



Nick Fish, Commissioner  
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DATE: November 7, 2014

WQ 0.10.14.4

TO: Oregon Health Authority  
Drinking Water Services

**SUBJECT: Monthly Report for October 2014  
Bull Run Treatment 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 October. 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). PWB is currently in Observation Monitoring. Compliance turbidity readings at the intake for the reporting month were not greater than 2.0 NTU.

Analytical Services, Inc. completed the analysis for *Cryptosporidium* (see attached report). A summary of the results for the reporting month and the previous eleven months is shown in the table below:

***Cryptosporidium* Data Summary for the Reporting Month and the 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:	10/01/2014-10/31/2014	40	445.4	0	4	29.4
Previous 11 Months:	11/01/2013-09/30/2014	170	5158.0	0	23	32.7

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

Sincerely,

Ann Richter  
Environmental Program Manager

**Transmitted:** Two pages (including this transmittal memo) emailed to [dwp.dmce@state.or.us](mailto: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	
<b>PWS ID:</b>	OR4100657	<b>Collection Month &amp; Year:</b>	October 2014
<b>PWS Name:</b>	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227	<b>Report Date:</b>	November 3, 2014
<b>County:</b>	Multnomah	<b>Monitoring Regime:</b>	Observation
		<b>Source Water:</b>	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. of Oocysts per Liter	Matrix Spike Recovery (%)	Analysis Method
BB45123	2PIS	10/5/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB45124	2PIS	10/5/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45125	2PIS	10/5/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45126	2PIS	10/5/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45127	2PIS	10/5/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45184	2PIS	10/7/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB45183	2PIS	10/7/2014	Matrix Spike	11.3	100	83	7.37	83.0	1623-Precoat Mod.
BB45185	2PIS	10/7/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45186	2PIS	10/7/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45187	2PIS	10/7/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45188	2PIS	10/7/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45372	2P	10/12/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45373	2P	10/12/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45374	2P	10/12/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45375	2P	10/12/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45376	2P	10/12/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45483	2P	10/14/2014	Field	10.9	0	0	0.00		1623-Precoat Mod.
BB45484	2P	10/14/2014	Matrix Spike	11.0	99	0	0.00	0.0	1623-Precoat Mod.
BB45485	2P	10/14/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45486	2P	10/14/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB45487	2P	10/14/2014	Field	10.9	0	0	0.00		1623-Precoat Mod.
BB45488	2P	10/14/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45686	2P	10/19/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB45687	2P	10/19/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45688	2P	10/19/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45689	2P	10/19/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45690	2P	10/19/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB45782	2P	10/21/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB45781	2P	10/21/2014	Matrix Spike	11.2	99	7	0.62	7.1	1623-Precoat Mod.
BB45783	2P	10/21/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45784	2P	10/21/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45785	2P	10/21/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45786	2P	10/21/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45976	2P	10/26/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB45977	2P	10/26/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45978	2P	10/26/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45979	2P	10/26/2014	Field	11.3	0	0	0.00		1623-Precoat Mod.
BB45980	2P	10/26/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.
BB46054	2P	10/28/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB46055	2P	10/28/2014	Matrix Spike	11.1	99	27	2.44	27.3	1623-Precoat Mod.
BB46056	2P	10/28/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB46057	2P	10/28/2014	Field	11.2	0	0	0.00		1623-Precoat Mod.
BB46058	2P	10/28/2014	Field	11.0	0	0	0.00		1623-Precoat Mod.
BB46059	2P	10/28/2014	Field	11.1	0	0	0.00		1623-Precoat Mod.

Notes: NA

**ASI Data Quality Statement:**

All data reported above, unless otherwise noted, were generated in accordance with EPA Method 1623.

Reviewed by PSwanden

Date Reviewed: November 3, 2014