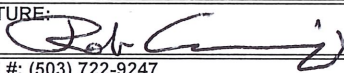


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **5/2021**

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	off	0.03	0.02	off	0.06
2	off	off	0.02	0.02	off	off	0.06
3	off	off	0.02	0.02	0.02	off	0.05
4	off	off	0.02	0.02	0.02	off	0.05
5	off	off	0.03	0.02	0.02	off	0.05
6	off	off	0.02	0.02	0.02	off	0.05
7	off	off	0.03	0.02	0.02	0.02	0.05
8	off	off	off	0.02	0.02	off	0.05
9	off	off	0.03	0.02	off	off	0.06
10	off	off	off	0.02	off	off	0.05
11	off	off	0.02	0.03	off	off	0.06
12	off	off	0.03	0.02	0.02	off	0.06
13	off	off	0.02	0.02	0.02	off	0.05
14	off	off	0.02	0.02	0.02	0.03	0.07
15	off	off	off	0.02	0.02	off	0.07
16	off	off	0.03	0.02	off	off	0.07
17	off	off	0.02	0.02	0.02	off	0.06
18	off	off	0.02	0.02	0.03	off	0.07
19	off	off	0.02	0.02	0.02	off	0.07
20	off	off	off	0.02	0.02	off	0.04
21	off	off	0.02	0.02	0.02	0.02	0.03
22	off	off	off	0.02	0.02	off	0.03
23	off	off	0.02	0.02	off	off	0.04
24	off	off	0.02	0.02	0.02	off	0.11
25	off	off	0.02	0.02	0.02	off	0.04
26	off	off	0.02	0.02	0.02	off	0.09
27	off	off	0.02	0.02	0.02	off	0.03
28	off	off	0.02	0.02	0.02	0.02	0.03
29	off	off	off	0.02	0.02	off	0.04
30	off	off	0.03	0.02	off	off	0.04
31	off	off	0.02	0.02	off	off	0.03

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: 6/1/21	
	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: May-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/ 15:00	0.84	12124	34.6	29.1	6.95	12.5	31.0	0.9	93.9	0.86	11631	57.7	49.6	7.63	11.40	43.2	1.1	114.9	2.09	208.8	yes	
2/ 11:00	0.82	11708	34.3	28.1	6.86	12.1	31.5	0.9	89.2	0.86	11743	60.1	51.7	7.63	10.90	44.6	1.2	115.8	2.05	205.1	yes	
3/ 14:00	0.61	7472	46.2	28.2	6.87	12.4	30.3	0.9	92.9	0.88	8090	87.2	76.7	7.63	11.20	43.9	1.7	175.0	2.68	267.9	yes	
4/ 18:00	0.71	8708	39.7	28.2	6.91	14.3	26.6	1.1	106.0	0.87	9104	73.8	64.2	7.61	12.80	39.2	1.6	163.9	2.70	269.9	yes	
5/ 16:00	0.71	8791	35.0	24.9	6.90	14.1	27.9	0.9	89.2	0.86	9194	76.0	65.4	7.62	12.40	40.3	1.6	162.2	2.51	251.4	yes	
6/ 15:00	0.84	7069	43.0	36.2	6.93	13.3	29.2	1.2	124.0	0.84	8159	95.6	80.3	7.63	12.00	41.4	1.9	193.9	3.18	317.9	yes	
7/ 10:00	0.80	8055	40.6	32.5	6.87	12.4	31.0	1.0	104.9	0.83	10708	68.3	56.7	7.59	12.40	39.7	1.4	142.6	2.47	247.5	yes	
8/ 13:00	0.75	9236	48.0	36.0	6.89	12.1	31.6	1.1	113.9	0.87	9777	68.2	59.3	7.64	10.80	45.1	1.3	131.5	2.45	245.4	yes	
9/ 08:00	0.81	12048	35.7	28.9	6.83	12.0	31.4	0.9	92.2	0.86	9736	67.3	57.9	7.61	11.60	42.3	1.4	136.8	2.29	228.9	yes	
10/ 13:00	0.49	10736	36.9	18.1	6.91	12.5	30.2	0.6	59.9	0.90	10187	69.0	62.1	7.64	11.60	43.0	1.4	144.6	2.04	204.5	yes	
11/14:00	0.59	12451	32.4	19.1	6.88	13.2	28.9	0.7	66.1	0.88	11368	54.6	48.0	7.64	11.60	42.9	1.1	112.1	1.78	178.2	yes	
12/ 14:00	0.56	10736	34.4	19.3	6.93	13.8	28.2	0.7	68.3	0.88	11812	54.1	47.6	7.64	12.10	41.5	1.1	114.8	1.83	183.1	yes	
13/ 15:00	0.55	9402	39.5	21.7	6.93	15.1	26.0	0.8	83.5	0.88	11874	54.7	48.1	7.64	13.10	38.9	1.2	123.9	2.07	207.4	yes	
14/22:00	0.87	11326	32.0	27.8	7.00	17.3	24.1	1.2	115.6	0.78	11666	53.2	41.5	7.60	16.30	30.9	1.3	134.4	2.50	250.0	yes	
15/ 15:00	0.83	14222	27.8	23.1	6.96	15.8	25.9	0.9	89.0	0.85	15965	43.7	37.1	7.65	14.20	36.2	1.0	102.6	1.92	191.7	yes	
16/ 09:00	0.80	11777	30.9	24.7	6.87	13.6	28.7	0.9	86.0	0.91	11437	56.3	51.2	7.64	13.10	39.0	1.3	131.4	2.17	217.5	yes	
17/ 14:00	0.64	9236	37.7	24.1	6.92	15.0	26.3	0.9	91.5	0.85	11687	64.4	54.7	7.66	13.70	37.5	1.5	145.9	2.37	237.4	yes	
18/ 21:00	1.02	13791	29.7	30.3	7.08	16.2	26.8	1.1	112.9	0.85	14208	52.7	44.8	7.63	15.10	33.9	1.3	132.0	2.45	244.9	yes	
19/ 21:00	0.93	8083	41.0	38.1	7.00	15.7	26.7	1.4	142.8	0.84	10694	64.8	54.4	7.63	14.80	34.5	1.6	157.6	3.00	300.4	yes	
20/ 19:00	0.77	8069	44.2	34.0	6.99	14.4	28.4	1.2	120.0	0.85	9499	77.1	65.5	7.65	13.60	37.6	1.7	174.2	2.94	294.2	yes	
21/ 11:00	0.75	9097	37.7	28.3	6.91	12.6	30.8	0.9	91.7	0.86	8743	89.7	77.1	7.64	12.80	39.5	2.0	195.1	2.87	286.8	yes	
22/ 14:00	0.71	11548	32.2	22.9	6.94	13.1	29.3	0.8	78.0	0.84	13749	49.8	41.8	7.67	11.90	42.3	1.0	98.9	1.77	177.0	yes	
23/ 08:00	0.76	11381	34.8	26.4	6.87	12.7	30.3	0.9	87.4	0.84	11243	58.3	49.0	7.63	12.60	39.8	1.2	123.0	2.10	210.4	yes	
24/ 17:00	0.76	6784	44.7	34.0	6.96	13.1	30.4	1.1	111.7	0.85	10062	69.8	59.3	7.65	11.90	42.0	1.4	141.2	2.53	252.9	yes	
25/ 13:00	0.63	8354	42.5	26.8	6.88	13.0	29.4	0.9	91.1	0.82	9097	76.8	63.0	7.65	11.90	41.9	1.5	150.3	2.01	241.5	yes	
26/ 09:00	0.65	8569	39.3	25.5	6.84	12.7	29.6	0.9	86.3	0.85	11118	66.4	56.4	7.65	12.60	40.1	1.4	140.6	2.27	226.9	yes	
27/ 20:00	0.94	8680	38.6	36.3	7.04	15.3	27.8	1.3	130.7	0.83	11124	61.3	50.9	7.59	14.20	35.4	1.4	143.8	2.75	274.5	yes	
28/ 20:00	0.80	11256	32.4	25.9	7.05	16.3	25.8	1.0	100.4	0.87	12520	52.8	45.9	7.59	15.10	33.5	1.4	137.0	2.37	237.4	yes	
29/ 17:00	0.63	8576	38.8	24.4	6.96	16.3	24.6	1.0	99.3	0.88	8805	79.2	69.7	7.58	14.40	35.0	2.0	199.2	2.98	298.4	yes	
30/ 08:00	0.79	11270	25.7	20.3	6.95	15.7	25.9	0.8	78.4	0.83	9104	76.6	63.6	7.57	16.40	30.5	2.1	208.1	2.87	286.5	yes	
31/ 14:00	0.69	13256	30.0	20.7	6.96	16.1	25.1	0.8	82.5	0.90	14409	51.4	46.3	7.62	14.40	35.6	1.3	130.1	2.13	212.6	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.