



Mingus Mapps, Commissioner
 Gabriel Solmer, Director

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 www.portlandoregon.gov/water



DATE: April 15, 2022

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for March 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 March. 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)
18	900	4	0	1	78.8	1	0.75

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

Sincerely,

Ann Levy
 Environmental Manager

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



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:	March 2022	
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227		Report Date:	April 6, 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 (%)
BC70431	Intake 2PIS	3/1/2022	Field	50	1623.1	0	0		0	0	
BC70432	Intake 2PIS	3/1/2022	MS	50.5	1623.1	99	78	78.8	99	79	79.8
BC70433	Intake 2PIS	3/2/2022	Field	50	1623.1	0	0		0	0	
BC71333	Intake 2PIS	3/6/2022	Field	50	1623.1	0	1		0	0	
BC71334	Intake 2PIS	3/7/2022	Field	50	1623.1	0	0		0	0	
BC71335	Intake 2PIS	3/8/2022	Field	50	1623.1	0	1		0	0	
BC71336	Intake 2PIS	3/9/2022	Field	50	1623.1	0	1		0	0	
BC72096	Intake 2PIS	3/13/2022	Field	50	1623.1	0	0		0	0	
BC72097	Intake 2PIS	3/14/2022	Field	50	1623.1	0	0		0	0	
BC72098	Intake 2PIS	3/15/2022	Field	50	1623.1	0	0		0	0	
BC72099	Intake 2PIS	3/16/2022	Field	50	1623.1	0	1		0	0	
BC73129	Intake 2PIS	3/20/2022	Field	50	1623.1	0	0		0	0	
BC73130	Intake 2PIS	3/21/2022	Field	50	1623.1	0	0		0	0	
BC73131	Intake 2PIS	3/22/2022	Field	50	1623.1	0	0		0	0	
BC73132	Intake 2PIS	3/23/2022	Field	50	1623.1	0	0		0	0	
BC74123	Intake 2PIS	3/27/2022	Field	50	1623.1	0	0		0	0	
BC74124	Intake 2PIS	3/28/2022	Field	50	1623.1	0	0		0	0	
BC74125	Intake 2PIS	3/29/2022	Field	50	1623.1	0	0		0	0	
BC74126	Intake 2PIS	3/30/2022	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: 04/06/2022

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 03/2022

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

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

Six Month Summary:

# of Samples For Fecal Coliform:	177
# of Samples > 20 CFU/100mL:	0
Percent:	0.0%

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: 03/2022

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.45	0.38	0.33	0.33	0.30	0.35	0.45
2	0.35	0.37	0.39	0.44	0.57	0.46	0.57
3	0.40	0.39	0.39	0.39	0.48	0.38	0.48
4	0.37	0.39	0.38	0.38	0.38	0.45	0.45
5	0.46	0.51	0.53	0.45	0.45	0.56	0.56
6	0.61	0.61	0.65	0.60	0.59	0.59	0.65
7	0.65	0.66	0.65	0.63	0.60	0.60	0.66
8	0.62	0.59	0.57	0.59	0.58	0.57	0.62
9	0.59	0.58	0.61	0.62	0.66	0.66	0.66
10	0.62	0.60	0.61	0.70	0.75	0.56	0.75
11	0.58	0.59	0.55	0.59	0.56	0.55	0.59
12	0.55	0.54	0.53	0.53	0.51	0.50	0.55
13	0.50	0.51	0.48	0.50	0.50	0.49	0.51
14	0.48	0.47	0.48	0.48	0.49	0.51	0.51
15	0.49	0.49	0.45	0.45	0.43	0.40	0.49
16	0.40	0.41	0.40	0.43	0.45	0.46	0.46
17	0.53	0.44	0.44	0.43	0.48	0.42	0.53
18	0.43	0.40	0.39	0.45	0.38	0.40	0.45
19	0.42	0.40	0.40	0.37	0.37	0.37	0.42
20	0.39	0.39	0.38	0.37	0.38	0.44	0.44
21	0.52	0.40	0.35	0.38	0.39	0.39	0.52
22	0.41	0.39	0.36	0.35	0.38	0.38	0.41
23	0.38	0.39	0.36	0.34	0.37	0.43	0.43
24	0.35	0.38	0.38	0.39	0.41	0.37	0.41
25	0.37	0.38	0.35	0.36	0.34	0.37	0.38
26	0.34	0.34	0.35	0.34	0.38	0.36	0.38
27	0.33	0.36	0.34	0.35	0.34	0.33	0.36
28	0.33	0.34	0.33	0.33	0.33	0.30	0.34
29	0.32	0.31	0.32	0.31	0.30	0.30	0.32
30	0.30	0.31	0.30	0.29	0.34	0.44	0.44
31	0.44	0.38	0.33	0.38	0.33	0.35	0.44

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: 4/6/22