



**DATE:** April 14, 2023

WQ 0.10.14.4

**TO:** Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for March 2023  
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)
17	850	4	0	1	86.9	2	1.08

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@odhsoha.oregon.gov](mailto:dwp.dmce@odhsoha.oregon.gov) 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>			
<b>PWS ID:</b>	OR4100657			<b>Collection Month &amp; Year:</b>	March 2023		
<b>PWS Name:</b>	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			<b>Report Date:</b>	April 4, 2023		
<b>County:</b>	Multnomah			<b>Monitoring Regime:</b>	Bilateral Compliance Agreement		
				<b>Source Water:</b>	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 (%)
BC94841	Intake 2PIS	3/1/2023	Field	50	1623.1	0	0		0	0	
BC95025	Intake 2PIS	3/5/2023	Field	50	1623.1	0	0		0	0	
BC95026	Intake 2PIS	3/6/2023	Field	50	1623.1	0	2		0	0	
BC95027	Intake 2PIS	3/7/2023	Field	50	1623.1	0	0		0	0	
BC95029	Intake 2PIS	3/7/2023	MS	50.5	1623.1	99	86	86.9	100	78	78
BC95028	Intake 2PIS	3/8/2023	Field	50	1623.1	0	0		0	0	
BC95238	Intake 2PIS	3/12/2023	Field	50	1623.1	0	0		0	0	
BC95239	Intake 2PIS	3/13/2023	Field	50	1623.1	0	0		0	0	
BC95240	Intake 2PIS	3/14/2023	Field	50	1623.1	0	0		0	0	
BC95241	Intake 2PIS	3/15/2023	Field	50	1623.1	0	0		0	0	
BC95517	Intake 2PIS	3/19/2023	Field	50	1623.1	0	0		0	0	
BC95518	Intake 2PIS	3/20/2023	Field	50	1623.1	0	2		0	0	
BC95519	Intake 2PIS	3/21/2023	Field	50	1623.1	0	0		0	0	
BC95520	Intake 2PIS	3/22/2023	Field	50	1623.1	0	0		0	0	
BC95726	Intake 2PIS	3/26/2023	Field	50	1623.1	0	0		0	0	
BC95727	Intake 2PIS	3/27/2023	Field	50	1623.1	0	0		0	0	
BC95728	Intake 2PIS	3/28/2023	Field	50	1623.1	0	0		0	0	
BC95729	Intake 2PIS	3/29/2023	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: 04/05/2023

# 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: 03/2023**

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.28	0.28	0.27	0.28	0.28	0.29	<b>0.29</b>
2	0.28	0.28	0.27	0.27	0.29	0.28	<b>0.29</b>
3	0.27	0.28	0.27	0.27	0.28	0.29	<b>0.29</b>
4	0.29	0.28	0.28	0.28	0.28	0.28	<b>0.29</b>
5	0.28	0.27	0.28	0.28	0.27	0.28	<b>0.28</b>
6	0.27	0.27	0.27	0.25	0.28	0.27	<b>0.28</b>
7	0.27	0.27	0.27	0.27	0.27	0.28	<b>0.28</b>
8	0.27	0.27	0.28	0.28	0.43	0.28	<b>0.43</b>
9	0.27	0.27	0.29	0.28	0.28	0.28	<b>0.29</b>
10	0.29	0.29	0.28	0.28	0.28	0.29	<b>0.29</b>
11	0.28	0.28	0.29	0.28	0.29	0.29	<b>0.29</b>
12	0.29	0.30	0.28	0.28	0.29	0.29	<b>0.30</b>
13	0.28	0.28	0.29	0.30	0.29	0.29	<b>0.30</b>
14	0.28	0.29	0.28	0.28	0.29	0.29	<b>0.29</b>
15	0.29	0.29	0.29	0.28	0.29	0.28	<b>0.29</b>
16	0.29	0.28	0.28	0.29	0.29	0.29	<b>0.29</b>
17	0.29	0.29	0.28	0.28	0.28	0.30	<b>0.30</b>
18	0.28	0.28	0.28	0.29	0.28	0.29	<b>0.29</b>
19	0.30	0.30	0.28	0.29	0.28	0.29	<b>0.30</b>
20	0.28	0.28	0.28	0.28	0.28	0.29	<b>0.29</b>
21	0.28	0.28	0.44	0.30	0.33	0.33	<b>0.44</b>
22	0.33	0.31	0.29	0.30	0.30	0.29	<b>0.33</b>
23	0.29	0.29	0.29	0.32	0.30	0.30	<b>0.32</b>
24	0.30	0.30	0.29	1.08	0.29	0.29	<b>1.08</b>
25	0.29	0.28	0.30	0.29	0.29	0.30	<b>0.30</b>
26	0.31	0.29	0.29	0.29	0.28	0.29	<b>0.31</b>
27	0.29	0.29	0.31	0.29	0.30	0.30	<b>0.31</b>
28	0.30	0.30	0.29	0.29	0.38	0.36	<b>0.38</b>
29	0.33	0.33	0.32	0.30	0.30	0.30	<b>0.33</b>
30	0.30	0.30	0.30	0.30	0.29	0.29	<b>0.30</b>
31	0.29	0.29	0.28	0.27	0.27	0.27	<b>0.29</b>

Slow Sand/Membrane/DE Filtration/Unfiltered			Monthly summary	
95% of daily turbidity readings ≤ 1 NTU? <sup>1</sup>	<b>N/A</b>	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?	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

<sup>1</sup>Filtered systems only

Signature:   
 Anna Vosa, P.E.

Date: 4/6/2023

## OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 03/2023

Date	Fecal Coliform (CFU/100mL)	Comments
3/1/2023	<1	
3/2/2023	2	
3/3/2023	1	
3/4/2023	<1	
3/5/2023	<1	
3/6/2023	1	
3/7/2023	<1	
3/8/2023	<1	
3/9/2023	<1	
3/10/2023	<1	
3/11/2023	<1	
3/12/2023	<1	
3/13/2023	1	
3/14/2023	<1	
3/15/2023	<1	
3/16/2023	<1	
3/17/2023	<1	
3/18/2023	1	
3/19/2023	<1	
3/20/2023	<1	
3/21/2023	<1	
3/22/2023	<1	
3/23/2023	1	
3/24/2023	<1	
3/25/2023	<1	
3/26/2023	<1	
3/27/2023	<1	
3/28/2023	<1	
3/29/2023	1	
3/30/2023	<1	
3/31/2023	1	

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

**Six Month Summary:**

# of Samples For Fecal Coliform:	165
# of Samples > 20 CFU/100mL:	1
Percent:	0.6%