



Mingus Mapps, Commissioner  
Gabriel Solmer, Director

1120 SW Fifth Avenue, Room 405  
Portland, Oregon 97204-1926  
Information: 503-823-7404  
Portland.gov/water



**DATE:** August 15, 2023

WQ 0.10.14.4

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

**SUBJECT: Monthly Report for July 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 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 and ASI Laboratories (see attached reports). 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)
9	450	0	1	2	73.8	2	0.61

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

Sincerely,

Ann Levy  
Environmental Manager

**Transmitted:** Five pages (including this transmittal memo) emailed to [dpw.dmce@odhsoha.oregon.gov](mailto:dpw.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>	July 2023		
<b>PWS Name:</b>	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			<b>Report Date:</b>	August 7, 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 (%)
BC99709	Intake 2PIS	7/2/2023	Field	50	1623.1	0	0		0	0	
BC99710	Intake 2PIS	7/3/2023	Field	50	1623.1	0	0		0	0	
BC99711	Intake 2PIS	7/3/2023	MS	50.75	1623.1	99	80	80.8	100	76	76
BD00009	Intake 2PIS	7/16/2023	Field	50	1623.1	0	0		0	0	
BD00010	Intake 2PIS	7/18/2023	Field	50	1623.1	0	0		0	0	
BD00457	Intake 2PIS	7/23/2023	Field	50	1623.1	0	0		0	0	
BD00458	Intake 2PIS	7/25/2023	Field	50	1623.1	0	0		0	0	
BD00671	Intake 2PIS	7/30/2023	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 Faroogui

Date Reviewed: 08/09/2023



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

**Cryptosporidium and Giardia Laboratory Analysis Report**

Water System Information				Sample Information			
PWS ID:	OR4100657	Collection Month & Year:	July 2023				
PWS Name:	Portland Water Bureau	Report Date:	July 24, 2023				
	1900 N Interstate Avenue	Monitoring Regime:	Bilateral Compliance Agreement				
	Portland, Oregon 97227	Source Water:	Bull Run Intake - WTP-A				
County:	Multnomah						

PWB Sample ID	Loc ID	Sample Collection Date	Sample Type	Sample Volume Filtered (L)	Analysis Method	Cryptosporidium			Giardia		
						No. of Oocysts Spiked	No. of Oocysts Counted	Oocyst Matrix Spike Recovery (%)	No. of Cysts Spiked	No. of Cysts Counted	Cyst Matrix Spike Recovery (%)
BC99787	BRRE2PIS	7/9/2023	Field	50.0	EPA 1623.1		0			0	
BC99788	BRRE2PIS	7/10/2023	Field	50.0	EPA 1623.1		0			1	
BC99789	BRRE2PIS	7/10/2023	MS	50.8	EPA 1623.1	99	66	66.7	100	72	71.0

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

Reviewed by K. Anderson

Date Reviewed: 27 July 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: 07/2023**

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.25	0.25	0.25	0.25	0.25	0.26	<b>0.26</b>
2	0.28	0.28	0.28	0.27	0.28	0.27	<b>0.28</b>
3	0.28	0.28	0.28	0.27	0.28	0.27	<b>0.28</b>
4	0.29	0.31	0.28	0.27	0.27	0.28	<b>0.31</b>
5	0.29	0.29	0.29	0.29	0.29	0.28	<b>0.29</b>
6	0.28	0.29	0.28	0.29	0.29	0.28	<b>0.29</b>
7	0.29	0.30	0.29	0.28	0.28	0.29	<b>0.30</b>
8	0.29	0.30	0.30	0.29	0.29	0.29	<b>0.30</b>
9	0.29	0.29	0.30	0.29	0.29	0.30	<b>0.30</b>
10	0.30	0.30	0.31	0.47	0.50	0.54	<b>0.54</b>
11	0.56	0.60	0.61	0.31	0.30	0.30	<b>0.61</b>
12	0.30	0.33	0.30	0.32	0.30	0.32	<b>0.33</b>
13	0.33	0.32	0.32	0.33	0.33	0.33	<b>0.33</b>
14	0.33	0.32	0.33	0.33	0.32	0.33	<b>0.33</b>
15	0.33	0.33	0.33	0.33	0.34	0.33	<b>0.34</b>
16	0.34	0.35	0.33	0.34	0.38	0.44	<b>0.44</b>
17	0.51	0.39	0.38	0.35	0.36	0.35	<b>0.51</b>
18	0.38	0.37	0.38	0.35	0.35	0.35	<b>0.38</b>
19	0.38	0.37	0.37	0.36	0.36	0.37	<b>0.38</b>
20	0.39	0.39	0.37	0.36	0.36	0.37	<b>0.39</b>
21	0.37	0.37	0.38	0.35	0.37	0.38	<b>0.38</b>
22	0.38	0.38	0.39	0.38	0.37	0.36	<b>0.39</b>
23	0.38	0.38	0.38	0.35	0.34	0.37	<b>0.38</b>
24	0.37	0.38	0.36	0.36	0.32	0.30	<b>0.38</b>
25	0.32	0.33	0.30	0.31	0.30	0.30	<b>0.33</b>
26	0.30	0.32	0.30	0.29	0.29	0.29	<b>0.32</b>
27	0.29	0.31	0.31	0.30	0.29	0.30	<b>0.31</b>
28	0.30	0.30	0.29	0.29	0.29	0.28	<b>0.30</b>
29	0.29	0.29	0.29	0.29	0.29	0.29	<b>0.29</b>
30	0.30	0.31	0.29	0.28	0.29	0.29	<b>0.31</b>
31	0.30	0.31	0.29	0.29	0.30	0.29	<b>0.31</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*  
 Anna Vosa, P.E.

Date: 8/8/23

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

Portland Water Bureau

ID#: OR 4100657

Month/Year: 07/2023

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

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

**Six Month Summary:**

# of Samples For Fecal Coliform:	180
# of Samples > 20 CFU/100mL:	0
Percent:	0.0%