

Engineering + Environmental

January 3, 2017

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 Revenue Building 955 Center Street NE Salem, Oregon 97301 PBS Project # 25103.003 Phase 0025

Dear Mr. Miller:

On October 15, 17, and 18, and November 1, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Revenue building located at 955 Center 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.

Fifty-four 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 100 ppb. Laboratory analysis indicates that one drinking water sample contained lead at a concentration above the EPA action level. The associated flush sample taken at the same location fell below the action level at 4.8 ppb. PBS is recommending that this fixture be replaced followed by re-testing.

The following tables present all first draw samples that fell below and exceeded the EPA action level of 15 ppb.

Drinking Water Sampling for Lead, Department of Administrative Services Revenue Building January 3, 2017 Page 2 of 3

Sample Number	Sample Location	Lead Concentration (ppb)
WF-REV-001-FD	Water fountain spigot fourth floor between men's/women's bathrooms SE 470/471	ND
WF-REV-003-FD	Water fountain spigot fourth floor Tower Room	ND
WF-REV-005-FD	Water fountain spigot second floor SE between men's/women's bathrooms, south of stairs	ND
WF-REV-007-FD	Upper water fountain cafe across from west stairs to first floor	ND
WF-REV-011-FD	Water fountain basement across from mechanical room 4	ND
SK-REV-013-FD	Lactation room fifth floor kitchen sink	1.6
WF-REV-015-FD	Water fountain fifth floor adjacent to south stairs	ND
SK-REV-017-FD	Employee lunch room fifth floor kitchen sink	ND
WF-REV-019-FD	Water fountain fifth floor adjacent to west	ND
WF-REV-021-FD	Water fountain fifth floor tower room between men's/women's bathrooms	ND
WF-REV-023-FD	Water fountain fourth floor adjacent to west stairs	ND
WF-REV-025-FD	Water fountain third floor adjacent to south stairs	ND
WF-REV-027-FD	Water fountain third floor adjacent to west stairs	ND
WF-REV-029-FD	Water fountain third floor tower room between men's/women's bathrooms	ND
WF-REV-031-FD	Water fountain second floor tower room between men's/women's bathrooms	ND
SK-REV-033-FD	Employee lunch room second floor across from mapping unit	ND
WF-REV-035-FD	Water fountain second floor adjacent to west stairs	ND
WF-REV-037-FD	Water fountain first floor lobby outside of room 135	ND
WF-REV-039-FD	Water fountain first floor vending machine area near lobby	ND
WF-REV-041-FD	Room 101 water fountain adjacent to first floor north stairs tower room	ND
SK-REV-043-FD	Cafe hand wash station kitchen sink	ND
SK-REV-045-FD	Cafe dish wash area, kitchen sink	1.3

Lead Concentrations below 15 ppb

Sample Number	Sample Location	Lead Concentration (ppb)
SK-REV-047-FD	Cafe food prep area, 1 kitchen sink	ND
SK-REV-049-FD	Cafe Food prep area, 2 kitchen sink	ND
SK-REV-051-FD	Cafe Food prep area, 3 kitchen sink	ND
SK-REV-053-FD	Room 357 third floor break room kitchenette sink	ND

ND: None Detected

Lead Concentration above 15 ppb and Associated Flush Sample

Sample Location	First Draw Sample Number	First Draw Lead Concentration (ppb)	Flush Draw Sample Number	Flush Draw Lead Concentration (ppb)
Lower water fountain cafe across from west stairs to first floor	WF-REV-009-FD	100	WF-REV-010-FL	4.8

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.

S. D.ml Hy

Derek May, Principal

Attachments: Laboratory Results Chain of Custody Form

DM::bmp

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



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

RE: Report for A6J2696 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 10/20/2016. 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**



A6J2696 Oregon DAS - Lead

Case Narrative

Project and R	Report Details	Invoice Details				
Client:	PBS Environmental	Invoice To: PBS Environmental				
Report To:	Derek May	Invoice Attn: Accounts Payable				
Project #:	Revenue #25103.003 PH 25	Project PO#: -				
Received:	10/20/2016 - 17:36					
Report Due:	11/04/2016					
Sample Rece	ipt Conditions					
Cooler: Defau	It Cooler	Containers Intact				
Temperature on		COC/Labels Agree				
		Received with no thermal preservation.				
		Sample(s) split after receipt at the laboratory.				
		Initial receipt at BSK-VAL				
Data Qualifie	ers					
The following o	qualifiers have been applie	d to one or more analytical results:				
***None applied*	**					

Report Distribution

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	beth.powers@pbsenv.com



 Sample ID: A6J2696-01
 Sample Date - Time: 10/17/16 - 00:00

 Sampled By:
 Client

 Sample Description: WF-REV-001-FD // Water fountain spigot 4th Floor between men's/women's bathrooms SE 470/471
 Matrix: Drinking Water

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Certificate of Analysis

Sample ID: A6J2696-03	Sample Date - Time: 10/17/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-003-FD // Water fountain spigot 4th Floor Tower Room	Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2696-05	Sample Date - Time: 10/17/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-005-FD // Water fountain spigot 2nd Floor SE between	Sample Type: First Draw
men's/women's bathrooms South of stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed Qua
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16



Sample ID: A6J2696-07	Sample Date - Time: 10/17/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-007-FD // Upper water fountain cafe across from West	Sample Type: First Draw
stairs to 1st Floor	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



 Sample ID: A6J2696-09
 Sample Date - Time: 10/17/16 - 00:00

 Sampled By:
 Client

 Sample Description: WF-REV-009-FD // Lowerr water fountain cafe across from
 Matrix: Drinking Water

 Sample Stairs to 1st Floor
 Sample Type:

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	0.10	0.0010	mg/L	1	A614923	10/31/16	11/03/16	



Sample ID: A6J2696-10	Sample Date - Time: 10/17/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-010-FL // Lowerr water fountain cafe across from West	Sample Type: First Flush
stairs to 1st Floor	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	0.0048	0.0010	mg/L	1	A615447	11/09/16	11/09/16	



Sample ID: A6J2696-11	Sample Date - Time: 10/17/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-011-FD // Water fountain basement across from Mech	Sample Type: First Draw
Room 4	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed Q	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



BSK Associates Fresno Metals Quality Control Report

	M	etals Qi	uality C	ontrol	Report						
				Spike	Source		%REC		RPD	Date	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed	Qual
		EPA 2	00.8 - QI	uality Co	ntrol						
Batch: A614919											10/28/2016
Prep Method: EPA 200.2 - Pb/Cu Rule										Ar	alyst: GNG
Blank (A614919-BLK1)											
Lead	ND	0.0010	mg/L							10/28/16	
Blank Spike (A614919-BS1)											
Lead	0.10	0.0010	mg/L	0.10		105	85-115			10/28/16	
Blank Spike Dup (A614919-BSD1)											
Lead	0.11	0.0010	mg/L	0.10		105	85-115	1	20	10/28/16	
Matein Spille (AC14040 MS4) Sauraa AC	12640.04										
Matrix Spike (A614919-MS1), Source: A6. Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130			10/28/16	
	0.21	0.0020		0.20			10.00			10/20/10	
Matrix Spike (A614919-MS2), Source: A6		0.0000		0.00		404	70.400			40/00/40	
Lead	0.21	0.0020	mg/L	0.20	ND	104	70-130			10/28/16	
Matrix Spike Dup (A614919-MSD1), Sour											
Lead	0.21	0.0020	mg/L	0.20	ND	106	70-130	1	20	10/28/16	
Matrix Spike Dup (A614919-MSD2), Sour	ce: A6J2696-05										
Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130	1	20	10/28/16	
		EPA 2	00.8 - QI	uality Co	ntrol						
Batch: A614923				-						Prepared:	10/31/2016
Prep Method: EPA 200.2										Aı	nalyst: MAS
Blank (A614923-BLK1)											
Lead	ND	0.0010	mg/L							11/03/16	
Blank Spike (A614923-BS1)											
Lead	0.18	0.0010	mg/L	0.20		90	85-115			11/03/16	
Blank Spike Dup (A614923-BSD1) Lead	0.18	0.0010	mg/L	0.20		92	85-115	2	20	11/03/16	
Lead	0.10	0.0010	ilig/L	0.20		52	00-110	2	20	11/03/10	
Matrix Spike (A614923-MS1), Source: A6											
Lead	0.19	0.0010	mg/L	0.20	ND	95	70-130			11/03/16	
Matrix Spike (A614923-MS2), Source: A6	J3128-04										
Lead	0.18	0.0010	mg/L	0.20	ND	89	70-130			11/03/16	
Matrix Spike Dup (A614923-MSD1), Sour	ce: A6J3128-01										
Lead	0.18	0.0010	mg/L	0.20	ND	91	70-130	5	20	11/03/16	
Matrix Shika Dun (A644002 MSDO) Same	001 AG 12420 04										
Matrix Spike Dup (A614923-MSD2), Source Lead	0.18	0.0010	mg/L	0.20	ND	91	70-130	3	20	11/03/16	
			J								

A6J2696 FINAL 11112016 1553 Printed: 11/11/2016 QA-RP-0001-10 Final.rpt



BSK Associates Fresno Metals Quality Control Report

				Spike	Source		%REC		RPD	Date	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed	Qual
		EPA 20)0.8 - Qı	ality Co	ntrol						
Batch: A615447										Prepared	d: 11/9/2016
Prep Method: EPA 200.2 - Pb/Cu Rule										An	alyst: GNG
Blank (A615447-BLK1)											
Lead	ND	0.0010	mg/L							11/09/16	
			5								
Blank Spike (A615447-BS1)											
Lead	0.089	0.0010	mg/L	0.10		89	85-115			11/09/16	
Blank Spike Dup (A615447-BSD1)											
Lead	0.089	0.0010	mg/L	0.10		89	85-115	0	20	11/09/16	
Matein Online (AC45447 MO4) October AC											
Matrix Spike (A615447-MS1), Source: A6 Lead	0.18	0.0020	mg/L	0.20	0.0048	89	70-130			11/09/16	
Lead	0.16	0.0020	mg/L	0.20	0.0046	69	70-130			11/09/10	
Matrix Spike (A615447-MS2), Source: A6	J3336-12										
Lead	0.23	0.0020	mg/L	0.20	0.026	101	70-130			11/09/16	
Matrix Spike Dup (A615447-MSD1), Sour	rco: A6 12696-10										
Lead	0.18	0.0020	mg/L	0.20	0.0048	87	70-130	2	20	11/09/16	
Loud	0.10	0.0020	ing/L	0.20	0.00-0	07	70-130	2	20	11/03/10	
Matrix Spike Dup (A615447-MSD2), Sour	rce: A6J3336-12										
Lead	0.21	0.0020	mg/L	0.20	0.026	94	70-130	6	20	11/09/16	



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

	PBS	Engineering + Environmental	A6J2696 PBSEN19	39	10/20/2016 10 LEAD IN DRINKING WATER TESTING PROGRAM
9 * 01 9 9	FACILITY NAM	E: REVENUE		6	PROJECT #: PROJECT #: PROJECT #:
	RECEIVED BY	LEAD (PB) IN DRIN COPPER (CU) IN DI SIGNATURE: Mike Go	RINKING WATER	n Dr	DATE: 10/17/16 MG DATE/TIME: 10/19/16 1980 DATE/TIME: 10/20/16 0900 TURN AROUND TIME: 2-10 days
			SAMPLE	DATA FO	RM
	LAB	SAMPLE#	BUILDING	ROOM	LOCATION IN ROOM
		WF-REV-001-FD			Water Foundain Spigot
	L	WF-REV-002-F			4th Floor between Mens Womens
					backroom Southeast (470/471)
	3	WF-PEN-003-FD WE-PEN-004-FL			FLOOR' TOWER ROOM'
		WF-REV-005 FT			Water Foundain Spigot 2nd
	6	WF-201-006-FL			Floor Southeast between
					way sooman bathrooms
	Station of the local division of the local d			-	(South shir and Floor)
0. 	1	WF- RB1-007-FU			water Foundain, man Core,
	8	WF-2-BN-008-FL		1517	across from West Stairs to
85		UD OFIL DAD		1-10	Deberment (DODET)
	10	WF- REV-009-F WF-REV-010-			Water Fountain Cafe
				16T FT	accoss from west stairs to
	1	WF-REV-DII-F	D		Water Foundain basement
	12	WF-REV-012-F	FL.		Water Foundain, basenent ucrossfrom Mech. Room 4
	-				
				_	
			1		

PBS ENGINEERING + ENVIRONMENTAL, 4412 SW Corbet Avenue, 1 Strating, one

1500000	Associates SR-FL-0002-16				A6J2 PBSE	696 EN1939	10/20/ 10		
	SK Bottles: (Yes No Page	e of	1					40	
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C		NA)	We	re correct contain eived for the tests	ers and pres	ervatives (Yes	No NA
COC Info	If samples were taken today, is there evidence that chilling has begun?	Yes No	VA)	We	re there bubbles i atiles Only)		als?	Yes	No (NA)
8	Did all bottles arrive unbroken and intact?		lo	Wa	s a sufficient amo	ount of sample	e received?	Yes	s) No
0	Did all bottle labels agree with COC? Was sodium thiosulfate added to CN sample(s)	the second secon	6	Do : Wa	samples have a h s PM notified of d	iscrepancies	hours?	Yes	s (No)
	until chlorine was no longer present?	Yes No(1	NA/	PM:		By/Time:		Yes	No (NA)
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) Bacti Na ₂ S ₂ O ₃	Checks	Pas	sed?	1-				
	None (P) ^{White Cap}		-	_					
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	— Cl, pH > 8	Y			A CONTRACTOR OF			
	Cr6 (P) Pink Label/Blue Cap NH40H(NH4)2S04 WW	pH 9.3-9.7	Y	N					
tha lah		pH 9.0-9.5	Y	N N	and the second			and the second	- She and the Ball She and the
att of		p113.0-3.0	1	N					
i pa	HNO3 (P) BECCap or HCI (P) Purple Cap/LL. Blue Label		-						
nerformed	H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label}	pH < 2	Y	N					
berte	NaOH (P) Green Cap	CI, pH >10	Y	N					
	NaOH + ZhAc (P)	pH > 9	Y	N					
2	Dissolved Oxygen 300ml (g)	<u>(</u>	-	-		1.			
d N/A	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	1	-					
Bottles Received		<u> </u>	-	-					
e eile	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525	-	1	-		A			
Re	Na2O3S 250mL (AG)Neon Green Label 515	-	-	-					
les eck	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		-	-		**************************************			
ect	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524	-	-			Contraction of the second s			
blorin B	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547		0	-					
n/ch	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH < 3	Y	N					
means preservation/c	NH4CI (AG) ^{Purple Label} 552	·		-					and the state
Serv	EDA (AG) ^{Brown Label} DBPs	-	-	-					
pres	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	<u> </u>		_					A CONTRACTOR
ans	Buffer pH 4 (CG)			- 3					
me	H3PO4 (CG)Salmon Label	_	_	-					
ן ["]	Other:			2				ANY LOD Y	
	Asbestos 1Liter Plastic w/ Foil		-	-					
	Low Level Hg / Metals Double Baggie Bottled Water					NAME AND ADDRESS OF ADDRESS			
	Clear Glass 250mL / 500mL / 1 Liter	_	-						
	Soil Tube Brass / Steel / Plastic	-	- 10 -		discontente :				
	Tedlar Bag / Plastic Bag			-					
H.		Time/Initials	-	_	Container	Preserva	ative Date	≥/Time	e/Initials
Split	SP 2501K			P P					
			.L						
Comments	* Odd	numbe	NS	Ol	rly. Rik				
Com					V				





PBSEN1939



PBS Environmental



10212016

Turnaround: Standard Due Date: 11/4/2016





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_	ssociates SR-FL-0002-16						J2696 SEN 19	939	1	0/20/2 10	2016		
	mple Integrity		l										
DS	K Bottles: Yes No Page Was temperature within range?	eof				<u> </u>	T AR FOLDER	IIIII LIIG HI	TA REATER TATION NOT TATAN	1111 JUL			/
	Chemistry $\leq 6^{\circ}$ C Micro $< 10^{\circ}$ C	Yes No (I	NA)			rect cont for the te			reservative: d?	s ([Yes) No	NA
coc Info	If samples were taken today, is there evidence	Yes No	NA)	We	re the	re bubble					Yes	No (
Ū	that chilling has begun? Did all bottles arrive unbroken and intact?		<u> </u>			Only)	mount	of oor	nple receive				\leq
00	Did all bottle labels agree with COC?		to l	Do	samp	les have	a hold	time <	72 hours?	30?	(Yes	<u> </u>	No)
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No	NA)	Wa	Was PM notified of PM:			panc me:	ies?		Yes	No (2
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pas	sed?									
	Bacti Na ₂ S ₂ O ₃		-										
	None (P) ^{White Cap}		-	-									
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N	<u> </u>								
_	Cr6 (P) ^{Pink Label/Blue Cap} NH4OH(NH4)2SO4 WW	pH 9.3-9.7	Y	N	<u> </u>								
the lab	Cr6 (P) Black Label/Blue Cap NH40H(NH4)2S04 7199	pH 9.0-9.5	Y	N									
	HNO3 (P) BEC Cap or HCI (P) Furple Cap/Lt. Blue Label			<u> </u>		10							
performed in	H ₂ SO ₄ (P) or (AG) ^{Yellow Cap/Label}	pH < 2	Y	N			1	and the second s			3 1947		
erfo	NaOH (P) ^{Green Cap}	Cl, pH >10	Y	Ν									First
ā e	NaOH + ZnAc (P)	pH > 9	Y	N	s art				1975 - C				
ora	Dissolved Oxygen 300ml (g)	—	-									Alexandre de la	<u></u>
- A	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	5		33	in the		2					
eived either N/A	HCI (AG) ^{Lt. Blue Label} O&G, Diesel		_	_			-		ALL ALL	9.4A		<u></u>	<u>090</u>
Received	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525	_	_				_						
	Na2O3S 250mL (AG)Neon Green Label 515	<u>-</u>	90.00 	0.94°						. M	10.100		1.0
eck.	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		_	-	1	<u> </u>		فحديد ليراسك		<u></u>	<u> </u>		
Bottles	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524	<u>112</u>		-	14 J						lets-		
B n/chlorin	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547		-							the contract			-
/chl	Na2S2O3 + MCAA (CG) ^{Orange Label} 531	pH < 3	ŶΫ́	N									
	NH4CI (AG) ^{Purple Label} 552					<u> </u>	<u>84 - 1 - 12</u>			<u>64 - 11 -</u>			<u> </u>
preservatio	EDA (AG)Brown Label DBPs		सरझर ः	_							333		
bres	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624				-			<u>-937/187</u>				344 (
	Buffer pH 4 (CG)	<u> </u>		_			45.000						
a L	H3PO4 (CG)Salmon Label	and the second se			A.	and a second s							
٦Ľ	Other:		100		<u>1356 (</u>		-	<u></u>		<u>C. B. s.</u>	<u>14.072008</u>	1.000	2%2
	Asbestos 1Liter Plastic w/ Foil		<u></u> 	-	н. 8 К. 8		1						
	Low Level Hg / Metals Double Baggie Bottled Water												
- F	Clear Glass 250mL / 500mL / 1 Liter			-		<u>, i y</u> ,						· · · · · ·	
	Soil Tube Brass / Steel / Plastic			_					<u>.</u>				
	Tedlar Bag / Plastic Bag			- 1			-	<u>è</u>					
₩¢	Container Preservative Date/	Time/Initials			С	ontainer		Prese	ervative	Date	/Time	/Initia	Is
\overline{n}	s) Р 250 *		S S	P									
Comments	* Odd - PECETVED ALL ZSO POL		Rs	Or					154				
abele	d by: @ Labels check	ked by:		@ _			RUS	H Pa	ged by:		Pa	age 1	6 of

BSK Associat	es SR-F	-L-0002-16

Sample Integrity

A6J2696
PBSEN1939

10/20/2016

939	10

	I mple Integrity K Bottles: Yes No Pag	ae of								
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C		NA	Wer rece	e correct conta ived for the tes	iners and pits requeste	reservative	s	Yeş	No NA
COC Info	If samples were taken today, is there evidence that chilling has begun?	Yes No	NA	Wer	e there bubbles atiles Only)	in the VOA	vials?		Yes	No (NA)
X	Did all bottles arrive unbroken and intact?		Vo	Was	a sufficient am	ount of san	nple receiv	ed?	Yes	\sim
ŭ	Did all bottle labels agree with COC?		No	Do s	amples have a	hold time <	72 hours?		Yes	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No	NA/	Was	PM notified of		es?		Yes	No NA
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pas	ssed?	-117	By/Time:	<u> </u>			
	Bacti Na ₂ S ₂ O ₃			_						
	None (P) ^{White Cap}		-			<u> </u>				
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N				8 2 2 2 2 2		
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WM	and the second	Y	COURSE (DR.)						
the lab	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 719			N						
	HNO3 (P) Red Cap or HCI (P) Purple Cap/Lt. Blue Label					ļ				
med	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label			-						
orn -	NaOH (P) Green Cap	pH < 2	-	N				<u> </u>		
perfor		Cl, pH >10	Y	<u>N</u>						
are	NaOH + ZnAc (P)	pH > 9	Y	N			a succession of the			
P	Dissolved Oxygen 300ml (g)		-							
D/A N/A	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		-	-						
eived either N	HCI (AG) ^{Lt. Blue Label} O&G, Diesel		-					1		
les Rec ecks are	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525		-	_				<u> </u>		
	Na ₂ O ₃ S 250mL (AG) ^{Neon Green Label} 515	_		_			and the second			
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	<u> </u>	_							
e ct	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524	_	-							
G	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547		_	_						
n/chl	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH < 3	Y	N						
ervatio	NH4CI (AG) ^{Purple Label} 552					-				
Ū.	EDA (AG) ^{Brown Label} DBPs	-		-						
pre	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624		-	-						
sans	Buffer pH 4 (CG)	—	1	-						
Ĕ	H ₃ PO ₄ (CG) ^{Salmon Label}	-		-			-		+	
٦,	Other:									
l.	Asbestos 1Liter Plastic w/ Foil		<u> </u>	-		100 State				
	Low Level Hg / Metals Double Baggie Bottled Water	—								
ľ	Clear Glass 250mL / 500mL / 1 Liter		28. X.	_						
	Soil Tube Brass / Steel / Plastic			_		<u>.</u>			1000	
	Tedlar Bag / Plastic Bag			-					2020 20	
<u>=</u>	Container Preservative Date	e/Time/Initials			Container	Prese	rvative	Date/	Time	/Initials
40	SP/L-7250mL 11/-	111/	S	Р						
Comments	FO sample exceed FL Sample pulled	ed Mu For a	ĊĽ	P Lys	is Dre					
	PECETVED AL 250M	r Poly	40	Ň	1-8-16	1230	0-tsu	λ		
	d by: @ Labels che					RUSH Pag		-	ര	



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



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

RE: Report for A6J2701 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 10/20/2016. 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**



A6J2701 Oregon DAS - Lead

Case Narrative

Project and	Report Details	Invoice Details	;						
Client:	PBS Environmental	Invoice To:	PBS Environmental						
Report To:	Derek May	Invoice Attn:	Accounts Payable						
Project #:	Revenue #25103.003 PH 2	5 Project PO#:	-						
Received:	10/20/2016 - 09:00								
Report Due:	11/03/2016								
Sample Receipt Conditions									
	ault Cooler on Receipt °C: 19.6	Containers Intact COC/Labels Agree Received with no thermal preservation. Sample(s) split after receipt at the laboratory. Initial receipt at BSK-VAL							
Data Quali	fiers								
The following	g qualifiers have been applie	d to one or more analytical results:							
None applie	d								
Report Dis	tribution								

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	beth.powers@pbsenv.com



Sample ID: A6J2701-01 Sampled By: Client Sample Description: SK-REV-013-FD // Lactation room 5th Floor kitchen sink Sample Date - Time: 10/18/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	0.0016	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-03	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-015-FD // Water fountain 5th Floor adjacent to South	Sample Type: First Draw
stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-05 Sampled By: Client Sample Description: SK-REV-017-FD // Employee lunch room 5th Floor kitchen sink

Sample Date - Time: 10/18/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



 Sample ID: A6J2701-07
 Sample Date - Time: 10/18/16 - 00:00

 Sampled By:
 Client

 Sample Description:
 WF-REV-019-FD // Water fountain 5th Floor adjacent to West

 stairs
 Sample Type:

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-09 Sampled By: Client Sample Description: WF-REV-021-FD // Water fountain 5th Floor tower room between men's/women's bathrooms

BSK Associates Fresno

Metals

Sample Date - Time: 10/18/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

						-				
А	nalyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Le	ead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-11	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-023-FD // Water fountain 4th Floor adjacent to West	Sample Type: First Draw
stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-13	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-025-FD // Water fountain 3rd Floor adjacent to South	Sample Type: First Draw
stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614919	10/28/16	10/28/16	



Sample ID: A6J2701-15	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-027-FD // Water fountain 3rd Floor adjacent to West	Sample Type: First Draw
stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614918	10/28/16	10/28/16	



Sample ID: A6J2701-17 Sampled By: Client Sample Description: WF-REV-029-FD // Water fountain 3rd Floor tower room between men's/women's bathrooms

BSK Associates Fresno

Metals

Sample Date - Time: 10/18/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16	



Sample ID: A6J2701-19 Sampled By: Client Sample Description: WF-REV-031-FD // Water fountain 2nd Floor tower room between men's/women's bathrooms

BSK Associates Fresno

Metals

Sample Date - Time: 10/18/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

				RL			
Method	Result	RL	Units	Mult	Batch	Prepared	Analyzed Qual
EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16
	Method EPA 200.8				Method Result RL Units Mult	Method Result RL Units _{Mult} Batch	Method Result RL Units _{Mult} Batch Prepared



Sample ID: A6J2701-21	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: SK-REV-033-FD // Employee lunch room 2nd Floor across from	Sample Type: First Draw
Mapping unit	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16	



Sample ID: A6J2701-23	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-035-FD // Water fountain 2nd Floor adjacent to West	Sample Type: First Draw
stairs	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16



 Sample ID: A6J2701-25
 Sample Date - Time: 10/18/16 - 00:00

 Sampled By:
 Client

 Sample Description:
 WF-REV-037-FD // Water fountain 1st Floor lobby outside of

 Room 135
 Sample Description:

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed Qua
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16



 Sample ID: A6J2701-27
 Sample Date - Time: 10/18/16 - 00:00

 Sampled By:
 Client

 Sample Description: WF-REV-039-FD // Water fountain 1st Floor vending machine area near lobby
 Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16	



Sample ID: A6J2701-29	Sample Date - Time: 10/18/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: WF-REV-041-FD // Room 101 water fountain adjacent to 1st	Sample Type: First Draw
Floor North stairs tower room	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614921	10/28/16	11/02/16



BSK Associates Fresno Metals Quality Control Report

	N	letais Qi	Jaility G	Jontrol	Report						
				Spike	Source		%REC		RPD	Date	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed	Qual
		EPA 20	00.8 - Q	uality Co	ntrol						
Batch: A614918										Prepared	: 10/28/2016
Prep Method: EPA 200.2 - Pb/Cu Rule										Ar	nalyst: GNG
Blank (A614918-BLK1)											
Lead	ND	0.0010	mg/L							10/28/16	
Blank Spike (A614918-BS1)											
Lead	0.099	0.0010	mg/L	0.10		99	85-115			10/28/16	
			-								
Blank Spike Dup (A614918-BSD1)	0.10	0.0010	~~~/l	0.10		100	0E 11E	1	20	10/20/16	
Lead	0.10	0.0010	mg/L	0.10		100	85-115	1	20	10/28/16	
Matrix Spike (A614918-MS1), Source: A	6J3055-21										
Lead	0.23	0.0020	mg/L	0.20	0.0039	115	70-130			10/28/16	
Matrix Spike (A614918-MS2), Source: A	6J2779-37										
Lead	0.25	0.0020	mg/L	0.20	0.011	119	70-130			10/28/16	
Notatio Onites Dura (AC44040 MOD4), Ocu											
Matrix Spike Dup (A614918-MSD1), Sou Lead	0.23	0.0020	mg/L	0.20	0.0039	114	70-130	1	20	10/28/16	
	0.20	0.0020	ing/L	0.20	0.0000		10 100	•	20	10/20/10	
Matrix Spike Dup (A614918-MSD2), Sou											
Lead	0.25	0.0020	mg/L	0.20	0.011	119	70-130	0	20	10/28/16	
		EPA 20	00.8 - Q	uality Co	ntrol						
Batch: A614919										Prepared:	10/28/2016
Prep Method: EPA 200.2 - Pb/Cu Rule										Ar	nalyst: GNG
Blank (A614919-BLK1)											
Lead	ND	0.0010	mg/L							10/28/16	
Blank Snike (AC14040 BS4)											
Blank Spike (A614919-BS1) Lead	0.10	0.0010	mg/L	0.10		105	85-115			10/28/16	
2000	0.10	0.0010	ing/L	0.10		100	00 110			10,20,10	
Blank Spike Dup (A614919-BSD1)											
Lead	0.11	0.0010	mg/L	0.10		105	85-115	1	20	10/28/16	
Matrix Spike (A614919-MS1), Source: A	6J2619-01										
Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130			10/28/16	
Matrix Spike (A614919-MS2), Source: A	6.12696-05										
Lead	0.21	0.0020	mg/L	0.20	ND	104	70-130			10/28/16	
			-								
Matrix Spike Dup (A614919-MSD1), Sou		0.0000	ma/l	0.20		106	70 420	4	20	10/29/46	
Lead	0.21	0.0020	mg/L	0.20	ND	106	70-130	1	20	10/28/16	
Matrix Spike Dup (A614919-MSD2), Sou	rce: A6J2696-05										
Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130	1	20	10/28/16	

A6J2701 FINAL 11092016 1142 Printed: 11/9/2016 QA-RP-0001-10 Final.rpt



BSK Associates Fresno Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
·				uality Co							
Batch: A614921 Prep Method: EPA 200.2 - Pb/Cu Rule										•	10/28/2016 alyst: GNG
Blank (A614921-BLK1) Lead	ND	0.0010	mg/L							11/02/16	
Blank Spike (A614921-BS1) Lead	0.098	0.0010	mg/L	0.10		98	85-115			11/02/16	
Blank Spike Dup (A614921-BSD1) Lead	0.098	0.0010	mg/L	0.10		98	85-115	0	20	11/02/16	
Matrix Spike (A614921-MS1), Source: Lead	A6J2701-17 0.20	0.0020	mg/L	0.20	ND	98	70-130			11/02/16	
Matrix Spike (A614921-MS2), Source: Lead	A6J2705-15 0.19	0.0020	mg/L	0.20	ND	97	70-130			11/02/16	
Matrix Spike Dup (A614921-MSD1), So Lead	ource: A6J2701-17 0.20	0.0020	mg/L	0.20	ND	98	70-130	0	20	11/02/16	
Matrix Spike Dup (A614921-MSD2), So Lead	ource: A6J2705-15 0.20	0.0020	mg/L	0.20	ND	98	70-130	1	20	11/02/16	



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

	PBS	Engineering + Environmental	A6J2701 PBSEN193	9	10/20/2016 10 LEAD IN DRINKING WATER TESTING PROGRAM 25103.003
	FACILITY NAMI	E REVENUE			PROJECT #: PHas
	Analysis rec B D Relinq'd by/3	LEAD (PB) IN DRINK	WATER	A	DATE: 10/15/16 DATE/TIME: 10/19/16 1700
161	RECEIVED BY	SIGNATURE: LIMER 9	Kancell		DATE/TIME: 10/20/16 0900
1-10	EMAIL RESUL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	C any C arro		TURN AROUND TIME: 1-10 days
14	LWAIL RESUL	13 10. <u>Lizet may epu</u>	SEAN . SOUT		PUNNAROUND HIME. 1-10 Bays
			SAMPLE	DATA FO	RM
	LAB	SAMPLE#	BUILDING	ROOM	
	-	5K-REV-013-FU.			Lastation Room BAN FLOOR Kitchen Sink Sth FLOOR
	2	SK-REV-014-FL WF-REV-015-FD			Water Fountain Adjacent to
	4	WF-REV-016-FL	/		5th Floor Stains South
	5	SK-RBV-OLZ-FD			EMPLOYER LUNCH ROOM
	6	SK-REV-015-FL			5m Fleer, Kitchen Sink
	1	wF- ROV-019- FU	•		Waster Foundain, 5th Floor,
	2	WF - REV - 020-FI	ر ا		ALJACENT to 5th Floor Stairs West
	9	WF-REV-021-FI			Water Fountain, 5th Floor
	10	WF-REU-000-F			Tower Room between news , sommans , top of
		WE - REN-023-FD			Wade Tempera 4th Ener aldered
	12	WF - REV-024-F			to 4th Floor stars west Water Foundain, 3rd Floor
	13	WF - REV-025-	FO		Water Foundain, 3rd Floor,
	14	WF - REJ - 026-1	FL		Adjacent to 3rd TEOF stairs South
	15	WF- REV- 024-F	0	•	Wades FRUNTain, 312 Floor,
	16	WF- PEV- 025-			Advanted to and Floor Charles 10000
	17	WE - REV-09-F			Water Fountain Brd FIOOR bolly Tower Room, between news woillands to 11
	18	WF- 2EV-030-F			Towar proom, between news woillaws the
	19	WF - REV-031-F			
	20	WF - REJ-032-F	=L		Tower Room hoticen usus woodens
	21	5K- REV- 033-F	Ð		Employee, Lunch Room 2nd Here Cooking
	22	SK-REV -034-F			across From Mapping Unit
	22	WF -REV-035-F			Water Fountain 2nd Floor
	24	WF-REV-036-F			adjaunt to 2nd Elgos statis Wast
	25		A		Water Fountain, 1ST FLOOR
	26	WF-BEV-035-F			Lobby, outside of Room 135

PAGE OF 2

Page 21 of 25

	PBS	Engineering + Environmental	A6J2701 PBSEN1939		10/20/2016 10 LEAD IN DRINKING WATER TESTING PROGRAM							
	F D J	REVENUE			PROJECT #: PROJECT #: PROJECT #:							
	ANALYSIS REQUESTED: <u>Lead (PB) IN DRINKING WATER</u> <u>COPPER (CU) IN DRINKING WATER</u> <u>Lead (PB) IN DRINKING WATER</u>											
19.6		SIGNATURE: Mike Gol SIGNATURE: June	sen / Mr Kangell	n on	DATE/TIME: 10 2016 0900							
	EMAIL RESULT	rs TO: derek.may 2pbs	· · · · · · · · · · · · · · · · · · ·	DATA FO	TURN AROUND TIME: 2-10 days							
		o (110) = #		ROOM								
		SAMPLE#	BUILDING	RUUIW	WORKE FURNE ISE FLOOD VENding							

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
27	WF-REV-039-FD			Worker Foundain, 1St FLOOF, Vending Marchine Appen (near 1066) Warder Foundaring adjacent to pot Floor stairs North, Tower Room
28	WE-R2J-040-FL	-		Machine Area (near 10665)
27 28 29 30	WF-REJ-040-FL WF-REV-041-FD	2	101	water Foundary adjacent
30	WF-REU-042-FL		1	to pot Floor stairs North,
				Tower ROOM
14.000				

PAGE 2 OF 5

	Associates SR-FL-0002-16 Ample Integrity			A6J2701 10/20/2016 PBSEN1939 10							
BS	K Bottles: (Yes) No Page	e of _		_							
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (NA)	Wei	Were correct comainers and preservative received for the tests requested?			s ()	Yes)	No NA	
COC Info	If samples were taken today, is there evidence	Yes No	NA)	Wer	e there bubbles	bubbles in the VOA vials?			Yes No (NA		
	that chilling has begun? Did all bottles arrive unbroken and intact?		040		atiles Only) s a sufficient am	ount of sam		042	Yes		
8	Did all bottle labels agree with COC?		10	Do s	samples have a	hold time <7	72 hours?				
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No	NA)	Was PM:		discrepancie By/Time:	s?		Yes	0	
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) Bacti Na ₂ S ₂ O ₃	Checks	Pas	sed?	1-30	1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -					
	None (P) ^{White Cap}			-							
	Cr6 (P) LL Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N					alka kar	CALCE LAND OF	
	Cr6 (P) Pink Label/Blue Cap NH40H(NH4)2S04 WW	pH 9.3-9.7	Y	N							
the lah		pH 9.0-9.5	Y	N							
i. H	HNO3 (P) Ben Cap or HCI (P) Purple Cap/Lt. Blue Label				10						
had	H2SO4 (P) or (AG) Yellow Cap/Label		Y	N					and the second	Street Street Street	
erformed	NaOH (P) Green Cap	Cl, pH >10	Y	N			and the second second	1			
lan 1	NaOH + ZnAc (P)	pH > 9	Y	N	and the local straight series	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				and the second	
are		pir- a		- 18							
d N/A o	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		2.352	1000				0.000		States and the second	
ed						and the second					
eive either	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525		13 								
Received	Na ₂ O ₃ S 250mL (AG) ^{Neon Green Label} 515		1000	-				8			
les F ecks									66233		
t S	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 548, THM, 524							-	W. March		
orine orine	Na2S2O3 (CG) ^{Blue Label} 504, 505, 547										
		pH < 3	Y	N					1		
means preservation/ch	NH ₄ Cl (AG) ^{Purple Label} 552		<u> </u>	14							
eva	EDA (AG) ^{Brown Label} DBPs		N. C. C. S.							a contraction of the	
rese	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624		-								
ns p	Buffer pH 4 (CG)		14.57999						12 10 10 10 10 10 10 10 10 10 10 10 10 10	Contra Landa Sale and	
mea	H ₃ PO ₄ (CG) ^{Salmon Label}		P= 1 1								
Ī	Other:		1817 (<mark>1</mark> 7)								
=`	Asbestos 1Liter Plastic w/ Foil	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	-							
	Low Level Hg / Metals Double Baggie		_	-							
	Bottled Water Clear Glass 250mL / 500mL / 1 Liter	-	-								
	Clear Glass 250mL / 500mL / 1 Liter Soil Tube Brass / Steel / Plastic	_						NORTH CAL			
	Tedlar Bag / Plastic Bag	<u></u>									
it	Container Preservative Date/				Container	Prese	rvative	Date	e/Time	/Initials	
Split	S)P 250*	10.4000	-	Ρ							
	S P		S	Ρ			-				
Comments	* Odd	numbe	Rs	OV	ly. Rik)					

Labeled by: _____ @





PBSEN1939



PBS Environmental



10242016

Turnaround: Standard Due Date: 11/3/2016





Printed: 10/27/2016 9:47:21AM Page 1 of 1 Page 24 of 25

-	Associates SR-FL-0002-16 mple Integrity					J2701 SEN1939		10/20. 1			·····	
	K Bottles: (Yes) No Page	e of		_								
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (N	A)		re correct us				s (Yes	No	NA
Ifo	If samples were taken today, is there evidence	Yes No N	A)	We	re there bub	·				Yes	No (NA
COC Info	that chilling has begun? Did all bottles arrive unbroken and intact?	Yes No			latiles Only) s a sufficien	lom	ount of con		40	/ Yes	<u>} </u>	
Ö	Did all bottle labels agree with COC?	(Yes No			samples hav				<u>:u:</u>	Yes	<u> </u>	No No)
•	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No(N	A)		s PM notifie					Yes		(NA)
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pas	sed?	$1 - \frac{1}{2}$	30						
	Bacti Na ₂ S ₂ O ₃										<u>.</u>	
	None (P) ^{White Cap}		-									
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N		·.						
_	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	Y	N								
the lab	Cr6 (P) Black Label/Blue Cap NH40H(NH4)2S04 7199.	рН 9.0-9.5	Ŷ	N				-		Maria		
. <u>C</u>	HNO3 (P) Bed Cap or HCI (P) Purple Cap/Lt. Blue Label	_	_	- .								
performed in	H2SO4 (P) or (AG) Yellow Cap/Label	pH<2	Y	N								
ufor	NaOH (P) Green Cap	CI, pH >10	Y	N					1010 (Maria)		<u></u>	<u> </u>
	NaOH + ZnAc (P)	pH>9	Y	N								
r are	Dissolved Oxygen 300ml (g)						<u> </u>		l'an Chain		<u></u>	
/A o	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270			1999) 1999)								392
ed Z	HCI (AG) ^{Lt. Blue Label} O&G, Diesel			945-939 9	to a traditional		Pasén dén t					
Bottles Received	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525											
cec are	Na2O3S 250mL (AG) ^{Neon Green Label} 515		-				ya sa					No.
les F ecks	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549											<u> 1979)</u> 1
ttle chec	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524		- 1973	-	1			<u></u>				्र ज
orine Orine	Na2S2O3 (CG) ^{Blue Label} 504, 505, 547	<u></u>			la di ga≉∛.	<u></u>		d by Addison		14.90 M		
hlor											- <u>7</u> -5-7-7	
o/uc	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH≮3	Y	N		. 4			() states			
vati	NH ₄ CI (AG) ^{Purple Label} 552			_				Marina Marina and Andrews				
ser	EDA (AG) ^{Brown Label} DBPs	\rightarrow		-								
pre	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624			_								
ans	Buffer pH 4 (CG)	<u> </u>	-					an a				
Ĕ	H ₃ PO ₄ (CG) ^{Salmon Label}	- 	-					in the second				
ļ	Other:											
ŀ	Asbestos 1Liter Plastic w/ Foil		بند ر	-								
l.	Low Level Hg / Metals Double Baggie Bottled Water			-					· · · · ·			
ŀ	Clear Glass 250mL / 500mL / 1 Liter			5	~~12.5 <u>21.415.8</u> 3	<u>23.29</u>	2 - 2 ⁷ - 1 - 52) - 1 - 1					
ļ	Soil Tube Brass / Steel / Plastic		<u> </u>	.								
	Tedlar Bag / Plastic Bag			-	· · · · · · · · · · · · · · · · · · ·							
≝¢	Container Preservative Date/	Time/Initials			Contair	ler	Prese	ervative	Date	e/Time	e/Initi	als
Split	s) P 250*		+	Р			_					
Comments	sp *Odd	number	1	P Ol	nly. R	U	2					
	A PECETUED ALL 250 ed by: @ Labels chec	Poly o						-151	}			25 of 2



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



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

RE: Report for A6J3312 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 10/26/2016. 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**



A6J3312 Oregon DAS - Lead

Case Narrative

Project and	Report Details	Invoice Details
Client:	PBS Environmental	Invoice To: PBS Environmental
Report To:	Derek May	Invoice Attn: Accounts Payable
Project #:	Revenue #25103.003 PH 25	Project PO#: -
Received:	10/26/2016 - 17:15	
Report Due:	11/10/2016	
Sample Rec	eipt Conditions	
	ault Cooler on Receipt °C: 20.4	Containers Intact COC/Labels Agree Received with no thermal preservation. Sample(s) split after receipt at the laboratory. Initial receipt at BSK-VAL
Data Quali	fiers	
The following	g qualifiers have been applie	d to one or more analytical results:
None applie	d	

Report Distribution

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	beth.powers@pbsenv.com



Sample ID: A6J3312-01 Sampled By: Client Sample Description: SK-REV-043-FD // Cafe Handwash station kitchen sink Sample Date - Time: 10/15/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615128	11/02/16	11/02/16	



Sample ID: A6J3312-03 Sampled By: Client Sample Description: SK-REV-045-FD // Cafe Dishwash area kitchen sink Sample Date - Time: 10/15/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	0.0013	0.0010	mg/L	1	A615128	11/02/16	11/02/16	



Sample ID: A6J3312-05 Sampled By: Client Sample Description: SK-REV-047-FD // Cafe Food prep area 1 kitchen sink Sample Date - Time: 10/15/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615128	11/02/16	11/02/16	



Sample ID: A6J3312-07 Sampled By: Client Sample Description: SK-REV-049-FD // Cafe Food prep area 2 kitchen sink Sample Date - Time: 10/15/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615128	11/02/16	11/02/16	



Sample ID: A6J3312-09 Sampled By: Client Sample Description: SK-REV-051-FD // Cafe Food prep area 3 kitchen sink Sample Date - Time: 10/15/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615128	11/02/16	11/02/16	



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 20	00.8 - Q	uality Co	ntrol						
Batch: A615128 Prep Method: EPA 200.2										•	d: 11/2/2016 alyst: GNG
Blank (A615128-BLK1) Lead	ND	0.0010	mg/L							11/02/16	
Blank Spike (A615128-BS1) Lead	0.098	0.0010	mg/L	0.10		98	85-115			11/02/16	
Blank Spike Dup (A615128-BSD1) Lead	0.098	0.0010	mg/L	0.10		98	85-115	0	20	11/02/16	
Matrix Spike (A615128-MS1), Source: Lead	A6J3246-41 0.20	0.0020	mg/L	0.20	ND	101	70-130			11/02/16	
Matrix Spike (A615128-MS2), Source: Lead	A6J3305-04 0.19	0.0020	mg/L	0.20	ND	95	70-130			11/02/16	
Matrix Spike Dup (A615128-MSD1), S Lead	ource: A6J3246-41 0.20	0.0020	mg/L	0.20	ND	100	70-130	1	20	11/02/16	
Matrix Spike Dup (A615128-MSD2), S Lead	ource: A6J3305-04 0.19	0.0020	mg/L	0.20	ND	96	70-130	1	20	11/02/16	



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

2 - 20 - 20 - 20 - 20	PBS	Engineering + Environmenta	PB	J3312 SEN1939	10/26/2016 10 AD IN DRINKING WATER TESTING PROGRAM 25103.003	
	FACILITY NA	ME: REVENUE			PROJECT #: PH	25
	RELINQ'D BY	V LEAD (PB) IN DRIN COPPER (CU) IN D VSIGNATURE: M.K.C.G. V/SIGNATURE: V	placen / This	hit	DATE: 10 15 2016 DATE/TIME: 10 21 2016 1500 DATE/TIME: 10 26 16 5.150	ישי ס א
					TURN AROUND TIME: 7-10 days	
			SAMPLE	DATA FO	DRM	
	LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM	-
	<u> </u>	SK-REY-043-FD.		CAFE	HAND WASH STAFTION KITCHEN	5
		SK-REV-044-FL		1	- SINK	
	3	SK-REV-045-FD			DISH WASH ARTON, KITCHEN SINK	
	4	SK-REV-046-FU				
			=0		FOOD PREP AREA 1, KITCHEN SINK	
	¥ 2	SEREN-040-H	· ·		t or	
	7	SK-REV-049-			FOOD PROP AREA 2 (LITCHEN SW	0
	. 8	SK-REN- OCO-1	2	Y	Ø) (
		SK-REV-051-FD			FOOD PEOR ADER 3, KITCHEN SIM	K
	-10	SK-REV- OSD-F		V	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
			······································		•	
		•				
			······································	1	-	
	50				100 A	

-	AssociatesSR-FL-0002-16A6J331210/26/2016ample IntegrityPBSEN193910											
	SK Bottles: Yes No Page	e of	1						3			
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (1	NA)	We	re correct contain eived for the tests	iers anu p s requeste	ieservauv d?	=5 ([Yes	No NA		
COC Info	If samples were taken today, is there evidence that chilling has begun?	Yes No (YA	10/ 11 1 111		es in the VOA vials?			Yes	No (NA)		
	Did all bottles arrive unbroken and intact? Did all bottle labels agree with COC?	Yes No Yes No		Was	s a sufficient amo	ent amount of sample recei						
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)		Do samples have a h Was PM notified of di PM: E		liscrepand	Yes		(No) No NA)			
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pas	sed?	1 - 10	By/Time:	1		1			
	Bacti Na ₂ S ₂ O ₃	-	-	-					F A SE			
	None (P) ^{White Cap}	-	-	_								
8	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N								
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	Y	Ν								
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199	pH 9.0-9.5	Y	N								
	HNO3 (P) Red Cap or HCI (P) Purple Cap/Lt. Blue Label	<u>—</u>	-	_	10,	ulixe a			-			
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label NaOH (P) Green Cap	pH < 2	Y	N								
	NaOH (P) Green Cap	Cl, pH >10	Y	N	and the second							
	NaOH + ZnAc (P)	pH > 9	Y	N		Recipien						
	Dissolved Oxygen 300ml (g)		-	-								
<								ta interior	Russer 1			
red N			12.54									
Bottles Received	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525											
Sec	Na2O3S 250mL (AG) ^{Neon Green Label} 515		14.85	-		100 100 100 100 100 100 100 100 100 100		10 10 10 10 10 10				
Si la	Na2S2O3 1 Liter (Brown P) 549	-	1									
ttles l	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524			-								
Bo	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524 Na2S2O3 (CG) ^{Blue Label} 504, 505, 547		-	-			1.1	a second		· · · ·		
oldo				-								
		pH < 3	Y.	N								
iter	NH4CI (AG) ^{Purple Label} 552		-	-								
/uniterion/	EDA (AG) ^{Brown Label} DBPs	-	-	-								
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		-	-								
sugar	Buffer pH 4 (CG)	—		-								
Ê		-	-	-								
3	Other: Asbestos 1Liter Plastic w/ Foil	State of the local day of the local day								and the second		
	Asbestos 1Liter Plastic w/ Foil Low Level Hg / Metals Double Baggie		10-			all a strengt						
	Bottled Water		392					and a street				
	Clear Glass 250mL / 500mL / 1 Liter	_										
	Soil Tube Brass / Steel / Plastic		-	- 1 4						11212-122		
	Tedlar Bag / Plastic Bag			-		and the second second						
Split		Time/Initials		_	Container	Prese	ervative	Date	te/Time/Initials			
S	(S)P 250¥ S P		S S	P P								
1962514		~				1						
Comments	* Odd numbe	rs on	leg.	Re	R							
umo	0		0									
Ŭ												

-		ates SR-FL-0002-10					A6J3 PBSI	EN1939		0/26/2 10	016	
BS		Bottles: Ye	/	ge of								J
	Was	s temperature within mistry ≤ 6°C Mi	range?	Yes No	(NA)	Wei	re correct come	iniers anu p	กระยางสมพ	5 7	Yes	No NA
1	If sa	mples were taken t	oday, is there evidence		X		eived for the tes					
1 5	that	chilling has begun?	?	Tes No			Were there bubbles in the VOA vials? (Volatiles Only)					No (NA)
COC Info		all bottles arrive un all bottle labels agr	broken and intact?	Yes	No	Was	s a sufficient an	nount of sa	mple recei	ved?	Ye	<u> </u>
0			added to CN sample(s		No		samples have a s PM notified of			?	Ye	s (No)
L	until	chlorine was no lo	nger present?	Yes No	(NA)	PM:		By/Time:	165:		Yes	NO NA)
			ter(C) 40ml VOA(V)	Checks	Pa	ssed?	1- i0					
		ti Na ₂ S ₂ O ₃			281	÷			Kurdese	1.1	3.04	
		e (P) ^{White Cap}			-							
	_	the second state and the second state of the s	Cap NH4OH(NH4)2SO4 D	N CI, pH > 8	Y	N	Section 201					
		(P) Pink Label/Blue Cap		N pH 9.3-9.7	Y	N						
the lab	Cr6	the local sector and the sector sector sector	HOLD TIME ***	рн 9.0-9.5	Y	N						
. <u>.</u>	HNC	D3 (P) Red Cap pr HC	CI (P) Purple Cap/Lt, Blue Labe	·		-	IC					Life The Post of State
performed in	H ₂ S0	04 (P) or (A	G) Yellow Cap/Label	pH < 2	Y	N			1. S. S. S. S.	Resid	いた	
erfo	NaO	H (P) ^{Green Cap}	0	Cl, pH >10	Y	N						USE NOTING SET A
are D		H + ZnAc (P)		pH > 9	Y	N		L'EST STAT		HURG	5.0010	
ora	Dissolved Oxygen 300ml (g)			_		-	and the state of the			18 1894 18	120205	and the start of the
≦	None	e (AG) 608/8081/808	2, 625, 632/8321, 8151, 8270			-			STATES	a baa	1	No.
Ved		(AG) ^{Lt. Blue Label} O			0 24543					18 (C. 1995)	Ser Leng	的人们是另外中心。
Received are either N			Ct (AG)Pink Label 525		-	-				-		
Rec	1	03S 250mL (AG)		19 <u>19 19 19</u> 19 19	1993	-	S	25966886	THE PARTY	a beren	en etti mär	- Internet
es	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549			CARAGE CONTRACTOR	8114698	0.03		200 x1 0 0.2340		15916	19:33	es attact as
Bottles ne checks	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524			Carrier and Carrier	0.05	1953		-		10-10-0	0.545.070	CONTROL BASSO
Line B		2O3 (CG) Blue Label			N ASPEND			P. P. C. Street	162313131	01872020	10.3	and the second second
B chlorin	00.00	203 + MCAA (CO		pH < 3	V	N	2000 - States	Parentania	The second	0.67/65974	1001000	0.000000000
preservation/c		CI (AG) ^{Purple Label}		prints	12.6	IN						
IVa	Concernant States	(AG) ^{Brown Label} D		-	- Soorgell	100.000	A MARK OF MARKED AND	643 (APA) (1974)	100.00.00000			
ese	10,00110,00011		STREET, OLD AND ADDREED AND ADDREED	<u> </u>	1	÷.			1236			
	TT	and the second se	Sas, MTBE, 8260/624	The second second	RETAIL		Mischennesson					
leans	C. LEWISCON,	r pH 4 (CG)			1	T						19242 (1999) - 3000 (1992) 1939 - 2014
1 1	Other	04 (CG) ^{Salmon Label}		-	0.15		1214-15795					A State
	Asbe	the second se	stic w/ Foil		retic	PRE-	04545454586088		6745/675188 1	de entreta	its String 2	APRIL OF STREET
1		evel Hg / Metals	the property of the second secon		19.25	-					(C1-20/3	
	and the second se	ed Water	1. 1. 水平 原力定		612	-	1000000000	S. Wall	1.02.23	ESON:	0.00	22023
		Glass 250mL		_	_	-						1000 00 00 00 00 00 00 00 00 00 00 00 00
	Soil T		Steel / Plastic		100	-1943		的性心的情				
	Teula	Container	tic Bag Preservative Da	te/Time/Initials			Container					
Split	SP	250*	Trescivative Da	ter rimermillar		P	Container	Pres	ervative	Date	e/Time	e/Initials
S	SP	200			_	P					_	
Comments			* Odd num All cont	clivers on	_		r Lintact	1.1 00-				
Labele	ed by:	@	Labels ch			@		RUSH Pa	and hu		Page	12 of 12

Labeled	by:
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3



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



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

RE: Report for A6K0414 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 11/2/2016. 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**



A6K0414 Oregon DAS - Lead

Case Narrative

Project and	Report Details	Invoice Details							
Client:	PBS Environmental	Invoice To: PBS Environmental							
Report To:	Derek May	Invoice Attn: Accounts Payable							
Project #:	Revenue #25103.003 PH 25	Project PO#: -							
Received:	11/02/2016 - 11:36								
Report Due:	11/16/2016								
Sample Receipt Conditions									
	ault Cooler on Receipt °C: 20.0	Containers Intact COC/Labels Agree Received with no thermal preservation. Sample(s) split after receipt at the laboratory. Initial receipt at BSK-VAL							
Data Quali	fiers								
The following	g qualifiers have been applie	d to one or more analytical results:							
None applie	d								

Report Distribution

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	beth.powers@pbsenv.com



Sample ID: A6K0414-01	Sample Date - Time: 11/01/16 - 00:00
Sampled By: Client	Matrix: Drinking Water
Sample Description: SK-REV-053-FD // Room 357 3rd Floor Breakroom kitchenette	Sample Type: First Draw
sink	

BSK Associates Fresno

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615373	11/08/16	11/08/16	



BSK Associates Fresno Metals Quality Control Report

				0.1.1.01							
				Spike	Source		%REC		RPD	Date	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A615373	Batch: A615373 Prepared: 11/8/2016										
Prep Method: EPA 200.2										A	nalyst: PSK
Blank (A615373-BLK1)											
Lead	ND	0.0010	mg/L							11/08/16	
Blank Spike (A615373-BS1)											
Lead	0.10	0.0010	mg/L	0.10		102	85-115			11/08/16	
Leau	0.10	0.0010	ilig/L	0.10		102	00-110			11/00/10	
Blank Spike Dup (A615373-BSD1)											
Lead	0.10	0.0010	mg/L	0.10		101	85-115	1	20	11/08/16	
Matrix Spike (A615373-MS1), Source: A	6K0695-41										
Lead	0.20	0.0020	mg/L	0.20	0.0048	98	70-130			11/08/16	
Matrix Spike (A615373-MS2), Source: A	6K0414-01										
Lead	0.20	0.0020	mg/L	0.20	ND	99	70-130			11/08/16	
			-								
Matrix Spike Dup (A615373-MSD1), Sou											
Lead	0.20	0.0020	mg/L	0.20	0.0048	99	70-130	1	20	11/08/16	
Matrix Spike Dup (A615373-MSD2), Sou	urce: A6K0414-01										
Lead	0.20	0.0020	mg/L	0.20	ND	100	70-130	1	20	11/08/16	



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

	PBS	Engineering + Environmental	A6K0414 PBSEN19	39	10/26/2016 10 LEAD IN DRINKING WATER TESTING PROGRAM 25103.003
	FACILITY NAN	E: REVENUE	•		PROJECT #: PH 25
	RELINQ'D BY	QUESTED: <u>Lead (Pb) in Drink</u> <u>Copper (Cu) in Dri</u> /Signature: <u>Wike Gol</u>	NKING WATER	n.A.	DATE: 11/1/2016 DATE/TIME: 11/1/2016 1300 DATE/TIME: 11/2/16 11/36
20.0		LTS TO: derek.may Ppbs	senv.com	e	TURN AROUND TIME: 7-10 days
	,		•		
			SAMPLE	DATA FO	RM
	LAB	SAMPLE#	BUILDING	ROOM	
э	. 2	5K-REV-053-FD 5K-REV-054-FL	, introduction and a second	367	. 3rd Floor Breakroom, Kitchenette, Kitchen Suk
		-	Barran attes		
				-	
					· · · · · · · · · · · · · · · · · · ·
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	- 				

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PBS ENGINEERING + ENVIRONMENTAL, 4412 SW Corbett Avenue, Portland, Oregon 9

PAGE 1 OF

1000	Associates SR-FL-0002-16 ample Integrity				A Pl)	10/26/2016			
B	SK Bottles: Yes No Page	eof_		_						
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (NA)	We	re correct current	the tests requested?				
COC Info	If samples were taken today, is there evidence that chilling has begun?	Yes No (I	NA	received for the tests requested? Were there bubbles in the VOA vials?						~~~~
2	Did all bottles arrive unbroken and intact?	a	No		atiles Only) s a sufficient am	ount of cou	mplo reasi	Yes No (NA)		
6			No	Do	samples have a	hold time	<pre><72 hours'</pre>	ved ?	Yes Yes	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (1	NA)	Wa PM:	s PM notified of	discrepand	ies?			No NA)
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pas	sed?	1-2	By/Time:	1	L		
	Bacti Na ₂ S ₂ O ₃		-	-			The Kinese		1993	has so the second second
	None (P) ^{White Cap}		-						- State State	
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N						
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	Y	N						
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 <u>***24 HOUR HOLD TIME***</u> HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	pH 9.0-9.5	Y	N						
		-			10,					
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label NaOH (P) Green Cap	pH < 2	Y.	N					Contraction of the	
-	NaOH (P) Green Cap	Cl, pH >10	Y	N						
		pH > 9	Y	N					ALC: NO	MARKEN AND MARK
	Dissolved Oxygen 300ml (g)									20
5	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270					and an and	Section 2			
be		March and a state								
ttles Received	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525			-						
	Na2O3S 250mL (AG) ^{Neon Green Label} 515		0.038	-						
					SAFARA DATA BU					
Bottles	Na2S2O3 (AG) ^{Blue Label} 548, THM, 524			Realized			-			
B B				-						
Bhoriad	Na2S2O3 + MCAA (CG) ^{Orange Label} 531			-						
means presentation/o		pH < 3	Y	N			a final and a second			
totu	NH4CI (AG) ^{Purple Label} 552		_	-						
000	EDA (AG) ^{Brown Label} DBPs	-	de la co	•						
10 0	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	-								
Lean	Buffer pH 4 (CG)	-								
ם ו ^ב										
3	Other: Asbestos 1Liter Plastic w/ Foil		100.253	Sector 1	and the second second second					
	Low Level Hg / Metals Double Baggie						and the second			
	Bottled Water	-						10000000000		
	Clear Glass 250mL / 500mL / 1 Liter	_							1055 200	
	Soil Tube Brass / Steel / Plastic		_							
	Tedlar Bag / Plastic Bag Container Preservative Date/	—								
Split	SP 250 ¥	Fime/Initials	s	_	Container	Prese	ervative	Date/	lime/	Initials
S	S P		S				and the second			
S			-		0					
Comments	* Odd numbe	rs on	y.	ľ						