



DATE: August 15, 2022

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

SUBJECT: **Monthly Report for July 2022**
Bilateral Compliance Agreement
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 July. Monitoring for *Cryptosporidium* at the Bull Run intake is done to comply with the interim measures of the Bilateral Compliance Agreement (Oregon Health Authority, December 18, 2017).

Analyses for *Cryptosporidium* and *Giardia* were performed by the PWB Laboratory (see attached report). Also attached are copies of the monthly turbidity and raw coliform reports previously submitted to OHA in compliance with the SWTR. Results for the reporting month are summarized below:

***Cryptosporidium*, *Giardia*, Turbidity and Fecal Coliforms Data Summary for the Reporting Month**

<i>Cryptosporidium</i> and <i>Giardia</i> Field Samples				<i>Cryptosporidium</i> Recoveries		Fecal Coliforms	Turbidity
No. of Samples	Total Volume (L)	Total No. <i>Cryptosporidium</i> Oocysts	Total No. <i>Giardia</i> Cysts	No. of Matrix Spikes	Average Matrix Spike Recovery (%)	Highest Count (CFU/100 mL)	Highest Reading (NTU)
17	850	1	1	1	72.7	2	0.91

If you have any questions regarding these results, please contact me at 503-545-8190.

Sincerely,



Ann Levy
Environmental Manager

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

Please contact us for translation or interpretation, or for accommodations for people with disabilities.
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Portland Water Bureau Laboratory
2010 N Interstate Ave, Portland, OR 97227

***Cryptosporidium and Giardia* Laboratory Analysis Report**

<u>Water System Information</u>				<u>Sample Information</u>			
PWS ID:	OR4100657			Collection Month & Year:	July 2022		
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			Report Date:	August 8, 2022		
County:	Multnomah			Monitoring Regime:	Bilateral Compliance Agreement		
				Source Water:	Bull Run Intake - WTP-A		

PWB Sample ID	Loc ID	Sample Collection Date	Sample Type	Sample Volume Filtered (L)	Analysis Method	<i>Cryptosporidium</i>			<i>Giardia</i>		
						No. of Oocysts Spiked	No. of Oocysts Counted	Oocyst Matrix Spike Recovery (%)	No. of Cysts Spiked	No. of Cysts Counted	Cyst Matrix Spike Recovery (%)
BC84132	Intake 2PIS	7/3/2022	Field	50	1623.1	0	0		0	0	
BC84133	Intake 2PIS	7/4/2022	Field	50	1623.1	0	0		0	0	
BC84135	Intake 2PIS	7/5/2022	Field	50	1623.1	0	0		0	1	
BC84134	Intake 2PIS	7/5/2022	MS	50.75	1623.1	99	72	72.7	100	68	67.0
BC84136	Intake 2PIS	7/6/2022	Field	50	1623.1	0	0		0	0	
BC84414	Intake 2PIS	7/10/2022	Field	50	1623.1	0	1		0	0	
BC84416	Intake 2PIS	7/12/2022	Field	50	1623.1	0	0		0	0	
BC84417	Intake 2PIS	7/13/2022	Field	50	1623.1	0	0		0	0	
BC84632	Intake 2PIS	7/14/2022	Field	50	1623.1	0	0		0	0	
BC84696	Intake 2PIS	7/17/2022	Field	50	1623.1	0	0		0	0	
BC84697	Intake 2PIS	7/18/2022	Field	50	1623.1	0	0		0	0	
BC84698	Intake 2PIS	7/19/2022	Field	50	1623.1	0	0		0	0	
BC84699	Intake 2PIS	7/20/2022	Field	50	1623.1	0	0		0	0	
BC84928	Intake 2PIS	7/24/2022	Field	50	1623.1	0	0		0	0	
BC84929	Intake 2PIS	7/25/2022	Field	50	1623.1	0	0		0	0	
BC84930	Intake 2PIS	7/26/2022	Field	50	1623.1	0	0		0	0	
BC84931	Intake 2PIS	7/27/2022	Field	50	1623.1	0	0		0	0	
BC85362	Intake 2PIS	7/31/2022	Field	50	1623.1	0	0		0	0	

Unless otherwise noted, all data were generated in accordance with EPA Method 1623/1623.1 and 100% of the filtered volume was examined for each sample.

Reviewed by Marsha Farooqui

Date Reviewed: 08/08/2022

OHA - Drinking Water Services - Turbidity Monitoring Report Form

County: Multnomah

Slow Sand, Membrane, Diatomaceous Earth Filtration, or Unfiltered Systems

Portland Water Bureau

ID #: OR 4100657


WTP-A

Month/Year: 07/2022

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.39	0.34	0.34	0.33	0.70	0.39	0.70
2	0.38	0.37	0.37	0.39	0.40	0.40	0.40
3	0.37	0.38	0.39	0.38	0.38	0.37	0.39
4	0.38	0.41	0.42	0.37	0.40	0.43	0.43
5	0.41	0.51	0.45	0.55	0.51	0.55	0.55
6	0.41	0.43	0.44	0.43	0.47	0.41	0.47
7	0.42	0.43	0.43	0.40	0.42	0.43	0.43
8	0.43	0.43	0.43	0.45	0.47	0.41	0.47
9	0.34	0.33	0.32	0.33	0.31	0.45	0.45
10	0.32	0.32	0.32	0.33	0.33	0.33	0.33
11	0.34	0.38	0.32	0.30	0.34	0.38	0.38
12	0.35	0.39	0.35	0.34	0.38	0.34	0.39
13	0.34	0.38	0.40	0.44	0.35	0.33	0.44
14	0.34	0.34	0.35	0.33	0.32	0.35	0.35
15	0.37	0.34	0.35	0.38	0.34	0.39	0.39
16	0.34	0.37	0.35	0.33	0.33	0.35	0.37
17	0.35	0.33	0.33	0.32	0.32	0.34	0.35
18	0.36	0.33	0.32	0.31	0.33	0.39	0.39
19	0.38	0.34	0.32	0.30	0.33	0.38	0.38
20	0.33	0.34	0.33	0.35	0.35	0.34	0.35
21	0.34	0.45	0.35	0.35	0.33	0.34	0.45
22	0.34	0.35	0.38	0.34	0.33	0.32	0.38
23	0.61	0.36	0.50	0.32	0.33	0.35	0.61
24	0.35	0.36	0.38	0.33	0.34	0.34	0.38
25	0.34	0.35	0.30	0.36	0.34	0.33	0.36
26	0.33	0.34	0.33	0.35	0.35	0.40	0.40
27	0.42	0.43	0.35	0.35	0.77	0.37	0.77
28	0.36	0.39	0.34	0.38	0.34	0.39	0.39
29	0.38	0.35	0.38	0.91	0.33	0.34	0.91
30	0.35	0.34	0.37	0.41	0.35	0.36	0.41
31	0.40	0.57	0.37	0.38	0.90	0.38	0.90

Slow Sand/Membrane/DE Filtration/Unfiltered			Monthly summary	
95% of daily turbidity readings ≤ 1 NTU? ¹	N/A	CT's met everyday?	Chlorine residual at entry point always ≥ 0.2 mg/L?	Chlorine residual measured in 95% of distribution samples?
All daily turbidity readings ≤ 5 NTU?	Yes	Yes	Yes	Yes

¹Filtered systems only

Signature: 
 Anna Vosa, P.E.

Date: 8/5/22

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 07/2022

Date	Fecal Coliform (CFU/100mL)	Comments
7/1/2022	1	
7/2/2022	<1	
7/3/2022	<1	
7/4/2022	<1	
7/5/2022	<1	
7/6/2022	1	
7/7/2022	<1	
7/8/2022	1	
7/9/2022	<1	
7/10/2022	<1	
7/11/2022	2	
7/12/2022	1	
7/13/2022	1	
7/14/2022	<1	
7/15/2022	<1	
7/16/2022	1	
7/17/2022	1	
7/18/2022	<1	
7/19/2022	<1	
7/20/2022	1	
7/21/2022	1	
7/22/2022	<1	
7/23/2022	1	
7/24/2022	<1	
7/25/2022	<1	
7/26/2022	<1	
7/27/2022	<1	
7/28/2022	<1	
7/29/2022	<1	
7/30/2022	1	
7/31/2022	<1	

Note: Fecal Coliform sampled at active Headworks Raw Water Intake (either 2P or 2PIS)

Six Month Summary:

# of Samples For Fecal Coliform:	178
# of Samples > 20 CFU/100mL:	0
Percent:	0.0%