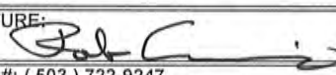


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas**  
**Conventional or Direct Filtration**

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **4/2022**

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	off	off	0.02
3	off	0.02	0.02	off	off	off	0.02
4	off	off	0.02	0.01	0.02	off	0.02
5	off	off	0.01	0.02	0.01	off	0.02
6	off	off	0.01	0.01	0.02	off	0.02
7	off	off	0.01	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	0.01	0.02	off	0.03
12	off	off	off	0.01	0.01	off	0.01
13	off	off	off	0.01	0.02	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	0.02	0.02	off	off	0.02
17	off	0.02	0.02	off	off	off	0.02
18	off	off	off	0.02	0.02	off	0.02
19	off	off	off	0.02	off	off	0.02
20	off	off	0.02	0.02	off	off	0.02
21	off	off	0.02	0.03	0.02	off	0.03
22	off	off	0.02	0.02	0.02	0.02	0.02
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	0.02	off	0.02
27	off	off	off	0.02	0.02	off	0.02
28	off	off	0.02	0.03	0.02	off	0.03
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							

<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 / No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes / No	All Cl <sub>2</sub> 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	Notes:		
All turbidity readings < IFE <sup>2</sup> triggers? <input checked="" type="radio"/> Yes / No	PRINTED NAME: Rob Cummings		
	SIGNATURE: 	DATE: 5/9/22	
	PHONE #: ( 503 ) 722-9247	CERT #: 5017	

<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 333-061-0040(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: Apr-22

Disinfection  
Giardia Log  
Inactiv: 1

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? <sup>3</sup>		
	Minimum free chlorine residual after pre-chlorination ( C ) <sub>3</sub>	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 ) <sub>3</sub>	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/ 21:00	0.83	9215	38.5	32.0	7.35	11.6	38.5	0.8	82.9	0.90	9298	77.1	69.4	7.56	10.90	43.7	1.6	158.6	2.42	241.6	yes	
2/ 17:00	0.77	11062	34.0	26.2	7.42	11.7	39.0	0.7	67.2	0.90	11652	61.2	55.1	7.60	10.50	45.5	1.2	120.9	1.88	188.1	yes	
3/ 09:00	0.88	9319	41.2	36.3	7.19	9.3	42.6	0.9	85.1	0.90	5166	134.6	121.1	7.57	9.00	49.8	2.4	243.3	3.28	328.4	yes	
4/ 09:00	0.80	7361	45.8	36.6	7.21	10.1	40.3	0.9	90.8	0.96	8180	95.4	91.6	7.62	9.00	51.0	1.8	179.4	2.70	270.3	yes	
5/ 09:00	0.79	7249	45.1	35.6	7.24	9.7	41.8	0.9	85.3	0.58	8201	90.9	52.7	7.54	9.60	45.6	1.2	115.5	2.01	200.8	yes	
6/ 09:00	0.57	7506	44.9	25.6	7.28	10.1	40.3	0.6	63.5	0.84	8333	82.0	68.9	7.55	9.60	47.2	1.5	146.0	2.10	209.5	yes	
7/ 14:00	0.71	9326	39.3	27.9	7.20	10.3	39.3	0.7	71.0	0.91	10541	75.1	68.3	7.59	8.90	50.5	1.4	135.2	2.06	206.3	yes	
8/ 21:00	0.82	9527	39.4	32.3	7.34	10.5	41.2	0.8	78.4	0.90	9222	77.9	70.1	7.57	10.10	46.3	1.5	151.5	2.30	229.9	yes	
9/ 14:00	0.85	11097	32.6	27.7	7.31	10.0	42.3	0.7	65.5	0.91	11972	63.3	57.6	7.60	8.90	50.7	1.1	113.6	1.79	179.1	yes	
10/ 09:00	0.76	5284	58.6	44.5	7.21	9.6	41.5	1.1	107.4	0.89	5166	138.4	123.2	7.58	8.90	50.2	2.5	245.1	3.52	352.5	yes	
11/ 17:00	0.90	7173	45.9	41.3	7.22	8.7	44.9	0.9	92.1	0.93	8166	95.9	89.2	7.60	7.60	55.5	1.6	160.8	2.53	252.8	yes	
12/ 13:00	0.82	9597	36.7	30.1	7.22	8.6	44.8	0.7	67.2	0.99	9319	72.6	71.9	7.59	7.80	54.9	1.3	130.9	1.98	198.1	yes	
13/ 15:00	0.56	9479	36.4	20.4	7.21	8.5	43.6	0.5	46.7	0.94	12104	59.1	55.6	7.60	7.30	56.7	1.0	98.0	1.45	144.8	yes	
14/ 10:00	0.77	11062	34.0	26.2	7.42	11.7	39.0	0.7	67.2	0.90	11652	61.2	55.1	7.60	10.50	45.5	1.2	120.9	1.88	188.1	yes	
15/ 20:00	0.84	9340	38.7	32.5	7.34	10.2	42.1	0.8	77.2	0.92	9090	72.5	66.7	7.56	9.30	48.7	1.4	136.8	2.14	214.0	yes	
16/ 14:00	0.88	11201	35.3	31.1	7.32	9.0	45.5	0.7	68.3	0.93	9479	71.0	66.0	7.64	7.90	55.2	1.2	119.7	1.88	188.0	yes	
17/ 11:00	0.82	9298	35.8	29.4	7.24	8.2	46.3	0.6	63.4	0.92	9520	71.2	65.5	7.60	7.30	56.5	1.2	115.8	1.79	179.2	yes	
18/ 12:00	0.80	7423	47.9	38.3	7.30	9.2	44.2	0.9	86.8	1.03	7611	101.0	104.0	7.62	8.50	53.2	2.0	195.5	2.82	282.3	yes	
19/ 13:00	0.66	12423	33.8	22.3	7.29	9.2	43.3	0.5	51.5	0.93	12208	61.6	57.3	7.55	8.50	51.3	1.1	111.7	1.63	163.2	yes	
20/ 11:00	0.88	12312	32.4	28.5	7.26	8.6	45.7	0.6	62.4	0.88	12409	63.5	55.9	7.60	7.80	54.4	1.0	102.7	1.65	165.1	yes	
21/ 08:00	0.58	12590	29.8	17.3	7.32	9.2	43.4	0.4	39.8	0.78	12326	57.5	44.9	7.57	8.20	51.8	0.9	86.6	1.26	126.4	yes	
22/ 20:00	0.87	9340	39.1	34.0	7.31	10.7	40.5	0.8	84.1	0.89	9187	75.1	66.8	7.57	9.90	46.8	1.4	142.7	2.27	226.7	yes	
23/ 14:00	0.75	11138	33.8	25.4	7.24	10.5	39.5	0.6	64.2	0.93	11798	60.7	56.5	7.69	9.10	51.8	1.1	109.0	1.73	173.2	yes	
24/ 09:00	0.82	9499	39.2	32.1	7.14	9.8	40.2	0.8	79.9	0.88	9395	70.0	61.6	7.56	9.40	48.2	1.3	127.8	2.08	207.7	yes	
25/ 13:00	0.77	7409	51.3	39.5	7.19	10.8	38.1	1.0	103.6	0.79	7562	100.2	79.2	7.61	10.00	46.7	1.7	169.6	2.01	273.2	yes	
26/ 11:00	0.38	7305	46.2	17.6	7.23	10.6	37.5	0.5	46.8	0.83	7624	99.8	82.8	7.60	9.70	47.7	1.7	173.8	2.21	220.6	yes	
27/ 13:00	0.61	9402	38.5	23.5	7.24	10.6	38.6	0.6	60.8	0.95	10180	71.2	67.6	7.62	9.60	49.0	1.4	138.1	1.99	198.9	yes	
28/ 17:00	0.71	10208	36.2	25.7	7.33	10.8	39.8	0.6	64.6	0.93	11541	66.5	61.8	7.60	9.80	47.9	1.3	129.2	1.94	193.8	yes	
29/ 16:00	0.82	9298	35.7	29.3	7.34	11.6	38.4	0.8	76.3	0.92	9305	69.0	63.5	7.60	10.10	46.9	1.4	135.4	2.12	211.7	yes	
30/ 16:00	0.82	9687	39.1	32.1	7.22	11.4	37.3	0.9	86.0	0.94	9347	67.7	63.6	7.61	10.30	46.7	1.4	136.3	2.22	222.3	yes	
31/																						

<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.