – 2018
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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 sub-critical, cyclone-fired, wet bottom boiler, and Unit 2 is equipped with a B&W 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 cas. The CCB handling process is

C. The volume and weight of CCBs generated during calendar year 2018, 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 2018: Please note that this table includes both the volume and weight of the types of CCBs your facility produces.

<u>Volume</u>	and Weight of CCBs Ge	enerated for Calendar Y	<u>'ear 2018</u>
Fly Ash	Bottom Ash		
Type of CCB	Type of CCB	Type of CCB	Type of CCB
16,089 Volume of CCB, in Cubic Yards	4,671 Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
11,946.2 Weight of CCB, in Tons	3,468.3 Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

15- Jan-19

TTY Users: 800-735-2258

Facility Name: C.P. Crane LLC CCB Tonnage Report - 2018

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.
- 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 2018, 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 – Beneficial Reuse 11,946.2 tons (16,089 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) – Beneficial Reuse 3,468.3 tons (4,671CY) of bottom ash was beneficially reused as ADC by Waste Management at their King George County Landfill in Virginia.

Facility Name:	C.P. Crane LLC	CCB Tonnage Report – 2018
and (b) The diff	Ferent uses by type and volum	me of CCBs:
See (a) above		
		1 1, 2, 3
If the space prov	vided is insufficient, please :	attach additional pages in a similar format.
		ose of or use CCBs in the next 5 years, identifying:
intended disposa	ypes and volume of CCBs i al, mine reclamation and use or used at each site:	ntended to be disposed of or used, the location of sites, and the type and volume of CCBs intended to
Plant was de-a	activated June 1, 2018 an	d no longer in commercial operation.
and (b) The diff	erent intended uses by type	and volume of CCBs.
-		
If the space prov	vided is insufficient, please a	attach additional pages in a similar format.

Facility Name:	C.P. Crane LLC	CCB Tonnage Report - 2013
racinty rvanie.		CCD Tonnage Report = 2013

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:

at, to the best of my knowledge, the information contained in nents are true, accurate, and complete.	this report and
Kenneth McGreevy Plant General Manager 410 682-9703	2/25/19
Name, Title, & Telephone No. (Print or Type)	Date
Kmcgreevy@cpcranepower.com	
Your Email Address	

### V: Attachments (please list):

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			86

### **Analytical Report for**

C.P. Crane LLC

Certificate of Analysis No.: 18011018

Project Manager: Joshua Sawyers
Project Name: Annual BHB TCLP 1-18
Project Location: Carroll Island Road, MD



January 17, 2018
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

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.



January 17, 2018

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

Reference: PSS Work Order(s) No: 18011018

Project Name: Annual BHB TCLP 1-18 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 18011018.

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 February 14, 2018, 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,

Dan Prucnal

Laboratory Manager



### Sample Summary

### Client Name: C.P. Crane LLC Project Name: Annual BHB TCLP 1-18

Work Order Number(s):

18011018

The following samples were received under chain of custody by Phase Separation Science (PSS) on 01/10/2018 at 12:05 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected	
18011018-001	BHB18	SOLID	01/03/18 10:20	

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

- 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.
- 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.
- 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 contaminates, and part 141.3, for the secondary drinking water contaminates.
- 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)].
- 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. Alkalimity 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.
- MDI. 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

### PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 18011018

C.P. Crane LLC, Baltimore, MD

January 17, 2018

Project Name: Annual BHB TCLP 1-18 Project Location: Carroll Island Road, MD

Sample ID: BHB18 Matrix: SOLID			Sampled: Received:				SS Sampl	e ID: 18011018	3-001			
TCLP Metals		Analytical Method: SW-846 6020 A			Preparation Method: 3010A							
	Result	Units	RL	Flag	DILTC	LP Limit	Prepared	Analyzed	Analyst			
Arsenic	ND	mg/L	0.050		1	5	01/11/18	01/11/18 19:26	1051			
Barium	ND	mg/L	1.0		1	100	01/11/18	01/11/18 19:26	1051			
Cadmium	ND	mg/L	0.050		1	1	01/11/18	01/11/18 19:26	1051			
Chromium	ND	mg/L	0.050		1	5	01/11/18	01/11/18 19:26	1051			
Lead	ND	mg/L	0.050		1	5	01/11/18	01/11/18 19:26	1051			
Mercury	ND	mg/L	0.0020		1	0.2	01/11/18	01/11/18 19:26	1051			
Selenium	ND	mg/L	0.050		1	1	01/11/18	01/12/18 17:57	1051			
Silver	ND	mg/L	0.050		1	5	01/11/18	01/11/18 19:26	1051			



### **Case Narrative Summary**

Client Name: C.P. Crane LLC

Project Name: Annual BHB TCLP 1-18

Work Order Number(s): 18011018

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:

Sample mass received for sample not sufficient to meet requirements as stated in section 7.2.1 of EPA Method 1311, Toxicity Characteristic Leaching Procedure.

### General Comments:

Sample does not meet particle size requirements as stated in section 7.1.3 of EPA Method 1311, Toxicity Characteristic Leaching Procedure.

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): 18011018

Report Prepared For: C.P. Crane LLC, Baltimore, MD Project Name: Annual BHB TCLP 1-18

Project Manager: Joshua Sawyers

Method	Client Sample Id	Analysis Type	Client Sample Id Analysis Type Lab Sample Id Analyst Mtx	Analyst	Mfx	Prep Batch	Prep Batch Analytical Batch Sampled	Sampled	Prepared	Analyzed
SW-846 6020 A	BHB18	Initial	18011018-001	1051	W	69480	149533	01/03/2018	01/11/2018 09:37	01/11/2018 19:26
	69480-1-BKS	BKS	69480-1-BKS	105]	.M.	08769	149533	-	01/11/2018 09:37	01/11/2018 18:27
	69480-1-BLK	BLK	69480-1-BLK	1051	'n.	69480	149533	-	01/11/2018 09:37	01/11/2018 18:24
	173120212 S	MS	18011003-001 S	1001	×	69480	149533	12/28/2017	01/11/2018 09:37	01/11/2018 18:35
	173120212 SD	MSD	18011003-001 SD	1051	A	69480	149533	12/28/2017	01/11/2018 09:37	01/11/2018 18:37
	69480-1-BKS	Reanalysis	69480-1-BKS	1051	M	69480	149537		01/11/2018 09:37	01/12/2018 14:55
	69480-1-BLK	Reanalysis	69480-1-BLK	1051	W	69480	149537	-	01/11/2018 09:37	01/12/2018 15:34
	BHB18	Reanalysis	18011018-001	1051	M	69480	149551	01/03/2018	01/11/2018 09:37	01/12/2018 17:57

### PHASE SEPARATION SCIENCE, INC.

QC Summary 18011018

### C.P. Crane LLC Annual BHB TCLP 1-18

<b>Analytical Method</b>	d: SW-846 6020 A					Prep Method:	SW	3010A	
Seq Number:	149533			Matrix:	Water	Date Prep:	01/	11/18	
MB Sample Id:	69480-1-BLK		LCS San	nple Id:	69480-1-BKS				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Uı	nits	Analysis Date	Flag
Arsenic	<0.05000	0.4000	0.4173	104	80-120	m	g/L	01/11/18 18:27	
Barium	<1.000	2.000	1.928	96	80-120	m	g/L	01/11/18 18:27	
Cadmium	< 0.05000	0.4000	0.3955	99	80-120	m	g/L	01/11/18 18:27	
Chromlum	< 0.05000	0.4000	0.4052	101	80-120	m	g/L	01/11/18 18:27	
Lead	< 0.05000	0.4000	0.3850	96	80-120	m	g/L	01/11/18 18:27	
Mercury	<0.002000	0.01000	0.01034	103	80-120	m	g/L	01/11/18 18:27	
Selenium	< 0.05000	0.4000	0.4157	104	80-120	m	g/L	01/12/18 14:55	
Silver	<0.05000	0.4000	0.4396	110	80-120	m	g/L	01/11/18 18:27	

Analytical N	Method: SW	-846 6020 A
--------------	------------	-------------

Seq Number: 149537 REBLK Sample Id: 69480-1-BLK

Matrix: Water LCS Sample Id: 69480-1-BKS Prep Method: SW3010A Date Prep: 01/11/18

reper ouripio id. oo id	O I DEIL		1507 550		NO 10 NO 10 10 10 10 10 10 10 10 10 10 10 10 10			
Parameter	REBLK Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	< 0.05000	0.4000	0.3974	99	75-125	mg/L	01/12/18 14:55	i
Barium	<1.000	0.4000	2.028	507	75-125	mg/L	01/12/18 14:55	;
Cadmium	< 0.05000	0.4000	0.3979	99	75-125	mg/L	01/12/18 14:55	i
Chromium	< 0.05000	0.4000	0.3894	97	75-125	mg/L	01/12/18 14:55	i
Lead	< 0.05000	0.4000	0.4048	101	75-125	mg/L	01/12/18 14:55	5
Mercury	< 0.002000	0.01000	0.009110	91	75-125	mg/L	01/12/18 14:55	5
Silver	< 0.05000	0.4000	0.3931	98	75-125	mg/L	01/12/18 14:55	5

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

### THE TANK INVESTIGATION

# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com email: info@phaseonline.com

PROJECT MOSE JOSHURA SANYETS PHONE NO. 443-934-4990 MARGINER IN PROJECT MOSE JOSHURA SANYETS SANYETS PHONE NO. 443-934-4990 MARGINER IN PROJECT MOSE JOSHURA SANYETS SANYETS SANYETS SANYETS PHONE NO. 46 P. 26 P	CLIENT: C. P. Crane		OFFICE	OFFICE LOC. C. P. Crane	. Crane		PSSW	PSS Work Order #:	3r#:	18011018	0 18			PAGE 1	OF 1
SAMPLE DE ATTURIS BHB TCLP 1-18  PROLECT NAME: Annual BHB TCLP 1-18  PROLECT NAME: Annual BHB TCLP 1-18  SAMPLE NO. :	PROJECT MGR. JOShua	Sawyers	PHONE	NO. 443-	934-499(	0	SW-Sur	face With E	W-Crinking	WH GW-Gr	Wall With M	W-Waste W	S=8 HO=0.4	of WL-Waste Lin	uid WS-Waste Solid W- Wi
SAMPLESS SAWYERS SAWYERS  SAMPLESS SAWYERS  SAMPLESS SAWYERS  SHERT SAMPLES SAWYERS  SHERT SAMPLESS SAWYERS  SHERT SAWYERS  SH	EMAIL: jsawyers@cpcra	anepower.co	TFAX NO				g o c	SAMPLE			+		-		Deed
SAMPLERS: Sawyers  SAMPLERS: Sawyers  DAN CERT NO.:    Companies	PROJECT NAME: Annua	BHB TCL	5 1-18	PRO.	ECT NO.:		)ZF	TYPE							100
SAMPLERS. SAWYERS   DW CERT NO.:   E GRAB   C	SITE LOCATION: Carroll	Island Roa	d, MD	P.O. P	:0:		< −	COMP	0.00		Ħ				Analysis,
BHB18	SAMPLERS: Sawyers			220.00			zш	GBAB	1984		-		Į.		Required
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Date Time Received By: Special Instructions:	Relipersished By: (2)	1		Time	Received	N. T.			Data De	Day L	Emerge Required	75		Present: Ah	Zemp:
Date Time Received By:	Jam Carte	00		(2305	3	Wel	ſ		V				15	ipping Carrier.	4
Date Time	Relinquished By: (3)			Time	Received	By:			Special	Instruction	.;; [2]				
	Relinquished Byr. (4)	0	ate	Time	Received	By:									

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723



### Phase Separation Science, Inc

### Sample Receipt Checklist

Work Order#	18011018		Received By	Barb Web	er
Client Name	C.P. Crane LLC		Date Received	01/10/2018	8 12:05:00 PM
Project Name	Annual BHB TCLP 1	-18	Delivered By	Trans Tim	e Express
Disposal Date	02/14/2018		Tracking No	Not Applica	ble
			Logged In By	Thomas W	/ingate
Shipping Conta			with a server and a server and a server a server a server a server and a server a server and a server a server		TOTAL SAN ALL
			Ice	A	bsent
Custody Seal(	s) Intact?	N/A	Temp (deg (		9
Seal(s) Signed	d / Dated?	N/A	Temp Blank	Present N	lo
Documentation	15		Sampler Na	me los	hua Sawyers
COC agrees v	vith sample labels?	Yes	MD DW Cer	SE SELECTION SECTION	The second secon
Chain of Cust	ody	Yes	MD DVV CC	1.110. 11/	2
Sample Contai	ner		Custody Sea	al(s) Intact?	Not Applicable
Appropriate for	or Specified Analysis?	Yes	Seal(s) Sign		Not Applicable
Intact?		Yes	Seal(s) Sign	ed / Dated	Not Applicable
Labeled and L	abels Legible?	Yes			
Total No. of S	amples Received 1		Total No. of	Containers	Received 1
Preservation					
Total Metals			(pl	H<2)	N/A
Dissolved Met	tals, filtered within 15 m	inutes of collection	on (pt	H<2)	N/A
Orthophospho	orus, filtered within 15 n	ninutes of collection	on		N/A
Cyanides			(pl	H>12)	N/A
Sulfide			(ph	H>9)	N/A
TOC, DOC (fi	eld filtered), COD, Phe	nols	200.00	1<2)	N/A
TOX, TKN, N	H3, Total Phos		17.5	H<2)	N/A
성당하다 없었다. [165] [165] [165] [165]	VOA Vials Rcvd Preser		lq)	<del>1</del> <2)	N/A
	have zero headspace?				N/A
경험하면서 차게 대리되었다. 취임시장에	vd at least one unprese	erved VOA vial)			N/A
524 VOC (Rc	vd with trip blanks)		(pł	H<2)	N/A
Comments: (A	Any "No" response	must be detaile	ed in the comm	ents sect	ion below.)
documentation of should be analy- preservation sho hand delivered of	er preservation conditions of any client notification a zed as soon as possible, p all be considered accepta on the day that they are col e chilling process has begi	s well as client inst preferably in the fiel ble when received a lected may not meet	ructions. Samples of at the time of same at a temperature about these criteria but shape and a second secon	for pH, chlori pling. Sampl ove freezing !	ne and dissolved oxygen les which require thermal to 6"C. Samples that are
Sample mass re Method 1311, T	eceived for sample not oxicity Characteristic L	sufficient to meet eaching Procedu	requirements as re.	stated in se	ction 7.2.1 of EPA
Samples Inspecte	d/Checklist Completed By:	Thomas W	/ingate	Date: 01/10/2	018
	PM Review and Approval:	NY Jacks Lynn Jac	or O	Date: 01/10/2	018

Version 1.000