



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
Justice Building
1162 Court Street NE
Salem, Oregon 97301
PBS Project # 25103.003 Phase 0015

Dear Mr. Miller:

On October 12 and 13, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Justice building located at 1162 Court 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.

Forty-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.

Lead concentrations in all of the first draw samples were undetectable according to laboratory analysis, indicating that all of these drinking water samples contained lead well 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

First Draw Drinking Water Sample Locations and Lead Concentrations

Sample Number	Sample Location	Lead Concentration (ppb)
SK-JUB-001-FD	Executive services break room kitchen sink fifth floor	ND
SK-JUB-003-FD	Room 503 conference room 505 break room kitchen sink fifth floor	ND
WF-JUB-005-FD	Upper water fountain next to custodial/electrical room fifth floor	ND
WF-JUB-007-FD	Lower water fountain next to custodial/electrical room fifth floor	ND
S-JUB-009-FD	Supply room sink fourth floor	ND
SK-JUB-011-FD	Coffee / break room kitchen sink fourth floor	ND
WF-JUB-013-FD	Upper water fountain next to custodial/electrical room fourth floor	ND
WF-JUB-015-FD	Lower water fountain next to custodial/electrical room fourth floor	ND
SK-JUB-017-FD	Room 303 conference room 305 break room kitchen sink third floor	ND
WF-JUB-019-FD	Upper water fountain next to custodial/electrical room third floor	ND
WF-JUB-021-FD	Lower water fountain next to custodial/electrical room third floor	ND
SK-JUB-023-FD	Kitchenette kitchen sink second floor	ND
WF-JUB-025-FD	Upper water fountain next to custodial/electrical room second floor	ND
WF-JUB-027-FD	Lower water fountain next to custodial/electrical room second floor	ND
SK-JUB-029-FD	Kitchenette sink first floor	ND
WF-JUB-031-FD	Upper water fountain between men's room and kitchenette first floor	ND
WF-JUB-033-FD	Lower water fountain between men's room and kitchenette first floor	ND
WF-JUB-035-FD	Water fountain near main entry first floor	ND
WF-JUB-037-FD	Basement lower water fountain between men's and women's bathroom	ND
WF-JUB-039-FD	Basement upper water fountain between men's and women's bathroom	ND
SK-JUB-041-FD	Basement coffee station kitchen sink	ND
SK-JUB-043-FD	Coffee room district attorney's office, third floor kitchen sink	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.

A handwritten signature in black ink that reads "S. Derek May". The signature is written in a cursive, slightly slanted style.

Derek May, Principal

Attachments: Laboratory Results
Chain of Custody Form

DM::bmp

The information contained in this document is proprietary and shall not be duplicated, used, or disclosed in whole or in part to other parties without the permission of PBS.



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



A6J1886
10/25/2016

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

RE: Report for A6J1886 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

Case Narrative

Project and Report Details	Invoice Details
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Client: PBS Environmental Report To: Derek May Project #: Justice Building #25103.003 PH 15 Received: 10/13/2016 - 09:00 Report Due: 10/27/2016	Invoice To: PBS Environmental Invoice Attn: Accounts Payable Project PO#: -
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 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
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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	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-01

Sampled By: Client

Sample Description: SK-JUB-001-FD // Executive services breakroom kitchen sink
5th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-03

Sampled By: Client

Sample Description: SK-JUB-003-FD // Room 503 Conference room 505 breakroom kitchen sink 5th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-05

Sampled By: Client

Sample Description: WF-JUB-005-FD // Upper water fountain next to custodial/electrical room 5th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-07

Sampled By: Client

Sample Description: WF-JUB-007-FD // Lower water fountain next to custodial/electrical room 5th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-09

Sampled By: Client

Sample Description: S-JUB-009-FD // Supply room sink 4th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-11

Sampled By: Client

Sample Description: SK-JUB-011-FD // Coffee/Breakroom kitchen sink 4th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-13

Sampled By: Client

Sample Description: WF-JUB-013-FD // Upper water fountain next to custodial/electrical room 4th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-15

Sampled By: Client

Sample Description: WF-JUB-015-FD // Lower water fountain next to custodial/electrical room 4th Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-17

Sampled By: Client

Sample Description: SK-JUB-017-FD // Room 303 conference room 305 breakroom kitchen sink 3rd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-19

Sampled By: Client

Sample Description: WF-JUB-019-FD // Upper water fountain next to custodial/electrical room 3rd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-21

Sampled By: Client

Sample Description: WF-JUB-021-FD // Lower water fountain next to custodial/electrical room 3rd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-23

Sampled By: Client

Sample Description: SK-JUB-023-FD // Kitchenette kitchen sink 2nd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-25

Sampled By: Client

Sample Description: WF-JUB-025-FD // Upper water fountain next to custodial/electrical room 2nd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-27

Sampled By: Client

Sample Description: WF-JUB-027-FD // Lower water fountain next to custodial/electrical room 2nd Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-29

Sampled By: Client

Sample Description: SK-JUB-029-FD // Kitchenette sink 1st Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-31

Sampled By: Client

Sample Description: WF-JUB-031-FD // Upper water fountain between men's room and kitchenette 1st Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-33

Sampled By: Client

Sample Description: WF-JUB-033-FD // Lower water fountain between men's room and kitchenette 1st Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-35

Sampled By: Client

Sample Description: WF-JUB-035-FD // Water fountain near main entry 1st Floor

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-37

Sampled By: Client

Sample Description: WF-JUB-037-FD // Basement lower water fountain between men's and women's bathroom

Sample Date - Time: 10/12/16 - 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	A614373	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-39

Sampled By: Client

Sample Description: WF-JUB-039-FD // Basement upper water fountain between men's and women's bathroom

Sample Date - Time: 10/12/16 - 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	A614384	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-41

Sampled By: Client

Sample Description: SK-JUB-041-FD // Basement coffee station kitchen sink

Sample Date - Time: 10/12/16 - 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	A614384	10/19/16	10/19/16	



A6J1886

Oregon DAS - Lead

Justice Building #25103.003 PH 15

Certificate of Analysis

Sample ID: A6J1886-43

Sampled By: Client

Sample Description: SK-JUB-043-FD // Coffee room District Attorney Office, 3rd Floor kitchen sink

Sample Date - Time: 10/13/16 - 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	A614535	10/21/16	10/21/16	

BSK Associates Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A614373

Prepared: 10/19/2016

Prep Method: EPA 200.2

Analyst: GNG

Blank (A614373-BLK1)

Lead ND 0.0010 mg/L 10/19/16

Blank Spike (A614373-BS1)

Lead 0.11 0.0010 mg/L 0.10 107 85-115 10/19/16

Blank Spike Dup (A614373-BSD1)

Lead 0.11 0.0010 mg/L 0.10 107 85-115 1 20 10/19/16

Matrix Spike (A614373-MS1), Source: A6J1885-01

Lead 0.20 0.0020 mg/L 0.20 0.0020 101 70-130 10/19/16

Matrix Spike (A614373-MS2), Source: A6J1886-19

Lead 0.21 0.0020 mg/L 0.20 ND 104 70-130 10/19/16

Matrix Spike Dup (A614373-MSD1), Source: A6J1885-01

Lead 0.21 0.0020 mg/L 0.20 0.0020 102 70-130 1 20 10/19/16

Matrix Spike Dup (A614373-MSD2), Source: A6J1886-19

Lead 0.21 0.0020 mg/L 0.20 ND 103 70-130 1 20 10/19/16

EPA 200.8 - Quality Control

Batch: A614384

Prepared: 10/19/2016

Prep Method: EPA 200.2

Analyst: GNG

Blank (A614384-BLK1)

Lead ND 0.0010 mg/L 10/19/16

Blank Spike (A614384-BS1)

Lead 0.098 0.0010 mg/L 0.10 98 85-115 10/19/16

Blank Spike Dup (A614384-BSD1)

Lead 0.098 0.0010 mg/L 0.10 98 85-115 0 20 10/19/16

Matrix Spike (A614384-MS1), Source: A6J1785-21

Lead 0.20 0.0020 mg/L 0.20 0.0029 101 70-130 10/19/16

Matrix Spike (A614384-MS2), Source: A6J1750-01

Lead 0.20 0.0020 mg/L 0.20 ND 100 70-130 10/19/16

Matrix Spike Dup (A614384-MSD1), Source: A6J1785-21

Lead 0.20 0.0020 mg/L 0.20 0.0029 99 70-130 1 20 10/19/16

Matrix Spike Dup (A614384-MSD2), Source: A6J1750-01

Lead 0.20 0.0020 mg/L 0.20 ND 102 70-130 2 20 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
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EPA 200.8 - Quality Control

Batch: A614535

Prepared: 10/21/2016

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: GNG

Blank (A614535-BLK1)

Lead	ND	0.0010	mg/L							10/21/16	
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Blank Spike (A614535-BS1)

Lead	0.11	0.0010	mg/L	0.10		110	85-115			10/21/16	
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Blank Spike Dup (A614535-BSD1)

Lead	0.11	0.0010	mg/L	0.10		110	85-115	1	20	10/21/16	
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Matrix Spike (A614535-MS1), Source: A6J1886-43

Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130			10/21/16	
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Matrix Spike (A614535-MS2), Source: A6J2165-01

Lead	0.22	0.0020	mg/L	0.20	ND	108	70-130			10/21/16	
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Matrix Spike Dup (A614535-MSD1), Source: A6J1886-43

Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130	0	20	10/21/16	
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Matrix Spike Dup (A614535-MSD2), Source: A6J2165-01

Lead	0.22	0.0020	mg/L	0.20	ND	108	70-130	0	20	10/21/16	
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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



Engineering + Environmental

Add to AbJ1886
COPY w/ addition

OREGON DAS
LEAD IN DRINKING WATER TESTING PROGRAM

A6J1886
PBSEN1939

10/13/2016
10

25103.003

PH 15

FACILITY NAME: JUSTICE BUILDING



ANALYSIS REQUESTED:

- LEAD (PB) IN DRINKING WATER
- COPPER (CU) IN DRINKING WATER

DATE: 10/12/16

RELINQ'D BY/SIGNATURE: Mike Golden

DATE/TIME: 10/12/16 1700

205° RECEIVED BY/SIGNATURE: Genevieve Ranzell 10/17/16

DATE/TIME: 10/13/16 1400

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
	WF-JUB-027-FD			Water Fountain (lower) 2nd floor
	WF-JUB-028-FL			next to custodial/Electrical Room
	SK-JUB-029-FD			Kitchenette, 15 th Floor, Kitchen
	SK-JUB-030-FL			Sink
	WF-JUB-031-FD			Water Fountain (upper) 15 th Floor
	WF-JUB-032-FL			between mens room and kitchenette
	WF-JUB-033-FD			Water Fountain (lower) 15 th Floor
	WF-JUB-034-FL			between mens room and kitchenette
	WF-JUB-035-FD			Water Fountain, 15 th Floor,
	WF-JUB-036-FL			Near Main Entry
	WF-JUB-037-FD			Water Fountain, Basement (lower)
	WF-JUB-038-FL			between mens and womens bathroom
	WF-JUB-039-FD			Water Fountain, Basement (lower)
	WF-JUB-040-FL			between mens and womens bathroom
	SK-JUB-041-FD			Coffee Station/Kitchenette
	SK-JUB-042-FL			Basement, Kitchen Sink
43	SK-JUB-043-FD			Coffee Room, District Attorney
44	SK-JUB-044-FL			office, 3 rd Floor, Kitchen Sink

10/13/16

Sample Integrity

A6J1886
PBSEN1939

10/13/2016
10



BSK Bottles: Yes No

Page 1 of 1

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

Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
	Bacti Na ₂ S ₂ O ₃	—	—						
	None (P) ^{White Cap}	—	—						
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH/(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y N						
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH/(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y N						
	Cr6 (P) Black Label/Blue Cap NH ₄ OH/(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y N						
	HNO ₃ (P) ^{Red Cap} or HCl (P) Purple Cap/Lt. Blue Label	—	—						
	H ₂ SO 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 ₂ Ct (AG) ^{Pink Label} 525	—	—						
	Na ₂ O ₃ S 250ml (AG) ^{Neon Green Label} 515	—	—						
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—						
	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 548, THM, 524	—	—						
	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547	—	—						
	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH < 3	Y N						
	NH ₄ Cl (AG) ^{Purple Label} 552	—	—						
	EDA (AG) ^{Brown Label} DBPs	—	—						
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—						
	Buffer pH 4 (CG)	—	—						
	H ₃ PO 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. RIL



A6J1886



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PBSEN1939

Turnaround: Standard
Due Date: 10/27/2016



PBS Environmental



Sample Integrity



BSK Bottles: Yes No Page 1 of 1

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

Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks		Passed?					
		Y	N	Y	N				
	Bacti Na ₂ S ₂ O ₃	—	—	—	—				
	None (P) White Cap	—	—	—	—				
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y	N					
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y	N					
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N					
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—	—	—				
	H ₂ SO 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 ₂ Ct (AG) Pink Label 525	—	—	—	—				
	Na ₂ O ₃ 250mL (AG) Neon Green Label 515	—	—	—	—				
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—	—	—				
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—	—	—				
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—	—	—				
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N					
	NH ₄ Cl (AG) Purple Label 552	—	—	—	—				
	EDA (AG) Brown Label DBPs	—	—	—	—				
	HCL (CG) 524 2,BTEX, Gas, MTBE, 8260/624	—	—	—	—				
	Buffer pH 4 (CG)	—	—	—	—				
	H ₃ PO 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
	<u>S</u>	<u>P</u>	250R		<u>S</u>	<u>P</u>		
	<u>S</u>	<u>P</u>			<u>S</u>	<u>P</u>		

Comments: * Odd numbers only. RUC
all samples received 10/13/16