

**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: Jun-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 <sup>1</sup> [NTU]
1	off	off	0.02	0.02	0.02	0.02	0.02
2	off	off	0.02	0.02	0.02	0.02	0.02
3	off	off	0.02	0.02	off	off	0.02
4	off	0.03	0.02	off	off	off	0.03
5	off	off	0.02	0.02	0.02	0.02	0.02
6	off	off	0.02	0.02	0.02	0.02	0.02
7	off	off	off	0.02	0.02	0.02	0.02
8	off	off	0.01	0.02	0.02	0.02	0.02
9	off	off	0.02	0.02	0.02	0.02	0.02
10	off	off	0.02	0.02	off	off	0.02
11	off	0.02	0.02	off	off	off	0.02
12	off	off	0.02	0.02	off	off	0.02
13	off	off	0.02	0.02	0.02	0.02	0.02
14	off	off	0.02	0.02	0.02	0.02	0.02
15	off	off	0.02	0.02	0.02	0.02	0.02
16	off	off	0.02	0.02	0.02	0.02	0.02
17	off	off	0.02	0.02	off	off	0.02
18	off	0.02	0.02	off	off	off	0.02
19	off	off	0.02	0.02	0.02	0.02	0.02
20	off	off	0.02	0.02	0.02	0.02	0.02
21	off	off	0.02	0.02	0.02	0.02	0.02
22	off	off	0.02	0.02	0.02	0.02	0.02
23	off	off	0.02	0.02	0.02	0.02	0.02
24	off	off	0.02	0.02	off	off	0.02
25	off	0.02	0.02	off	off	off	0.02
26	off	off	0.02	0.02	off	off	0.02
27	off	off	0.02	0.02	0.02	0.02	0.02
28	off	off	0.02	off	0.02	0.02	0.02
29	off	off	0.02	0.02	0.02	0.02	0.02
30	off	off	0.02	0.02	0.02	0.02	0.02
31							0.00

<b>Conventional or Direct Filtration</b>		<b>Monthly Summary (Answer Yes or No)</b>	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No	CT's met every day? (see back) <input checked="" type="radio"/> Yes / <input type="radio"/> No	All Cl <sub>2</sub> 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			
All turbidity readings < IFE <sup>2</sup> triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No <sup>2</sup>			
Notes:	PRINTED NAME: Alan Schacht		
	SIGNATURE: <i>Alan Schacht</i>	DATE: 7-7-23	
	PHONE #: (971) 666 0748	CERT #: 3302	

<sup>1</sup> 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.

<sup>2</sup> IFE = Individ. Filter Effl. (OAR 333-081-0040(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

Jun-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total		CT Met? <sup>3</sup> Yes / No
	Minimum free chlorine residual after pre-chlorination (C) <sup>3</sup> [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) <sup>3</sup> [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/ 20:00	0.79	12444	30.8	24.3	7.30	17.3	25.4	1.0	95.7	0.91	13410	54.1	44.9	7.67	16.5	31.3	1.4	143.5	2.39	239.1	Yes
2/ 18:00	0.79	12569	30.9	20.8	7.26	17.9	24.0	0.9	86.7	0.83	13416	54.1	41.6	7.65	16.5	30.8	1.4	135.1	2.22	221.7	Yes
3/ 20:00	0.81	12527	30.6	24.8	7.31	18.8	23.1	1.1	107.4	0.86	11609	62.6	49.5	7.67	17.8	28.4	1.7	174.3	2.31	281.7	Yes
4/ 13:00	0.70	13534	28.7	20.1	7.19	15.4	27.6	0.7	72.8	0.90	14132	51.3	42.2	7.69	14.1	36.8	1.1	114.7	1.87	187.5	Yes
5/ 14:00	0.50	12611	23.4	11.7	7.22	16.3	25.6	0.5	45.7	1.00	13416	54.1	52.5	7.66	14.5	35.9	1.5	146.2	1.92	191.9	Yes
6/ 13:00	0.63	13451	29.7	18.7	7.22	16.2	26.2	0.7	71.4	0.99	13416	54.1	49.3	7.68	14.9	35.4	1.4	139.3	2.11	210.6	Yes
7/ 14:00	0.55	13277	29.0	16.4	7.29	17.3	24.7	0.7	66.4	0.97	13416	54.1	48.9	7.70	16.6	31.6	1.5	154.7	2.19	221.1	Yes
8/ 17:00	0.62	13236	29.4	18.2	7.30	17.7	24.3	0.7	74.9	0.99	13416	54.1	49.7	7.70	16.8	31.4	1.6	158.3	2.33	233.2	Yes
9/ 19:00	0.64	8437	42.7	24.3	7.28	16.7	25.9	0.9	93.8	0.96	7436	98.4	87.0	7.67	15.9	32.8	2.7	265.2	3.60	359.1	Yes
10/ 20:00	0.84	12486	32.3	27.1	7.32	20.0	21.5	1.3	126.0	0.98	10344	70.4	62.9	7.68	19.0	27.0	2.3	233.0	3.59	359.0	Yes
11/ 07:00	0.76	12402	31.5	23.9	7.18	16.7	25.3	0.9	94.5	0.99	12713	57.1	51.5	7.67	16.6	31.3	1.6	164.5	2.59	259.0	Yes
12/ 11:00	0.55	13409	29.9	16.5	7.19	16.9	24.5	0.7	67.3	1.12	13416	54.1	55.2	7.69	16.0	33.4	1.7	165.3	2.33	232.6	Yes
13/ 13:00	0.62	13368	30.7	19.0	7.26	17.8	23.7	0.8	80.2	1.05	13416	54.1	51.8	7.71	16.8	31.6	1.6	163.9	2.44	244.1	Yes
14/ 16:00	0.43	12326	24.6	10.6	7.25	17.7	23.4	0.5	45.3	1.04	13416	54.1	53.3	7.68	16.5	31.9	1.7	167.1	2.13	212.4	Yes
15/ 20:00	0.79	8652	41.9	20.3	7.31	19.9	21.5	0.9	94.4	1.01	13416	41.9	38.5	7.70	19.0	27.1	1.4	142.1	2.36	236.5	Yes
16/ 21:00	0.72	12243	31.6	22.8	7.33	20.8	20.1	1.1	113.4	0.92	12113	60.0	50.0	7.69	19.8	25.3	2.0	197.6	3.10	311.1	Yes
17/ 20:00	0.77	12444	29.6	22.8	7.33	18.8	23.1	1.0	98.7	0.93	12586	57.7	48.9	7.70	18.0	28.6	1.7	171.0	2.69	269.7	Yes
18/ 12:00	0.70	12326	31.4	20.8	7.25	16.9	25.5	0.8	81.6	0.92	11046	65.9	55.6	7.70	16.3	32.0	1.7	173.8	2.63	255.3	Yes
19/ 20:00	0.70	8618	41.0	28.7	7.28	17.9	24.0	1.2	119.6	0.92	10222	71.3	62.9	7.68	17.1	30.3	2.1	207.6	3.27	327.2	Yes
20/ 21:00	0.73	8506	42.8	31.2	7.32	17.8	24.6	1.3	126.8	0.97	10216	71.3	64.7	7.57	17.0	29.4	2.2	220.1	3.47	346.9	Yes
21/ 19:00	0.91	15402	26.2	23.8	7.37	19.9	22.3	1.1	106.7	0.88	13416	54.1	45.4	7.58	18.9	25.8	1.8	176.0	2.83	282.7	Yes
22/ 14:00	0.65	12402	30.8	20.0	7.28	17.8	24.1	0.8	83.0	0.94	13097	55.4	47.9	7.56	16.5	30.1	1.6	159.1	2.42	242.1	Yes
23/ 21:00	0.75	12402	29.7	22.3	7.34	20.9	20.2	1.1	110.4	0.80	12783	56.8	41.8	7.57	20.2	23.2	1.8	180.2	2.91	290.6	Yes
24/ 20:00	0.83	12326	31.6	26.2	7.35	20.8	20.6	1.3	127.2	0.85	12221	59.4	43.5	7.58	20.0	23.6	1.8	184.3	3.13	311.5	Yes
25/ 10:00	0.82	12361	31.5	25.8	7.26	17.2	25.5	1.0	101.2	0.82	12816	56.7	42.7	7.58	16.5	29.9	1.4	142.8	2.44	244.0	Yes
26/ 10:00	0.83	13534	30.0	24.9	7.26	17.5	25.0	1.0	99.6	0.88	12496	58.1	43.8	7.56	17.0	29.0	1.5	151.0	2.50	250.6	Yes
27/ 15:00	0.72	15451	24.0	17.3	7.32	19.8	21.6	0.8	80.1	0.89	17882	40.4	33.4	7.55	18.3	26.4	1.3	126.5	2.07	206.6	Yes
28/ 16:00	0.67	13493	30.0	20.1	7.26	20.1	20.5	1.0	98.0	0.89	13416	54.1	45.2	7.61	18.1	27.4	1.6	165.0	2.63	263.0	Yes
29/ 11:00	0.54	13319	29.9	16.1	7.27	18.9	21.9	0.7	73.5	0.89	13416	54.1	44.3	7.55	18.1	26.7	1.7	165.9	2.39	239.4	Yes
30/ 21:00	0.85	13277	29.8	25.4	7.37	23.0	17.9	1.4	141.9	0.85	13416	54.1	42.6	7.61	22.0	20.9	2.0	203.8	3.45	345.7	Yes

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