

**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: CLACKAMAS RIVER WATER - CLACKAMAS ID #: 4100187 WTP: A Month/Year: Oct-2023

DAY	2 AM [NTU]	6 AM [NTU]	10 AM [NTU]	2 PM [NTU]	6 PM [NTU]	10 PM [NTU]	Highest Reading of the Day ¹ [NTU]
1	off	0.02	0.02	off	off	off	0.02
2	off	off	0.02	0.03	0.03	0.03	0.03
3	off	off	0.03	0.04	0.03	0.04	0.04
4	off	off	0.03	0.03	0.02	0.04	0.04
5	off	off	0.04	0.03	0.04	0.04	0.04
6	off	off	0.02	0.03	0.03	0.02	0.03
7	off	off	0.03	0.02	off	off	0.03
8	off	0.02	0.02	off	off	off	0.02
9	off	off	0.03	0.04	0.02	0.04	0.04
10	off	off	0.02	0.02	0.02	0.02	0.02
11	off	off	0.04	0.03	0.03	0.03	0.04
12	off	off	0.04	0.03	0.03	0.04	0.04
13	off	off	0.03	0.03	0.02	0.02	0.03
14	off	off	0.02	0.02	off	off	0.02
15	off	0.03	0.02	off	off	off	0.03
16	off	off	0.02	0.03	off	off	0.03
17	off	off	0.02	0.04	0.03	0.04	0.04
18	off	off	0.03	0.02	0.02	0.03	0.03
19	off	off	0.02	0.02	0.03	0.03	0.03
20	off	off	0.03	0.03	0.03	0.03	0.03
21	off	off	0.03	0.03	off	off	0.03
22	off	0.03	0.03	off	off	off	0.03
23	off	off	0.04	0.03	0.03	0.03	0.04
24	off	off	0.03	0.02	0.02	off	0.03
25	off	off	0.02	0.02	0.02	0.05	0.05
26	off	off	0.02	0.02	off	off	0.02
27	off	off	0.03	0.02	0.02	0.02	0.03
28	off	off	0.02	0.02	off	off	0.02
29	off	0.02	0.02	off	off	off	0.02
30	off	off	0.02	0.05	0.02	0.02	0.05
31	off	off	0.02	0.02	0.02	0.02	0.02

Conventional or Direct Filtration		Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes <input type="radio"/> No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes <input type="radio"/> No	
All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:		
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes <input type="radio"/> No	PRINTED NAME: <u>Travis Andrews</u>		
	SIGNATURE: <u>Travis Andrews</u>		DATE: <u>11-6-23</u>
	PHONE #: (<u>503</u>) <u>956-2645</u>		CERT #: <u>T-450182</u>

¹ Including continuous turbidity data, if applicable, for optimization recording purposes. Compliance values in columns "12 AM" through "8 PM" may not correspond to continuous readings' maximum. ² IFE = Individ. Filter Effl. (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Program - Surface Water Quality Data Form

System Name: Clackamas River Water-Clackamas ID#: 4100187 WTP: A Disinfection Giardia Log Inactiv: 1

Oct-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? ³ Yes / No		
	Minimum free chlorine residual after pre-chlorination (C) ₃ [ppm or mg/L]	Peak hourly demand flow (Pre) [GPM]	Contact time (Pre) (T) [minutes]	Actual CT (Pre) C X T	pH (Pre)	temp (Pre) [° C]	Required CT (Total) formula	Actual CT / Required CT (Pre)	Percent log inactivation achieved (Pre)	Minimum free chlorine residual after post-chlorination (C) ₃ [ppm or mg/L]	Peak hourly demand flow (Post) [GPM]	Contact Time (Post) (T) [minutes]	Actual CT (Post) C X T	pH (Post)	temp (Post) [° C]	Required CT (Total) formula	Actual CT / Required CT (Post)	Percent log inactivation achieved (Post)			Actual CT / Required CT Sum of Pre and Post	Total percent of require log inactivation achieved
1/ 10:00	0.83	9569	35.4	29.4	7.29	14.0	31.8	0.9	92.5	0.96	9423	76.0	73.0	7.60	13.6	37.1	2.0	196.8	2.89	289.2	Yes	
2/ 09:00	0.71	7180	47.0	33.4	7.32	14.6	30.4	1.1	109.9	0.92	7951	92.3	84.9	7.65	13.9	36.9	2.3	230.1	3.40	339.9	Yes	
3/ 17:00	0.48	7249	47.8	22.9	7.36	15.3	28.8	0.8	79.5	0.94	7986	91.6	86.1	7.62	14.2	35.8	2.4	240.5	3.20	320.0	Yes	
4/ 19:00	0.68	11430	32.4	22.0	7.52	15.6	30.6	0.7	71.9	0.91	12986	56.3	51.3	7.63	14.8	34.6	1.5	148.3	2.20	220.2	Yes	
5/ 16:00	0.68	12034	31.9	21.7	7.44	15.8	29.3	0.7	74.1	0.95	12986	56.3	53.5	7.67	14.5	35.9	1.5	149.0	2.23	223.1	Yes	
6/ 21:00	0.71	7215	46.5	33.0	7.57	16.8	28.9	1.1	114.2	0.93	7958	91.8	85.4	7.65	15.8	32.5	2.6	262.8	3.76	377.0	Yes	
7/ 17:00	0.78	8402	41.4	32.3	7.48	16.4	28.9	1.1	111.8	0.93	8986	80.4	74.8	7.65	15.3	33.8	2.2	221.3	3.33	333.1	Yes	
8/ 10:00	0.73	11312	29.5	21.5	7.27	15.2	28.9	0.7	74.4	0.93	12986	57.0	53.0	7.63	14.8	34.8	1.5	152.3	2.27	226.7	Yes	
9/ 18:00	0.61	8833	35.7	21.8	7.39	15.3	29.5	0.7	73.9	0.92	9743	74.4	68.5	7.64	14.4	35.6	1.9	192.4	2.66	266.3	Yes	
10/ 13:00	0.43	9499	33.4	14.4	7.31	14.9	28.7	0.5	50.2	0.93	10208	71.7	66.7	7.60	14.2	35.5	1.9	187.9	2.38	238.1	Yes	
11/ 19:00	0.55	9569	38.7	21.3	7.47	15.5	29.8	0.7	71.5	0.93	10208	71.7	66.7	7.60	14.2	35.5	1.9	187.9	2.38	259.4	Yes	
12/ 12:00	0.54	9687	36.4	19.7	7.25	14.7	28.9	0.7	68.2	0.94	10208	72.1	67.8	7.58	13.8	36.2	1.9	187.3	2.55	255.5	Yes	
13/ 21:00	0.74	7284	41.3	30.5	7.49	15.3	31.2	1.0	97.8	0.94	7029	104.8	98.5	7.64	14.3	35.8	2.8	275.1	3.73	372.9	Yes	
14/ 15:00	0.72	11749	29.8	21.4	7.33	14.5	30.7	0.7	69.7	0.96	14736	49.1	47.1	7.67	13.8	37.6	1.3	125.3	1.95	195.0	Yes	
15/ 08:00	0.68	7249	46.2	31.4	7.22	14.2	30.0	1.0	104.7	0.90	7763	93.7	84.3	7.57	13.8	36.0	2.3	234.2	3.39	338.8	Yes	
16/ 10:00	0.69	13409	27.5	18.9	7.16	14.0	29.8	0.6	63.4	0.97	15763	46.5	45.1	7.53	13.4	36.7	1.2	122.9	1.86	186.3	Yes	
17/ 19:00	0.56	8618	39.0	21.9	7.40	15.2	29.7	0.7	73.7	0.91	9986	72.7	66.2	7.64	14.1	36.3	1.8	182.4	2.56	256.1	Yes	
18/ 20:00	0.46	11430	35.2	16.2	7.43	14.9	30.1	0.5	53.8	0.91	12819	56.8	51.6	7.64	14.0	36.6	1.4	141.0	1.95	194.8	Yes	
19/ 09:00	0.08	9458	39.1	3.1	7.40	14.9	28.7	0.1	10.8	0.79	10208	72.1	57.0	7.62	14.0	35.7	1.6	159.7	1.71	170.5	Yes	
20/ 14:00	0.61	7215	48.8	29.7	7.26	13.8	31.0	1.0	95.8	0.94	7034	103.2	97.0	7.63	13.1	38.8	2.5	250.0	3.46	345.8	Yes	
21/ 16:00	0.88	11548	30.4	26.7	7.41	14.4	32.5	0.8	82.2	1.22	12986	56.3	68.7	7.67	13.6	39.2	1.8	175.3	2.57	257.4	Yes	
22/ 09:00	0.86	8222	38.5	33.1	7.24	14.1	31.1	1.1	106.4	1.23	7236	98.6	121.3	7.63	13.4	39.1	3.1	310.2	4.16	416.7	Yes	
23/ 19:00	0.62	5111	50.3	31.2	7.40	14.0	32.3	1.0	96.6	1.25	5208	140.2	175.3	7.65	13.2	40.1	4.4	437.2	5.33	533.8	Yes	
24/ 20:00	0.60	5083	27.8	16.7	7.36	13.0	34.0	0.5	49.1	1.25	14583	48.7	60.9	7.63	12.4	42.5	1.4	143.3	1.93	192.4	Yes	
25/ 16:00	0.63	7249	45.3	28.5	7.36	12.6	35.0	0.8	81.4	1.25	7986	91.8	114.7	7.65	11.8	44.4	2.6	258.3	3.40	339.8	Yes	
26/ 11:00	0.58	12694	13.8	8.0	7.24	12.2	34.7	0.2	23.1	1.27	19791	39.2	49.8	7.59	11.7	43.8	1.1	113.7	1.37	136.8	Yes	
27/ 17:00	0.82	9534	37.0	30.3	7.45	12.0	38.8	0.8	78.1	1.22	10208	71.4	87.1	7.63	11.0	46.1	1.9	188.9	2.67	267.0	Yes	
28/ 16:00	0.77	9423	37.5	28.9	7.42	10.7	41.7	0.7	69.3	1.21	10208	71.1	86.1	7.64	9.5	51.4	1.7	167.5	2.37	236.8	Yes	
29/ 10:00	0.85	8291	43.4	36.9	7.25	9.4	43.0	0.9	85.8	1.19	8159	89.0	105.9	7.60	8.9	52.3	2.0	202.5	2.88	288.3	Yes	
30/ 10:00	0.83	7319	44.3	36.8	7.27	9.4	43.1	0.9	85.4	1.26	7972	91.3	115.1	7.53	8.7	52.1	2.2	220.9	3.06	306.3	Yes	
31/ 15:00	0.64	8909	43.2	27.7	7.39	9.7	43.4	0.6	63.8	1.22	10611	69.2	84.4	7.63	8.50	54.5	1.5	154.9	2.18	218.7	Yes	

³ If Cl2 at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.