PBS | Engineering + Environmental

November 22, 2016

Jeremy Miller
Maintenance Manager
Department of Administrative Services
Enterprise Asset Management Division
1225 Ferry Street SE
Salem, Oregon 97301

Via email: Jeremy.W.MILLER@oregon.gov

Regarding: Drinking Water Sampling for Lead
Agriculture Building
635 Capitol Street NE
Salem, Oregon 97301
PBS Project #: 25103.003 Phase 0001

Dear Mr. Miller:

On October 10, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Agriculture building located at 635 Capitol Street NE in Salem, Oregon. The testing was requested by State of Oregon Department of Administrative Services in an effort to ensure that concentrations of lead in drinking water remain below the EPA action level.

Sampling methodology and the interpretation of laboratory results were based on the EPA Lead and Copper Rule (LCR). Following LCR sampling guidelines, PBS collected the first 1000 milliliters (mL) of water from each test location (first draw) early in the morning following an overnight stagnation period. The LCR's stagnation period, and sampling protocol specifying the first 1000 mL samples, is designed to maximize the likelihood that the highest concentrations of lead are identified in water used for consumption. At each sample location, immediately following first draw sampling, a flush sample was collected after the water had been allowed to run for 30 seconds.

The water sampling process was supervised by a certified industrial hygienist (CIH) who is also an Oregon Health Authority certified lead risk assessor.

The action level set by the EPA for lead is 15 parts per billion (ppb). If the action level is exceeded in more than 10 percent of taps sampled, then action must be taken to control plumbing-material corrosion.

Thirty-two first draw and flush drinking water samples were collected and delivered under chain of custody to BSK Laboratories in Vancouver, Washington for lead analysis. Initially, only first draw samples were analyzed. Any first draw sample that exceeded the EPA action level for lead had its associated flush sample analyzed.

Concentrations of lead in the first draw samples ranged from none detected to 2.1 ppb. Laboratory analysis indicates that all of these drinking water samples contained lead at concentrations below the EPA action level of 15 ppb.

The following table presents all first draw sample locations and lead concentrations in ppb.

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free
www.pbsenv.com

Bend | Boise | Coos Bay | Eugene | Portland | Seattle | Tri-Cities | Vancouver | Walla Walla

First Draw Drinking Water Sample Locations and Lead Concentrations

Sample Number	Sample Location	Lead Concentration (ppb)
SK-AB-001-FD	Room 343 natural resources / pesticides kitchenette, third floor kitchen sink	ND
SK-AB-003-FD	Director's office kitchenette, third floor sink adjacent to room 321	ND
SK-AB-005-FD	Suite 350 kitchenette, third floor kitchen sink	ND
WF-AB-007-FD	Upper water fountain hallway across from room 343 third floor	ND
WF-AB-009-FD	Lower water fountain hallway across from room 343 third floor	ND
SK-AB-011-FD	Suite 250 kitchenette second floor kitchen sink	ND
WF-AB-013-FD	Upper water fountain, hallway across from restrooms adjacent to plant lab, second floor	ND
WF-AB-015-FD	Lower water fountain, hallway across from restrooms adjacent to plant lab second floor	ND
SK-AB-017-FD	Room 115 admin services kitchenette sink first floor	ND
SK-AB-019-FD	Suite 150 C management kitchen sink first floor	ND
WF-AB-021-FD	Upper water fountain hallway across from cashier office first floor	ND
WF-AB-023-FD	Lower water fountain hallway across from cashier office first floor	ND
WF-AB-025-FD	Upper water fountain hallway across from sanitation engineer office in basement	ND
WF-AB-027-FD	Lower water fountain hallway across from sanitation engineer office in basement	ND
SK-AB-029-FD	Conference room D basement kitchen sink	2.1
SK-AB-031-FD	Break room kitchenette sink, basement	ND

ND: None Detected

Please refer to the attached Chain of Custody form and laboratory data for greater details. It should be noted that quality control (QC) sample results are included at the end of laboratory information. The QC samples are both laboratory blanks and spiked samples used internally by the laboratory to assess accuracy.

Please feel free to contact me at 503.417.7602 or derek.may@pbsenv.com with any questions or comments.

Sincerely,
PBS Engineering and Environmental Inc.

Derek May, Principal

Attachments: Laboratory Results
Chain of Custody Form

DM::bmp

BSK Associates Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (FAX)

A6J1691
10/25/2016

Derek May
PBS Environmental
4412 SW Corbett Ave
Portland, OR 97239

RE: Report for A6J1691 Oregon DAS - Lead

Dear Derek May,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 10/13/2016. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Debra Karlsson , at 559-497-2888.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Debra Karlsson, Project Coordinator

Accredited in Accordance with NELAP
ORELAP #4021

BSK ASSOCIATES

Case Narrative

Project and Report Details		Invoice Details	
Client:	PBS Environmental	**Invoice To:**	PBS Environmental
Report To:	Derek May	**Invoice Attn:**	Accounts Payable
Project #:	Agriculture Building #25103.003 PH 1	**Project PO#:**	-
Received:	10/13/2016 - 09:00		
Report Due:	10/27/2016		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 20.2

Containers Intact
COC/Labels Agree
Received with no thermal preservation.
Sample(s) split after receipt at the laboratory.
Initial receipt at BSK-VAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	

Certificate of Analysis

Sample ID: A6J1691-01
Sampled By: Client
Sample Description: SK-AB-001-FD // Room 343 Natural resources/Pesticides kitchenette, 3rd Floor kitchen sink

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-03
Sampled By: Client
Sample Description: SK-AB-003-FD // Directors office kitchenette 3rd Floor sink adjacent to Rm 321

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-05
Sampled By: Client
Sample Description: SK-AB-005-FD // Suite 350 kitchenette 3rd Floor kitchen sink

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-07
Sampled By: Client
Sample Description: WF-AB-007-FD // Upper water fountain hallway across Rm 343 3rd Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-09
Sampled By: Client
Sample Description: WF-AB-009-FD // Lower water fountain hallway across Rm 343 3rd Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-11
Sampled By: Client
Sample Description: SK-AB-011-FD // Suite 250 kitchenette 2nd Floor kitchen sink

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-13
Sampled By: Client
Sample Description: WF-AB-013-FD // Upper water fountain hallway across restrooms adjacent to plant lab 2nd Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-15
Sampled By: Client
Sample Description: WF-AB-015-FD // Lower water fountain hallway across restrooms adjacent to plant lab 2nd Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-17
Sampled By: Client
Sample Description: SK-AB-017-FD // Room 115 Admin services kitchenette kitchen sink 1st Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-19
Sampled By: Client
Sample Description: SK-AB-019-FD // Suite 150 C. Management kitchen sink 1st Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-21
Sampled By: Client
Sample Description: WF-AB-021-FD // Upper water fountain hallway across cashier office 1st Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-23
Sampled By: Client
Sample Description: WF-AB-023-FD // Lower water fountain hallway across cashier office 1st Floor

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-25
Sampled By: Client
Sample Description: WF-AB-025-FD // Upper water fountain hallway across sanitation engieer office in basement

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-27
Sampled By: Client
Sample Description: WF-AB-027-FD // Lower water fountain hallway across sanitation engineer office in basement

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-29
Sampled By: Client
Sample Description: SK-AB-029-FD // Conference Room D basement kitchen sink

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	**0.0021**	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

Certificate of Analysis

Sample ID: A6J1691-31
Sampled By: Client
Sample Description: SK-AB-031-FD // Breakroom kitchenette basement kitchen sink

Sample Date - Time: 10/10/16 - 00:00
Matrix: Drinking Water
Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614379	10/19/16	10/19/16	

BSK Associates Fresno

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A614379										Prepared: 10/19/2016	
Prep Method: EPA 200.2										Analyst: GNG	
Blank (A614379-BLK1)											
Lead	ND	0.0010	mg/L							10/19/16	
Blank Spike (A614379-BS1)											
Lead	0.10	0.0010	mg/L	0.10		104	85-115			10/19/16	
Blank Spike Dup (A614379-BSD1)											
Lead	0.10	0.0010	mg/L	0.10		104	85-115	0	20	10/19/16	
Matrix Spike (A614379-MS1), Source: A6J1691-01											
Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130			10/19/16	
Matrix Spike (A614379-MS2), Source: A6J1691-21											
Lead	0.20	0.0020	mg/L	0.20	ND	101	70-130			10/19/16	
Matrix Spike Dup (A614379-MSD1), Source: A6J1691-01											
Lead	0.21	0.0020	mg/L	0.20	ND	106	70-130	1	20	10/19/16	
Matrix Spike Dup (A614379-MSD2), Source: A6J1691-21											
Lead	0.20	0.0020	mg/L	0.20	ND	100	70-130	1	20	10/19/16	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno			
State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAP	4021
EPA - UCMR3	CA00079	State of Washington	C997-16
Sacramento			
State of California - ELAP	2435		
San Bernardino			
State of California - ELAP	2993	State of Oregon - NELAP	4119-001
Vancouver			
State of Oregon - NELAP	WA100008-008	State of Washington	C824-16

A6J1691
PBSEN1939

10/13/2016
10

PBS | Engineering + Environmental

OREGON DAS [redacted]
LEAD IN DRINKING WATER TESTING PROGRAM

FACILITY NAME: Agriculture Building

PROJECT #: 25103.003 [redacted] PH 1

ANALYSIS REQUESTED:
- ☑ LEAD (PB) IN DRINKING WATER
- ☐ COPPER (CU) IN DRINKING WATER

DATE: 10/10/2016

RELINQ'D BY/SIGNATURE: Mike Golden

DATE/TIME: 10/12/16 1700

20-2° RECEIVED BY/SIGNATURE: Karen Kangell

DATE/TIME: 10/13/16 0900

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
1	SK-AB-001-FD		343	Natural Resources/Pesticides
2	SK-AB-002-FL		↓	Kitchenette, 3rd Floor Kitchen Sink
3	SK-AB-003-FD			Directors office Kitchenette Rm.
4	SK-AB-004-FL			3rd Floor Kitchen Sink adjacent to 321
5	SK-AB-005-FD			Suite 350 Kitchette, 3rd
6	SK-AB-006-FL			Floor, Kitchen Sink
7	WF-AB-007-FD			Water Fountain (upper) across
8	WF-AB-008-FL			Hallway across Room 343, 3rd Floor
9	WF-AB-009-FD			Water Fountain (lower) Hallway across
10	WF-AB-010-FL			Room 343, 3rd Floor
11	SK-AB-011-FD			Suite 250, Kitchenette 2nd
12	SK-AB-012-FL			Floor, Kitchen Sink 2nd Floor
13	WF-AB-013-FD			Water Fountain (upper) Hallway across
14	WF-AB-014-FL			Restrooms, adjacent to Plant Lab 2nd Floor
15	WF-AB-015-FD			Water Fountain (lower) Hallway across
16	WF-AB-016-FL			Restrooms, adjacent to Plant Lab (2nd Floor)
17	SK-AB-017-FD		115	Admin. Services Kitchenette,
18	SK-AB-018-FL			Kitchen Sink, 1st Floor
19	SK-AB-019-FD			Suite 150 Coastal Management
20	SK-AB-020-FL			Kitchen Sink, 1st Floor
21	WF-AB-021-FD			Water Fountain (upper) Hallway across
22	WF-AB-022-FL			Cashier Office, 1st Floor
23	WF-AB-023-FD			Water Fountain (lower) Hallway
24	WF-AB-024-FL			across Cashier Office, 1st Floor
25	WF-AB-025-FD			Water Fountain, Hallway
26	WF-AB-026-FL			across Sanitation Engineer Office
				~~1st Floor~~ Basement (upper)

PBS | Engineering + Environmental

A6J1691
PBSEN1939

10/13/2016
10

OREGON DAS [redacted]
LEAD IN DRINKING WATER TESTING PROGRAM

FACILITY NAME: Agriculture Building

PROJECT #: 25103.003 [redacted] PH 1

ANALYSIS REQUESTED:
- ☑ LEAD (PB) IN DRINKING WATER
- ☐ COPPER (CU) IN DRINKING WATER

DATE: 10/10/2016

RELINQ'D BY/SIGNATURE: Mike Golden / [signature]

DATE/TIME: 10/12/16 1700

RECEIVED BY/SIGNATURE:

DATE/TIME:

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM	
27	WF-AB-027-FD			Water Fountain Hallway across	
28	WF-AB-028-FL			Sanitation Engineer, Basement (lower)	
29	SK-AB-029-FD			Conference Room D, Kitchen	
30	SK-AB-030-FL			Sink, Basement	
31	SK-AB-031-FD			Break room, Kitchenette, Kitchen	
32	SK-AB-032-FL			Sink, Basement	

BSK Associates SR-FL-0002-16

A6J1691 10/13/2016
PBSEN1939 10

Sample Integrity

BSK Bottles: Yes (No) Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (NA)	Were correct containers and preservatives received for the tests requested?	(Yes) No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No (NA)	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No (NA)
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No (NA)

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1-32				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—					
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	Y N					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	Y N					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y N					
HNO_3 (P) Red Cap Label or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N					
NaOH (P) Green Cap	Cl, pH >10	Y N					
NaOH + ZnAc (P)	pH > 9	Y N					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2O_3S 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Other:							
Asbestos 1Liter Plastic w/ Foil	—	—					
Low Level Hg / Metals Double Baggie	—	—					
Bottled Water	—	—					
Clear Glass 250mL / 500mL / 1 Liter	—	—					
Soil Tube Brass / Steel / Plastic	—	—					
Tedlar Bag / Plastic Bag	—	—					

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
(S) P	250*			S P			
S P				S P			

Comments

* Odd numbers only - Run

Labeled by: _____ @ _____ Labels checked by: _____ @ _____ RUSH Paged by: _____ @

A6J1691

10132016

PBSEN1939

Turnaround: Standard
Due Date: 10/27/2016

PBS Environmental

Printed: 10/19/2016 12:06:46PM
Page 1 of 1

A6J1691 10/13/2016

PBSEN1939 10

BSK Associates SR-FL-0002-16

Sample Integrity

BSK Bottles: Yes (No) Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (NA)	Were correct containers and preservatives received for the tests requested?	(Yes) No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No (NA)	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No (NA)
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No (NA)

Bottles Received ("-" means preservation/chlorine checks are either N/A or are performed in the lab)

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1–32				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—					
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	Y N					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	Y N					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y N					
HNO_3 (P) Red Cap Label or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N					
NaOH (P) Green Cap	Cl, pH >10	Y N					
NaOH + ZnAc (P)	pH > 9	Y N					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2O_3S 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Other:							
Asbestos 1Liter Plastic w/ Foil	—	—					
Low Level Hg / Metals Double Baggie	—	—					
Bottled Water	—	—					
Clear Glass 250mL / 500mL / 1 Liter	—	—					
Soil Tube Brass / Steel / Plastic	—	—					
Tedlar Bag / Plastic Bag	—	—					

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
(S) P	250*			S P			
S P				S P			

Comments

* Odd numbers only. Run
All samples received MS 10/13/16

Labeled by: _____ @ _____ Labels checked by: _____ @ _____ RUSH Paged by: _____ @ _____