

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: 11/2021

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

Conventional or Direct Filtration 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 ² triggers? <u>Yes</u> / No ²	Monthly Summary (Answer Yes or No) <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 Cl₂ 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 ₂ residuals at entry point ≥ 0.2 mg/l? <u>Yes</u> / No		
CT's met everyday? (see back) <u>Yes</u> / No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <u>Yes</u> / No				
Notes: 	PRINTED NAME: Rob Cummings <table style="width: 100%;"> <tr> <td style="width: 60%;"> SIGNATURE: </td> <td style="width: 40%;"> DATE: 12/3/21 </td> </tr> <tr> <td> PHONE #: (503) 722-9247 </td> <td> CERT #: 5017 </td> </tr> </table>	SIGNATURE: 	DATE: 12/3/21	PHONE #: (503) 722-9247	CERT #: 5017
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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 = Indiv. 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: November Nov-21					Disinfection Giardia Log Inactiv: 1	

	Pre-Chlorination Segment									Post-Chlorination Segment										Total	
Date / Time	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	CT Met? ³
	[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/ 11:00	0.50	9319	34.8	17.4	6.99	11.6	32.8	0.5	53.0	0.90	10715	71.9	64.7	7.54	10.60	44.3	1.5	146.1	1.99	199.0	yes
2/ 09:00	0.06	11534	43.5	2.6	7.11	12.0	31.8	0.1	8.2	0.76	11638	61.0	46.4	7.57	10.70	43.8	1.1	105.9	1.14	114.1	yes
3/ 11:00	0.73	11298	32.4	23.7	7.03	11.0	35.5	0.7	66.7	0.88	12513	59.5	52.4	7.61	9.90	47.5	1.1	110.3	1.77	177.0	yes
4/ 11:00	0.70	10937	35.2	24.6	7.05	11.4	34.7	0.7	71.0	0.90	12409	51.3	46.2	7.62	10.30	46.5	1.0	99.3	1.70	170.3	yes
5/ 18:00	0.81	11895	32.7	26.5	7.20	11.6	36.5	0.7	72.6	0.91	11805	56.4	51.3	7.59	10.40	45.7	1.1	112.2	1.85	184.8	yes
6/ 14:00	0.81	13118	33.9	27.5	7.16	11.0	37.4	0.7	73.4	0.90	13909	46.1	41.5	7.59	9.80	47.5	0.9	87.3	1.61	160.6	yes
7/ 06:00	0.80	13479	30.3	24.2	7.12	10.5	38.1	0.6	63.6	0.90	14013	48.2	43.4	7.58	9.50	48.3	0.9	89.8	1.53	153.4	yes
8/ 21:00	0.71	9374	39.6	28.1	7.14	10.7	37.5	0.8	75.0	0.89	10354	63.8	56.8	7.59	9.90	47.2	1.2	120.4	1.95	195.4	yes
9/ 11:00	0.55	9319	40.2	22.1	7.09	10.4	36.9	0.6	59.9	0.87	11145	66.3	57.7	7.55	9.70	47.0	1.2	122.7	1.83	182.6	yes
10/ 15:00	0.69	9298	38.9	26.8	7.16	10.2	38.9	0.7	69.0	0.97	10659	64.3	62.4	7.62	9.30	50.1	1.2	124.5	1.94	193.5	yes
11/ 02:00	0.71	12187	29.6	21.0	7.07	10.1	38.0	0.6	55.3	0.93	13826	45.5	42.3	7.59	9.40	49.0	0.9	86.4	1.42	141.6	yes
12/ 11:00	0.66	7583	47.8	31.5	6.90	11.4	32.8	1.0	96.1	0.92	7409	87.0	80.0	7.63	10.30	46.8	1.7	171.1	2.67	267.2	yes
13/ 14:00	0.58	9986	42.4	24.6	6.76	12.2	29.5	0.8	83.3	0.89	8624	80.5	71.6	7.59	11.30	43.0	1.7	166.6	2.50	249.9	yes
14/ 10:00	0.62	8562	41.3	25.6	6.85	12.2	30.6	0.8	83.8	0.90	7694	86.3	77.7	7.59	11.50	42.5	1.8	182.8	2.67	266.6	yes
15/ 18:00	0.74	7597	49.5	36.6	7.06	12.4	32.8	1.1	111.6	0.90	7562	96.1	86.5	7.66	11.50	43.5	2.0	198.6	3.10	310.3	yes
16/ 13:00	0.68	7694	43.3	29.4	7.06	11.6	34.3	0.9	85.8	0.93	7701	90.0	83.7	7.66	10.50	46.7	1.8	179.3	2.65	265.1	yes
17/ 12:00	0.68	8298	37.8	25.7	7.13	10.4	38.0	0.7	67.7	0.92	8631	75.9	69.8	7.71	9.60	50.4	1.4	138.6	2.06	206.3	yes
18/ 10:00	0.84	11194	35.7	30.0	7.09	10.2	38.3	0.8	78.3	0.90	11840	59.9	53.9	7.73	9.30	51.7	1.0	104.3	1.83	182.6	yes
19/ 16:00	0.90	12527	32.6	29.3	7.17	10.4	39.4	0.7	74.4	0.89	11138	63.6	56.6	7.68	9.50	50.0	1.1	113.2	1.88	187.5	yes
20/ 12:00	0.82	9374	39.7	32.6	7.11	9.4	40.9	0.8	79.7	0.92	8694	75.6	69.6	7.70	8.50	54.1	1.3	128.7	2.08	208.3	yes
21/ 09:00	0.83	5444	59.4	49.3	7.19	8.9	43.5	1.1	113.4	0.88	4715	146.2	128.7	7.65	8.10	54.3	2.4	236.9	3.50	350.3	yes
22/ 10:00	0.83	11055	33.9	28.1	7.13	8.8	42.9	0.7	65.7	0.94	11687	55.8	52.5	7.68	7.90	56.0	0.9	93.6	1.59	159.3	yes
23/ 13:00	0.67	9194	39.8	26.6	7.22	9.1	42.6	0.6	62.5	0.89	10624	63.1	56.2	7.70	8.20	55.0	1.0	102.2	1.65	164.6	yes
24/ 16:00	0.90	9194	39.6	35.6	7.29	8.8	45.7	0.8	78.0	0.89	10437	72.6	64.6	7.68	7.90	55.7	1.2	116.0	1.94	194.0	yes
25/ 11:00	0.74	9291	39.8	29.5	7.23	8.7	44.2	0.7	66.6	0.91	10402	64.3	58.5	7.67	7.80	56.0	1.0	104.5	2.01	171.1	yes
26/ 18:00	0.89	13152	29.4	26.2	7.31	9.6	43.6	0.6	60.0	0.90	12999	48.2	43.4	7.70	8.70	53.2	0.8	81.5	1.42	141.5	yes
27/ 00:00	0.83	5493	61.4	51.0	7.28	9.6	42.9	1.2	118.9	0.90	4763	136.0	122.4	7.67	8.70	52.6	2.3	232.5	3.51	351.4	yes
28/ 00:00	0.84	9458	40.2	33.8	7.25	9.8	41.9	0.8	80.6	0.91	11548	60.1	54.7	7.66	9.00	51.5	1.1	106.2	1.87	186.8	yes
29/ 00:00	0.71	7743	48.0	34.1	7.28	10.7	39.3	0.9	86.6	0.90	7895	93.5	84.2	7.67	9.80	48.9	1.7	172.0	2.59	258.7	yes
30/ 00:00	0.61	10576	40.0	24.4	7.15	10.7	37.2	0.7	65.6	0.81	11763	63.0	51.0	7.61	9.80	47.4	1.1	107.7	1.73	173.3	yes
31/ 00:00																					