



Nick Fish, Commissioner
Michael Stuhr, P.E., Administrator

1120 SW 5th Avenue, Room 600
Portland, Oregon 97204-1926
Information: 503-823-7404
www.portlandoregon.gov/water



DATE: December 8, 2017

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for November 2017
Bull Run Treatment Variance and Order Revoking the Variance
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 November. 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) and the Order Revoking the Variance from OHA dated May 19, 2017, amended on August 1, 2017, and then amended a second time on November 21, 2017. As of May 21, 2017 PWB is sampling at least 200 liters of water per week, over at least four days per week, as directed in the Order Revoking the Variance.

The PWB Laboratory and Analytical Services, Inc. completed the analysis for *Cryptosporidium* (see attached reports). Results for the reporting month and previous eleven months are summarized below:

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

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:	11/01/2017-11/30/2017	17	850.0	7	2	59.6
Previous 11 Months:	12/01/2016-10/31/2017	352	10,211.9	29	41	39.4

If you have any questions regarding these results, please contact me at 503-823-7648.

Sincerely,

Ann Levy
Environmental Program Manager

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



Microbiological Testing, Research & Consulting
 130 Allen Brook Ln., Williston VT 05495

Cryptosporidium Laboratory Analysis Report

Water System Information		Sample Information	
PWS ID:	OR4100657	Collection Month & Year:	November 2017
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227	Report Date:	December 7, 2017
County:	Multnomah	Monitoring Regime:	Interim
		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
BB96537	Intake 2PIS	11/1/2017	Field	50.0		0	0.00		EPA 1623
BB97153	Intake 2PIS	11/12/2017	Field	50.0		0	0.00		EPA 1623
BB97154	Intake 2PIS	11/13/2017	Field	50.0		0	0.00		EPA 1623
BB97155	Intake 2PIS	11/13/2017	MS	50.0	99	48	0.96	48.5	EPA 1623
BB97156	Intake 2PIS	11/14/2017	Field	50.0		0	0.00		EPA 1623
BB97157	Intake 2PIS	11/15/2017	Field	50.0		0	0.00		EPA 1623

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: December 7, 2017



Portland Water Bureau Laboratory
2010 N Interstate Ave, Portland, OR 97227

Cryptosporidium Laboratory Analysis Report

<u>Water System Information</u>		<u>Sample Information</u>	
PWS ID:	OR4100657	Collection Month & Year:	Nov. 2017
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227	Report Date:	December 6, 2017
County:	Multnomah	Monitoring Regime:	Interim
		Source Water:	Bull Run Intake - WTP-A

Portland Water Bureau Laboratory

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
BB96887	Intake 2PIS	11/5/2017	Field	50.0	0	2	0.04		1623
BB96888	Intake 2PIS	11/6/2017	Field	50.0	0	1	0.02		1623
BB96889	Intake 2PIS	11/6/2017	MS	50.0	99	71	1.42	70.7	1623
BB96890	Intake 2PIS	11/7/2017	Field	50.0	0	1	0.02		1623
BB96891	Intake 2PIS	11/8/2017	Field	50.0	0	1	0.02		1623
BB97471	Intake 2PIS	11/19/2017	Field	50.0	0	0	0.00		1623
BB97472	Intake 2PIS	11/20/2017	Field	50.0	0	0	0.00		1623
BB97473	Intake 2PIS	11/21/2017	Field	50.0	0	0	0.00		1623
BB97474	Intake 2PIS	11/22/2017	Field	50.0	0	1	0.02		1623
BB97611	Intake 2PIS	11/26/2017	Field	50.0	0	0	0.00		1623
BB97612	Intake 2PIS	11/27/2017	Field	50.0	0	0	0.00		1623
BB97613	Intake 2PIS	11/28/2017	Field	50.0	0	1	0.02		1623
BB97614	Intake 2PIS	11/29/2017	Field	50.0	0	0	0.00		1623

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 Mark Lang

Date Reviewed: 12/06/17