



DATE: February 10, 2017

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for January 2017
Bull Run Treatment Variance and LT2ESWTR Round 2
Intake *Cryptosporidium* Results
PWS # 4100657**

To Whom It May Concern:

Enclosed are results of laboratory analyses for *Cryptosporidium* from the Bull Run raw water intake for January. Monitoring for *Cryptosporidium* at the Bull Run intake is done to comply with the conditions of Portland's Bull Run Treatment Variance (OHA Final Order, March 14, 2012). On January 6, 2017, PWB received notification that two *Cryptosporidium* oocysts were detected in a sample collected January 2. In accordance with the Final Order, Demonstration Monitoring began the following week on January 8, 2017. Oocysts were also later detected in samples collected January 3 and January 25. Per OHA, Samples collected the week of January 2 are considered part of Observation Monitoring and any samples collected after January 6 fall under Demonstration Monitoring. Compliance turbidity readings at the intake for the reporting month were not greater than 2.0 NTU.

This data is also being submitted to meet the requirements for the second round of monitoring for the Long Term 2 Enhanced Surface Water Treatment Rule. The samples collected on January 3rd and 31st are designated as the "LT2 Round 2" samples, in accordance with PWB's LT2 Round 2 source water monitoring plan submitted to OHA on December 12, 2014.

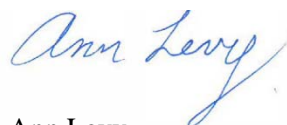
Analytical Services, Inc. completed the analysis for *Cryptosporidium* (see attached report). Results for the reporting month, previous eleven months, and Demonstration Monitoring to date are summarized below:

***Cryptosporidium* Data Summary for the Reporting Month, Previous Eleven Months, and Demonstration Monitoring**

Date Range		Total Field Samples	Total Field Sample Volume (L)	Total No. Oocysts Counted in Field Samples	Total Matrix Spikes	Average Matrix Spike Recovery (%)
Reporting Month:	1/01/2017-1/31/2017	20	1000	6	3	37.7
Previous 11 Months:	02/01/2016-12/31/2016	199	4918.8	0	23	40.7
Demonstration Monitoring	1/08/2017-1/31/2017	18	900.0	1	2	37.4

If you have any questions regarding these results, please contact me at 503-823-6135.

Sincerely,



Ann Levy
Environmental Program Manager

Transmitted: Two pages (including this transmittal memo) emailed to dwp.dmce@state.or.us on this date.



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Cryptosporidium Laboratory Analysis Report

<u>Water System Information</u>		<u>Sample Information</u>	
PWS ID:	OR4100657	Collection Month & Year:	January 2017
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227	Report Date:	February 8, 2017
County:	Multnomah	Monitoring Regime:	Observation & Demonstration
		Source Water:	Bull Run Intake - WTP-A

Analytical Services, Inc. (ASI)

PWB Sample ID	Loc ID	Sample Collection Date	Sample Type	Sample Volume Filtered (L)	No. of Oocysts Spiked	No. of Oocysts Counted	No. Oocysts per Liter	Matrix Spike Recovery (%)	Analysis Method
BB81810	Intake 2PIS	1/2/2017	Field	50.0	0	2	0.04		EPA 1623
BB81690	Intake 2PIS	1/3/2017	Field	50.0	0	3	0.06		EPA 1623
BB81691	Intake 2PIS	1/3/2017	MS	50.7	99	41	0.81	38.3	EPA 1623
BB81957	Intake 2PIS	1/8/2017	Field	50.0	0	0	0.00		EPA 1623
BB81959	Intake 2PIS	1/9/2017	Field	50.0	0	0	0.00		EPA 1623
BB82202	Intake 2PIS	1/10/2017	Field	50.0	0	0	0.00		EPA 1623
BB82005	Intake 2PIS	1/10/2017	Field	50.0	0	0	0.00		EPA 1623
BB82267	Intake 2PIS	1/11/2017	Field	50.0	0	0	0.00		EPA 1623
BB82391	Intake 2PIS	1/15/2017	Field	50.0	0	0	0.00		EPA 1623
BB82394	Intake 2PIS	1/16/2017	Field	50.0	0	0	0.00		EPA 1623
BB82397	Intake 2PIS	1/17/2017	Field	50.0	0	0	0.00		EPA 1623
BB82398	Intake 2PIS	1/17/2017	Field	50.0	0	0	0.00		EPA 1623
BB82432	Intake 2PIS	1/18/2017	Field	50.0	0	0	0.00		EPA 1623
BB82697	Intake 2PIS	1/22/2017	Field	50.0	0	0	0.00		EPA 1623
BB82699	Intake 2PIS	1/23/2017	Field	50.0	0	0	0.00		EPA 1623
BB82695	Intake 2PIS	1/23/2017	Field	50.0	0	0	0.00		EPA 1623
BB82696	Intake 2PIS	1/23/2017	MS	51.0	99	41	0.80	41.4	EPA 1623
BB82721	Intake 2PIS	1/24/2017	Field	50.0	0	0	0.00		EPA 1623
BB82778	Intake 2PIS	1/25/2017	Field	50.0	0	1	0.02		EPA 1623
BB83025	Intake 2PIS	1/30/2017	Field	50.0	0	0	0.00		EPA 1623
BB83109	Intake 2PIS	1/31/2017	Field	50.0	0	0	0.00		EPA 1623
BB83012	Intake 2PIS	1/30/2017	Field	50.0	0	0	0.00		EPA 1623
BB83013	Intake 2PIS	1/30/2017	MS	50.0	99	33	0.66	33.3	EPA 1623

ASI Data Quality Statement:

Unless otherwise noted, all data were generated in accordance with EPA Method 1623 and 100% of the filtered volume was examined for each sample.

Reviewed by PS Jordan

Date Reviewed: February 8, 2017