

**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: Sep-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	off	0.03	0.03	0.02	0.02	0.03
2	off	off	0.02	0.02	off	off	0.02
3	off	0.02	0.02	off	off	off	0.02
4	off	off	0.03	0.03	0.03	off	0.03
5	off	off	0.02	off	0.02	off	0.02
6	off	off	0.03	0.02	0.04	off	0.04
7	off	off	0.02	0.03	0.03	off	0.03
8	off	off	0.02	0.02	0.02	0.02	0.02
9	off	off	0.02	0.02	off	off	0.02
10	off	0.02	0.02	off	off	off	0.02
11	off	off	0.02	0.03	0.03	0.03	0.03
12	off	off	0.02	0.02	0.03	0.03	0.03
13	off	off	0.02	0.03	0.05	0.03	0.05
14	off	off	0.03	0.03	0.03	0.03	0.03
15	off	off	0.02	0.03	0.02	0.02	0.03
16	off	off	0.02	0.02	off	off	0.02
17	off	0.02	0.03	off	off	off	0.03
18	off	off	0.02	0.02	0.03	0.03	0.03
19	off	off	0.02	0.02	0.03	off	0.03
20	off	off	off	0.02	0.02	0.02	0.02
21	off	off	0.02	0.02	off	off	0.02
22	off	off	0.03	0.02	0.02	0.02	0.03
23	off	off	0.02	0.02	off	off	0.02
24	off	0.02	0.02	off	off	off	0.02
25	off	off	0.02	0.03	0.03	0.03	0.03
26	off	off	0.02	0.04	0.04	0.04	0.04
27	off	off	off	0.03	0.03	0.03	0.03
28	off	off	0.02	0.02	0.03	0.03	0.03
29	off	off	0.03	0.03	0.03	0.02	0.03
30	off	off	0.02	0.02	off	off	0.02
31							

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			
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No ²			
Notes:	PRINTED NAME: <i>Travis Andrews</i>		
	SIGNATURE: <i>[Signature]</i>	DATE: <i>10-1-23</i>	
	PHONE #: <i>(503) 956-2645</i>	CERT #: <i>T450182</i>	

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 = Indiv. Filter Eff. (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

Sep-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? ³ Yes / No		
	Minimum free chlorine residual after pre-chlorination (C) [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/ 20:00	0.73	13111	28.1	20.5	7.51	21.4	20.9	1.0	98.1	0.94	15208	47.3	44.5	7.62	20.5	23.7	1.9	187.8	2.91	285.8	Yes	
2/ 15:00	0.65	13152	29.3	19.1	7.41	20.2	21.6	0.9	88.4	0.87	14569	49.5	43.1	7.66	19.0	26.3	1.6	163.9	2.52	252.3	Yes	
3/ 10:00	0.75	13236	28.3	21.2	7.29	19.5	21.8	1.0	97.2	0.88	15729	46.6	41.0	7.62	19.3	25.5	1.6	160.8	2.58	258.0	Yes	
4/ 12:00	0.63	12076	29.7	18.7	7.33	18.6	23.1	0.8	81.0	0.96	12986	56.9	54.6	7.65	18.0	28.1	1.9	194.3	2.75	275.3	Yes	
5/ 17:00	0.61	15402	26.5	16.2	7.40	19.5	22.4	0.7	72.3	0.89	15763	49.2	43.8	7.66	17.5	29.0	1.5	151.0	2.23	223.4	Yes	
6/ 08:00	0.80	13277	29.0	23.2	7.38	18.7	23.8	1.0	97.5	0.83	15763	50.4	41.8	7.69	18.9	26.5	1.6	157.7	2.55	255.2	Yes	
7/ 08:00	0.46	11631	30.6	14.1	7.50	20.2	21.8	0.6	64.7	0.80	12986	58.0	46.4	7.61	19.5	24.8	1.9	187.1	2.52	251.8	Yes	
8/ 20:00	0.84	9534	32.5	27.3	7.55	20.1	23.3	1.2	117.2	0.95	10208	71.8	68.2	7.63	19.1	25.9	2.6	263.3	3.80	380.5	Yes	
9/ 19:00	0.72	12402	29.4	21.2	7.57	20.2	23.1	0.9	91.8	0.89	13486	54.2	48.2	7.64	19.1	25.8	1.9	186.8	2.78	278.6	Yes	
10/ 11:00	0.73	11548	32.3	23.6	7.30	18.3	23.6	1.0	100.0	0.87	12659	57.2	49.8	7.64	17.9	28.1	1.8	177.2	2.77	277.2	Yes	
11/ 20:00	0.58	9388	38.3	22.2	7.35	18.1	23.9	0.9	92.9	0.95	10208	71.1	67.6	7.64	17.5	29.2	2.3	231.5	3.25	324.4	Yes	
12/ 10:00	0.62	11548	33.5	20.8	7.56	20.3	22.6	0.9	92.0	0.94	12506	58.0	54.6	7.64	19.6	25.3	2.2	215.8	3.07	307.8	Yes	
13/ 13:00	0.81	12527	29.6	24.0	7.34	18.8	23.4	1.0	102.6	0.94	12986	56.6	53.2	7.56	18.4	26.5	2.0	200.8	3.04	303.3	Yes	
14/ 21:00	0.65	11715	31.9	20.7	7.36	18.0	24.4	0.8	84.8	0.94	12986	56.7	53.3	7.67	17.2	30.0	1.8	177.7	2.62	262.5	Yes	
15/ 17:00	0.65	9423	36.8	23.9	7.54	20.3	22.5	1.1	106.2	0.94	10208	72.5	68.1	7.63	19.3	25.7	2.6	265.0	3.71	371.2	Yes	
16/ 08:00	0.88	12611	30.6	26.9	7.52	19.7	23.8	1.1	113.0	0.94	12986	57.0	53.6	7.64	18.6	26.9	2.0	199.3	3.12	312.3	Yes	
	0.83	11631	31.1	25.8	7.32	18.3	24.1	1.1	107.1	0.93	12986	56.6	52.6	7.65	18.1	27.9	1.9	188.5	2.96	295.6	Yes	
18/ 20:00	0.64	11590	31.5	20.2	7.56	18.8	24.9	0.8	81.1	0.98	12986	56.3	55.2	7.65	18.2	27.8	2.0	198.6	2.79	279.7	Yes	
19/ 12:00	0.50	11590	32.5	16.3	7.36	16.6	26.4	0.6	61.7	1.00	12986	56.5	56.5	7.65	15.9	32.6	1.7	173.3	2.35	235.1	Yes	
20/ 17:00	0.69	11513	30.3	20.9	7.52	17.6	26.7	0.8	78.3	0.98	12986	56.2	55.1	7.63	16.9	30.3	1.8	181.8	2.60	260.1	Yes	
21/ 13:00	0.65	11472	31.4	20.4	7.39	15.9	28.5	0.7	71.6	0.98	12986	56.2	55.1	7.65	15.0	34.7	1.6	158.8	2.31	230.4	Yes	
22/ 17:00	0.78	11388	31.7	24.7	7.47	17.5	26.6	0.9	92.9	0.94	12986	55.9	52.6	7.65	16.5	31.2	1.7	168.6	2.61	261.4	Yes	
23/ 16:00	0.87	11513	32.1	27.9	7.49	17.0	28.3	1.0	98.6	0.94	12986	55.9	52.6	7.65	16.2	31.8	1.7	165.4	2.64	264.0	Yes	
24/ 09:00	0.76	9388	36.8	27.9	7.31	16.3	27.2	1.0	102.6	0.88	10104	72.8	64.0	7.61	15.8	31.9	2.0	200.6	3.03	303.2	Yes	
25/ 21:00	0.73	8291	36.7	26.8	7.41	16.2	28.4	0.9	94.4	0.94	10201	71.6	67.3	7.62	15.4	33.2	2.0	202.7	2.97	297.1	Yes	
26/ 20:00	0.66	8437	39.5	26.1	7.49	16.6	28.3	0.9	0.9	0.94	9854	74.1	69.7	7.63	15.7	32.6	2.1	213.8	3.06	214.7	Yes	
27/ 11:00	0.93	8506	29.5	27.4	7.41	16.2	29.0	0.9	94.5	0.84	10208	72.7	61.1	7.60	15.6	32.1	1.9	190.3	2.85	284.8	Yes	
28/ 16:00	0.79	7284	46.7	36.9	7.44	16.0	29.3	1.3	125.9	0.94	7972	92.0	86.5	7.63	14.8	34.7	2.5	249.3	3.75	375.2	Yes	
29/ 19:00	0.80	7180	47.4	37.9	7.50	15.8	30.4	1.2	124.7	0.94	7027	103.0	96.8	7.62	14.9	34.4	2.8	281.4	4.06	406.1	Yes	
30/ 16:00	0.71	8256	40.3	28.6	7.42	15.6	29.6	1.0	96.6	0.95	9513	76.5	72.6	7.64	14.3	35.9	2.0	202.2	2.99	298.9	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.