

# 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: 3/2022

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	0.03	0.01	0.02	off	0.03
2	off	off	0.02	0.02	0.01	off	0.02
3	off	off	0.02	0.02	0.02	off	0.02
4	off	off	0.02	0.02	0.02	0.02	0.02
5	off	off	0.02	0.02	off	off	0.02
6	off	0.02	0.02	off	off	off	0.02
7	off	off	0.01	0.01	off	off	0.01
8	off	off	0.01	0.02	off	off	0.02
9	off	off	0.02	0.01	0.02	off	0.02
10	off	off	0.02	0.01	0.02	off	0.02
11	off	off	0.02	0.02	0.02	0.02	0.02
12	off	off	0.02	0.02	off	off	0.02
13	off	0.02	0.02	off	off	off	0.02
14	off	off	off	0.02	0.01	off	0.02
15	off	off	0.02	0.02	0.02	off	0.02
16	off	off	0.02	0.02	0.01	off	0.02
17	off	off	0.02	0.02	0.02	off	0.02
18	off	off	0.02	0.02	0.02	0.02	0.02
19	off	off	0.02	0.02	off	off	0.02
20	off	0.02	0.02	off	off	off	0.02
21	off	off	off	0.02	0.02	off	0.02
22	off	off	0.02	0.02	0.02	off	0.02
23	off	off	off	0.02	0.02	off	0.02
24	off	off	0.02	0.02	off	off	0.02
25	off	off	0.02	0.02	0.02	0.02	0.02
26	off	off	0.02	0.02	off	off	0.02
27	off	0.02	0.02	off	off	off	0.02
28	off	off	off	0.01	0.02	off	0.02
29	off	off	0.02	0.01	0.02	off	0.02
30	off	off	off	off	0.02	off	0.02
31	off	off	0.02	0.02	0.02	off	0.02

<b>Conventional or Direct Filtration</b> 95% of the 4-hour turbidity readings ≤ 0.3 NTU? <u>Yes</u> / No All the 4-hour turbidity readings ≤ 1 NTU? <u>Yes</u> / No All turbidity readings < IFE <sup>2</sup> triggers? <u>Yes</u> / No <sup>2</sup>	<b>Monthly Summary (Answer Yes or No)</b> <table style="width: 100%;"> <tr> <td style="width: 50%;">CT's met everyday? (see back) <u>Yes</u>/ No</td> <td style="width: 50%;">All Cl<sub>2</sub> residuals at entry point ≥ 0.2 mg/l? <u>Yes</u>/ No</td> </tr> </table>	CT's met everyday? (see back) <u>Yes</u> / No	All Cl <sub>2</sub> residuals at entry point ≥ 0.2 mg/l? <u>Yes</u> / No		
CT's met everyday? (see back) <u>Yes</u> / No	All Cl <sub>2</sub> residuals at entry point ≥ 0.2 mg/l? <u>Yes</u> / No				
<b>Notes:</b> <div style="height: 40px;"></div>	<b>PRINTED NAME:</b> Rob Cummings <table style="width: 100%;"> <tr> <td style="width: 60%;"> <b>SIGNATURE:</b>  </td> <td style="width: 40%;"> <b>DATE:</b> 4/1/22                 </td> </tr> <tr> <td> <b>PHONE #:</b> (503) 722-9247                 </td> <td> <b>CERT #:</b> 5017                 </td> </tr> </table>	<b>SIGNATURE:</b> 	<b>DATE:</b> 4/1/22	<b>PHONE #:</b> (503) 722-9247	<b>CERT #:</b> 5017
<b>SIGNATURE:</b> 	<b>DATE:</b> 4/1/22				
<b>PHONE #:</b> (503) 722-9247	<b>CERT #:</b> 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 = Indivd. Filter Effl. (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Program - Surface Water Quality Data Form															WTP - : <b>A</b>	
System Name:    Clackamas River Water-Clackamas    ID#: 4100187										Month/Year:    Mar-22					Disinfection Giardia Log Inactiv: <b>1</b>	

	Pre-Chlorination Segment									Post-Chlorination Segment										Total	
Date / Time	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	CT Met? <sup>3</sup>
	[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula					Yes / No
1/ 12:00	0.68	7263	45.2	30.7	7.18	7.8	45.8	0.7	67.1	0.85	7756	90.7	77.1	7.64	7.00	58.1	1.3	132.8	2.00	199.9	yes
2/ 18:00	0.70	8805	39.6	27.7	6.99	9.0	39.7	0.7	69.8	0.92	9506	70.3	64.7	7.62	8.20	53.6	1.2	120.7	1.90	190.5	yes
3/ 17:00	0.65	8645	42.1	27.4	6.98	9.0	39.3	0.7	69.6	0.90	10076	69.6	62.6	7.64	8.20	53.9	1.2	116.3	1.86	185.9	yes
4/ 19:00	0.79	9687	37.6	29.7	7.04	8.9	41.1	0.7	72.3	0.93	9229	73.0	67.9	7.63	8.20	53.9	1.3	126.0	1.98	198.4	yes
5/ 15:00	0.78	9666	32.9	25.7	7.09	8.7	42.3	0.6	60.7	0.91	11652	63.1	57.4	7.66	7.60	56.6	1.0	101.5	1.62	162.2	yes
6/ 09:00	0.88	5326	59.8	52.6	7.09	8.0	44.8	1.2	117.5	0.86	5097	140.0	120.4	7.66	7.30	57.4	2.1	209.8	3.27	327.3	yes
7/ 12:00	0.69	9402	38.4	26.5	7.12	8.1	44.0	0.6	60.2	0.91	9618	80.7	73.4	7.62	6.90	58.5	1.3	125.6	1.86	185.8	yes
8/ 15:00	0.86	11270	34.7	29.8	7.08	8.3	43.7	0.7	68.3	0.91	11881	61.9	56.3	7.61	7.30	56.7	1.0	99.4	1.68	167.7	yes
9/ 08:00	0.71	9555	39.4	28.0	7.09	8.5	42.5	0.7	65.8	0.83	9749	75.8	62.9	7.52	7.70	52.9	1.2	118.8	1.85	184.6	yes
10/ 13:00	0.64	9486	39.4	25.2	7.09	8.0	43.6	0.6	57.8	0.91	9715	71.3	64.9	7.64	6.90	58.9	1.1	110.2	1.68	168.0	yes
11/ 19:00	0.83	9222	39.6	32.9	7.19	9.3	42.3	0.8	77.6	0.88	9208	80.3	70.7	7.59	8.40	52.1	1.4	135.7	2.13	213.3	yes
12/ 15:00	0.81	6020	36.1	29.2	7.10	13.8	30.7	1.0	95.3	0.93	8013	95.4	88.7	7.67	7.60	56.9	1.6	155.9	2.51	251.3	yes
13/ 08:00	0.82	9374	39.1	32.1	7.18	8.1	45.6	0.7	70.3	0.90	10569	62.9	56.6	7.56	7.50	54.9	1.0	103.2	1.73	173.4	yes
14/ 12:00	0.88	7527	44.7	39.3	7.32	8.5	47.0	0.8	83.7	0.80	8159	96.6	77.3	7.58	7.70	53.9	1.4	143.4	2.27	227.1	yes
15/ 19:00	0.78	8256	41.9	32.7	7.21	9.8	41.0	0.8	79.6	0.90	9631	70.4	63.4	7.57	8.80	50.5	1.3	125.6	2.05	205.2	yes
16/ 15:00	0.76	9569	38.6	29.3	7.20	9.3	42.2	0.7	69.6	0.91	10159	61.2	55.7	7.60	8.10	53.5	1.0	104.1	1.74	173.6	yes
17/ 15:00	0.69	9215	38.2	26.4	7.15	8.8	42.5	0.6	62.0	0.91	9888	72.7	66.2	7.60	8.00	53.9	1.2	122.8	1.85	184.8	yes
18/ 19:00	0.67	9395	38.8	26.0	7.21	10.1	39.7	0.7	65.4	0.91	9430	71.5	65.1	7.57	9.30	48.9	1.3	133.2	1.99	198.6	yes
19/ 13:00	0.80	9270	39.3	31.4	7.30	14.1	32.2	1.0	97.8	0.92	9541	70.9	65.2	7.62	8.30	53.2	1.2	122.4	2.20	220.2	yes
20/ 08:00	0.82	9326	38.5	31.6	7.14	8.7	43.2	0.7	73.0	0.90	11388	53.3	48.0	7.58	8.10	53.1	0.9	90.4	1.63	163.4	yes
21/ 14:00	0.73	8618	39.2	28.6	7.19	9.1	42.4	0.7	67.4	0.93	12451	53.8	50.0	7.61	8.20	53.5	0.9	93.6	1.61	161.0	yes
22/ 11:00	0.67	9618	37.8	25.3	7.11	9.2	40.7	0.6	62.2	0.91	9819	76.3	69.4	7.60	8.40	52.5	1.3	132.4	1.95	194.6	yes
23/ 15:00	0.87	8541	40.6	35.3	7.20	9.9	41.0	0.9	86.1	0.91	9201	74.3	67.6	7.61	9.30	49.6	1.4	136.4	2.22	222.5	yes
24/ 08:00	0.52	9694	38.8	20.2	7.20	10.1	39.0	0.5	51.8	0.85	9972	74.7	63.5	7.57	9.20	48.9	1.3	130.0	1.82	181.8	yes
25/ 20:00	0.82	9409	38.8	31.8	7.28	11.0	39.1	0.8	81.5	0.91	9354	76.1	69.3	7.55	10.30	45.4	1.5	152.5	2.01	234.0	yes
26/ 17:00	0.76	11249	38.3	29.1	6.91	15.8	25.3	1.1	115.0	0.80	10243	65.4	52.3	7.62	10.60	45.1	1.2	116.1	2.31	231.1	yes
27/ 07:00	0.82	9437	35.8	29.4	7.13	10.4	38.6	0.8	76.1	0.88	5423	123.4	108.6	7.55	9.90	46.5	2.3	233.7	3.10	309.9	yes
28/ 14:00	0.80	9249	39.3	31.4	7.21	10.8	38.5	0.8	81.6	0.91	9604	82.1	74.7	7.65	10.10	47.7	1.6	156.8	2.38	238.3	yes
29/ 13:00	0.62	9402	39.1	24.2	7.21	10.7	38.0	0.6	63.8	0.92	9611	69.0	63.5	7.60	9.80	47.8	1.3	132.7	1.97	196.5	yes
30/ 17:00	0.64	8548	40.4	25.9	7.34	11.2	38.6	0.7	67.0	0.78	8659	74.6	58.2	7.53	10.50	43.8	1.3	132.7	2.00	199.7	yes
31/ 10:00	0.83	9222	37.6	31.2	7.23	10.1	40.7	0.8	76.6	0.93	9916	67.7	63.0	7.56	9.60	47.8	1.3	131.6	2.08	208.2	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.

Revised April 2020