


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

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **10/2021**

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	0.02	0.02	0.02	0.02	0.02
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	0.02	0.02	off	off	0.02
5	off	off	0.02	0.02	0.02	off	0.02
6	off	off	off	0.02	0.02	off	0.02
7	off	off	off	0.02	0.02	off	0.02
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	off	0.02	0.02	off	0.02
12	off	off	0.02	0.02	off	off	0.02
13	off	off	0.02	0.02	off	off	0.02
14	off	off	0.02	0.02	off	off	0.02
15	off	off	0.02	0.02	0.02	0.02	0.02
16	off	off	off	0.02	0.02	off	0.02
17	off	0.02	0.02	off	off	off	0.02
18	off	off	0.02	0.02	0.02	off	0.02
19	off	off	off	0.02	0.02	off	0.02
20	off	off	off	0.02	0.02	off	0.02
21	off	off	off	0.02	0.02	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	off	0.02	0.02	off	0.02
26	off	off	off	0.02	0.03	off	0.03
27	off	off	off	0.02	0.02	off	0.02
28	off	off	off	0.02	0.02	off	0.02
29	off	off	0.02	0.02	0.02	0.02	0.02
30	off	off	0.02	0.02	off	off	0.02
31	off	0.02	0.02	off	off	off	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 / No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes / No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / No	
All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes / No			
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes / No ²			
Notes:	PRINTED NAME: Rob Cummings		
	SIGNATURE: 	DATE: 11/3/21	
	PHONE #: (503) 722-9247	CERT #: 5017	

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

WTP - : A

System Name: Clackamas River Water-Clackamas ID#: 4100187

Month/Year: Month Year 21 Oct-21

Disinfection
Giardia Log
Inactiv: 1

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? ³		
	Minimum free chlorine residual after pre-chlorination (C) ₃	Peak hourly demand flow (Pre)	Contact time (Pre) (T)	Actual CT (Pre)	pH (Pre)	temp (Pre)	Required CT (Total)	Actual CT / Required CT (Pre)	Percent log inactivation achieved (Pre)	Minimum free chlorine residual after post-chlorination (C) ₃	Peak hourly demand flow (Post)	Contact Time (Post) (T)	Actual CT (Post)	pH (Post)	temp (Post)	Required CT (Total)	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
	[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula						
1/ 18:00	0.70	10076	34.6	24.2	7.47	16.2	29.5	0.8	82.1	0.95	11472	58.2	55.3	7.63	15.30	33.9	1.6	163.3	2.45	245.4	yes	
2/ 13:00	0.77	11965	32.0	24.6	7.38	14.8	31.5	0.8	78.2	0.95	14118	50.7	48.2	7.65	13.90	37.3	1.3	129.1	2.07	207.3	yes	
3/ 10:00	0.63	8687	41.8	26.3	7.27	14.3	30.9	0.9	85.3	0.95	7791	91.6	87.0	7.61	13.90	36.8	2.4	236.5	3.22	321.8	yes	
4/ 11:00	0.89	12104	29.9	26.6	7.22	14.6	30.6	0.9	86.9	0.94	13979	54.4	51.1	7.55	13.90	36.0	1.4	142.0	2.29	228.9	yes	
5/ 15:00	0.73	10374	32.6	23.8	7.40	14.6	32.0	0.7	74.4	0.93	10902	59.7	55.5	7.63	13.70	37.5	1.5	148.3	2.23	222.7	yes	
6/ 12:00	0.15	10986	35.2	5.3	7.45	14.5	30.7	0.2	17.2	0.74	12104	66.0	48.8	7.58	13.80	35.8	1.4	136.4	1.54	153.5	yes	
7/ 16:00	0.77	10770	33.1	25.5	7.50	14.0	34.5	0.7	73.8	0.96	11979	59.2	56.8	7.62	12.90	39.4	1.4	144.1	2.18	217.9	yes	
8/ 19:00	0.86	11923	32.3	27.8	7.61	14.0	36.2	0.8	76.7	0.94	11513	56.6	53.2	7.61	13.00	39.0	1.4	136.5	2.13	213.3	yes	
9/ 17:00	0.70	9430	40.5	28.4	7.62	13.6	36.6	0.8	77.4	0.97	8479	80.6	78.2	7.63	12.50	40.7	1.9	192.2	2.70	269.6	yes	
10/ 07:00	0.82	9777	41.7	34.2	7.48	14.2	34.0	1.0	100.5	0.94	7749	90.0	84.6	7.59	13.30	37.9	2.2	222.9	3.23	323.4	yes	
11/ 14:00	0.66	9618	40.3	26.6	7.42	13.2	34.9	0.8	76.1	0.99	10673	64.9	64.3	7.56	12.20	40.6	1.6	158.4	2.35	234.5	yes	
12/ 14:00	0.72	13208	31.6	22.8	7.52	11.8	39.8	0.6	57.1	0.96	15145	45.3	43.5	7.67	10.70	46.4	0.9	93.7	1.51	150.8	yes	
13/ 13:00	0.83	13062	30.9	25.6	7.47	12.2	38.6	0.7	66.4	0.94	15027	48.5	45.6	7.65	11.30	44.2	1.0	103.2	1.70	169.6	yes	
14/ 11:00	0.96	11430	33.4	32.1	7.34	12.3	37.2	0.9	86.1	0.95	12048	52.0	49.4	7.63	11.60	43.1	1.1	114.7	2.01	200.9	yes	
15/ 17:00	0.85	11486	34.3	29.2	7.58	13.2	37.7	0.8	77.4	0.97	9090	72.3	70.1	7.63	12.20	41.5	1.7	169.1	2.46	246.4	yes	
16/ 17:00	0.90	11777	35.5	32.0	7.62	12.9	39.2	0.8	81.5	0.96	11194	61.7	59.2	7.64	11.90	42.4	1.4	139.7	2.21	221.2	yes	
17/ 10:00	0.83	9638	41.6	34.5	7.41	11.9	38.6	0.9	89.5	0.97	11611	57.4	55.7	7.62	11.40	43.6	1.3	127.8	2.17	217.3	yes	
18/ 09:00	0.54	8472	41.5	22.4	7.53	12.2	38.2	0.6	58.7	0.80	10229	73.0	58.4	7.63	11.20	43.5	1.3	134.4	1.93	193.1	yes	
19/ 16:00	0.82	9055	40.4	33.1	7.54	12.3	39.3	0.8	84.4	0.97	9909	77.8	75.5	7.59	11.40	43.1	1.8	175.1	2.59	259.4	yes	
20/ 15:00	0.62	8916	39.4	24.4	7.54	12.8	37.2	0.7	65.7	0.96	11006	65.0	62.4	7.54	11.80	41.2	1.5	151.4	2.17	217.1	yes	
21/ 20:00	0.87	9354	40.3	35.1	7.73	13.1	40.0	0.9	87.6	0.94	10722	60.4	56.8	7.70	12.20	42.4	1.3	134.0	2.22	221.6	yes	
22/ 18:00	0.81	10826	31.3	25.4	7.46	13.0	36.5	0.7	69.5	0.96	11583	57.7	55.4	7.56	12.20	40.4	1.4	137.0	2.07	206.5	yes	
23/ 11:00	0.81	11069	29.3	23.7	7.28	12.3	35.9	0.7	66.2	1.00	13722	51.9	51.9	7.58	11.80	42.0	1.2	123.6	1.90	189.8	yes	
24/ 08:00	0.88	8298	40.6	35.7	7.29	12.2	36.5	1.0	97.9	0.96	7763	86.7	83.2	7.57	11.60	42.2	2.0	197.2	2.95	295.1	yes	
25/ 15:00	0.69	8909	40.6	28.0	7.36	12.0	37.1	0.8	75.5	0.98	10583	71.0	69.6	7.59	11.00	44.3	1.6	157.0	2.01	232.6	yes	
26/ 16:00	0.77	9131	40.8	31.4	7.37	13.1	35.0	0.9	89.8	0.97	10590	65.7	63.7	7.58	11.30	43.2	1.5	147.4	2.37	237.2	yes	
27/ 17:00	0.74	9236	39.8	29.5	7.33	12.5	35.7	0.8	82.4	0.98	10805	68.7	67.3	7.57	11.30	43.1	1.6	156.1	2.38	238.5	yes	
28/ 18:00	0.67	9284	51.4	34.4	7.31	13.0	34.1	1.0	100.9	0.97	10833	59.5	57.7	7.57	11.80	41.7	1.4	138.4	2.39	239.4	yes	
29/ 10:00	0.69	9374	42.9	29.6	7.24	12.9	33.6	0.9	88.1	1.00	8180	80.0	80.0	7.55	11.90	41.3	1.9	193.8	2.82	281.9	yes	
30/ 11:00	0.82	13104	31.3	25.7	7.16	11.4	36.5	0.7	70.3	0.97	12416	50.9	49.4	7.59	10.30	46.4	1.1	106.5	1.77	176.8	yes	
31/ 05:00	0.73	9097	35.4	25.8	7.17	11.6	35.8	0.7	72.2	0.90	10652	61.1	55.0	7.62	11.00	44.4	1.2	123.9	1.96	196.1	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.