## 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: 3/2021

DAY	2 AM [NTU]	6 AM [NTU]	10 AM [NTU]	2 PM [NTU]	6 PM [NTU]	10 PM [NTU]	Highest Reading of the Day <sup>1</sup> [NTU]		
1	off	off	0.02	0.02	off	off	0.05		
2	off	off	0.02	0.02	off	off	0.05		
3	off	off	0.02	0.03	off	off	0.05		
4	off	off	0.03	0.02	off	off	0.04		
5	off	off	0.02	0.02	0.02	0.02	0.05		
6	off	off	off	0.02	0.02	off	0.06		
7	off	off	0.02	0.02	off	off	0.04		
8	off	off	0.02	0.02	off	off	0.04		
9	off	off	0.02	0.02	off	off	0.04		
10	off	off	0.02	0.02	off	off	0.04		
11	off	off	0.02	0.02	off	off	0.02		
12	off	off	0.02	0.02	0.02	0.02	0.02		
13	off	off	off	0.02	0.02	off	0.02		
14	off	0.02	0.02	off	off	off	0.02		
15	off	off	0.02	0.02	off	off	0.02		
16	off	off	0.02	0.02	off	off	0.02		
17	off	off	0.02	0.02	off	off	0.02		
18	off	off	0.02	0.02	off	off	0.02		
19	off	off	0.02	0.02	0.02	0.02	0.02		
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	off	off	0.02		
24	off	off	0.02	0.02	off	off	0.06		
25	off	off	0.02	0.02	off	off	0.03		
26	off	off	0.02	0.02	0.02	0.02	0.06		
27	off	off	off	0.02	0.02	off	0.04		
28	off	0.03	0.02	off	off	off	0.05		
29	off	off	0.02	0.02	off	off	0.06		
30	off	off	0.02	0.02	off	off	0.04		
31	off	off	0.03	0.02	off	off	0.04		

Conventional or Direct Filtration	Monthly Summary (Answer Yes or No)							
95% of the 4-hour turbidity readings ≤ 0.3 NTU? (Ye) / No All the 4-hour turbidity readings ≤ 1 NTU? (Ye) / No All turbidity readings < IFE² triggers? (Ye) / No²	CT's met everyday? (see back)	All Cl₂ residuals at entry point ≥ 0,2 mg/l?						
Notes:	PRINTED NAME: Rob Co	JMMi N95						
	SIGNATURE	DATE: 4-4-21						
	PHONE #: (503) 722-0	92.47 CERT#: 5017						

<sup>1</sup> Including continuous turbidity data, if applicable, for optimization recording purposes. Compliance values in columns "12 AM" through

<sup>&</sup>quot;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	<ul> <li>Surface Water</li> </ul>	Quality Data	Form
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System Name: Clackamas River Water-Clackamas ID#: 4100187

Month/Year: March 2021

WTP-: A

Disinfection
Giardia Log 1
Inactiv:

	Pre-Chlorination Segment							Post-Chlorination Segment										Total			
Date / Time	Minimum free chlorine residual after pre- chlorination ( C )	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)		Total percent of require log inactivation achieved	CT Met? 3
	[ppm or mg/L]	[GPM]	[minutes]	СХТ		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	CXT		[° C]	formula					Yes / No
1/ 10:00	0.80	10548	33.5	26.8	7.01	7.4	44.9	0.6	59.7	0.89	11437	66.5	59.2	7.66	6.60	60.4	1.0	98.0	1.58	157.7	yes
2/ 14:00	0.80	11243	37.1	29.7	7.13	8.2	44.4	0.7	66.8	0.87	11069	65.7	57.2	7.60	6.80	58.2	1.0	98.3	1.65	165.1	yes
3/ 11:00	0.72	11979	36.7	26.5	7.08	7.7	44.7	0.6	59.3	0.86	10819	62.3	53.6	7.60	6.80	58.1	0.9	92.2	1.51	151.5	yes
4/ 13:00	0.77	11548	37.0	28.5	7.11	8.2	44.0	0.6	64.8	0.88	11284	58.2	51.2	7.61	6.90	57.9	0.9	88.5	1.53	153.3	yes
5/ 09:00	0.91	9888	38.8	35.3	7.10	7.8	45.7	0.8	77.2	0.93	8861	76.0	70.7	7.59	7.30	56.4	1.3	125.3	2.03	202.5	yes
6/ 10:00	0.91	9458	39.7	36.1	7.09	7.8	45.5	0.8	79.3	0.96	10722	69.6	66.8	7.59	6.90	58.2	1.1	114.9	1.94	194.2	yes
7/ 12:00	0.86	8270	41.6	35.8	7.14	7.8	46.1	0.8	77.6	0.87	7631	92.0	80.0	7.61	6.90	58.0	1.4	138.1	2.16	215.7	yes
8/ 15:00	0.79	7979	42.1	33.3	7.19	8.3	45.0	0.7	73.9	0.87	10486	60.5	52.6	7.62	7.00	57.8	0.9	91.1	1.65	164.9	yes
9/ 12:00	0.70	8861	38.0	26.6	7.15	8.0	44.8	0.6	59.3	0.86	8736	78.8	67.8	7.61	6.90	57.9	1.2	117.0	1.76	176.4	yes
10/ 15:00	0.80	10958	35.2	28.2	7.20	8.6	44.4	0.6	63.5	0.85	11249	55.8	47.4	7.62	7.30	56.5	0.8	83.9	1.47	147.4	yes
11/ 13:00	0.75	8701	37.7	28.3	7.18	8.2	45.0	0.6	62.9	0.86	9062	76.7	66.0	7.62	6.80	58.5	1.1	112.7	1.76	175.6	yes
12/ 17:00	0.85	11805	36.4	30.9	7.32	9.8	43.0	0.7	72.0	0.85	11083	59.2	50.3	7.60	8.30	52.4	1.0	96.0	1.68	167.9	yes
13/ 15:00	0.84	8604	38.8	32.6	7.30	9.3	44.1	0.7	74.0	0.85	11347	64.9	55.2	7.62	7.60	55.4	1.0	99.6	1.74	173.6	yes
14/ 10:00	0.86	8708	43.1	37.1	7.11	7.9	45.3	0.8	81.8	0.88	7770	89.1	78.4	7.59	7.10	56.8	1.4	137.9	2.20	219.7	yes
15/ 13:00	0.80	8416	37.1	29.7	7.23	7.7	47.6	0.6	62.4	0.85	11409	57.8	49.1	7.63	6.60	59.5	0.8	82.6	1.45	145.0	yes
16/ 14:00	0.65	8777	42.9	27.9	7.22	7.8	46.3	0.6	60.2	0.85	9013	79.9	67.9	7.64	6.40	60.5	1.1	112.3	1.73	172.5	yes
17/ 15:00	0.66	9805	40.3	26.6	7.35	8.6	46.0	0.6	57.8	0.86	11152	59.0	50.7	7.62	7.10	57.3	0.9	88.5	1.46	146.3	yes
18/ 15:00	0.89	11597	32.4	28.8	7.37	8.7	47.3	0.6	61.0	0.85	13965	48.3	41.1	7.62	7.40	56.1	0.7	73.2	1.34	134.2	yes
19/ 11:00	0.81	11444	34.2	27.7	7.14	7.9	45.5	0.6	60.8	0.85	11548	58.7	49.9	7.60	6.90	57.6	0.9	86.6	1.47	147.4	yes
20/ 10:00	0.90	11381	32.2	29.0	7.12	8.2	44.8	0.6	64.7	0.90	13826	49.7	44.7	7.61	7.30	56.6	0.8	79.0	1.44	143.7	yes
21/07:00	0.86	8034	42.2	36.3	7.15	8.2	45.0	0.8	80.6	0.87	10451	67.7	58.9	7.57	7.90	53.4	1.1	110.3	1.91	190.8	yes
22/ 13:00	0.63	9124	33.6	21.2	7.18	8.5	43.5	0.5	48.7	0.86	9506	67.8	58.3	7.62	7.40	56.2	1.0	103,8	1.52	152.5	yes
23/ 15:00	0.66	8652	39.6	26.1	7.26	9.1	43.1	0.6	60.6	0.88	11743	58.4	51.4	7.63	7.60	55.8	0.9	92.2	1.53	152.8	yes
24/ 09:00	0.90	11062	32.7	29.4	7.12	8.2	44.8	0.7	65.7	0.90	11736	63.2	56.9	7.59	7.90	54.0	1.1	105.4	1.71	171.1	yes
25/ 13:00	0.82	11090	34.1	28.0	6.96	8.4	41.4	0.7	67.5	0.88	12041	56.0	49.3	7.63	7.40	56.5	0.9	87.2	2.01	154.7	yes
26/ 18:00	0.82	10937	34.6	28.4	7.13	9.7	40.4	0.7	70.3	0.87	9069	74.3	64.6	7.59	8.50	51.7	1.3	125.1	1.95	195.4	yes
27/ 18:00	0.78	9381	38.6	30.1	7.06	10.5	37.2	0.8	80.9	0.89	9874	68.0	60.5	7.56	8.70	50.6	1.2	119.7	2.01	200.6	yes
28/ 08:00	0.81	8805	41.2	33.4	6.87	8.9	38.8	0.9	86.0	0.93	7791	91.7	85.3	7.56	9.40	48.5	1.8	175.9	2.62	261.9	yes
29/11:00	0.82	9583	39.8	32.6	6.84	8.1	40.5	0.8	80.6	0.85	9333	79.3	67.4	7.55	7.40	54.6	1.2	123.4	2.04	204.0	yes
30/ 15:00	0.56	9881	39.5	22.1	7.03	9.4	38.6	0.6	57.3	0.87	10270	66.0	57.4	7.59	7.80	54.2	1.1	106.0	1.63	163.3	yes
31/12:00	0.67	10923	35.0	23.5	6.98	8.6	40.5	0.6	57.9	0.90	11763	53.3	48.0	7.58	7.20	56.4	0.9	85.1	1.43	143.0	yes Revised A

<sup>&</sup>lt;sup>3</sup> If CI2 at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.