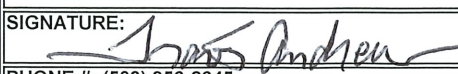


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: CLACKAMAS RIVER WATER - CLACKAMAS	ID #: 4100187	WTP: A	Month/Year: Jan-2024
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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	off	off	0.02
2	off	off	0.02	0.02	off	off	0.02
3	off	off	0.02	0.03	off	off	0.03
4	off	off	0.02	0.03	off	off	0.03
5	off	off	0.02	0.03	0.03	0.02	0.03
6	off	off	0.03	0.03	off	off	0.03
7	off	0.02	0.02	off	off	off	0.02
8	off	off	0.02	0.02	off	off	0.02
9	off	off	0.02	0.02	off	off	0.02
10	off	off	0.02	0.02	off	off	0.02
11	off	off	0.06	0.03	off	off	0.06
12	off	off	0.02	0.03	0.03	0.02	0.03
13	off	off	0.03	0.02	off	off	0.03
14	off	0.02	0.02	off	off	off	0.02
15	off	off	off	0.04	off	off	0.04
16	off	off	0.02	0.03	off	off	0.03
17	off	off	0.04	0.04	off	off	0.04
18	off	off	0.02	0.05	off	off	0.05
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	0.06	0.09	0.04	off	0.09
23	off	off	0.07	0.09	0.03	off	0.09
24	off	off	0.08	0.07	0.04	off	0.08
25	off	off	0.13	0.08	0.04	off	0.13
26	off	off	0.03	0.03	0.02	0.03	0.03
27	off	off	0.03	0.03	off	off	0.03
28	off	0.05	0.03	off	off	off	0.05
29	off	off	0.10	0.11	off	off	0.11
30	off	off	off	off	0.04	0.06	0.06
31	off	off	0.04	0.06	0.06	off	0.06

<p align="center">Conventional or Direct Filtration</p> <p>95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>All turbidity readings < IFE² triggers? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Notes: On 1/18/24, Filter #6 IFE NTU was >1.0 NTU from 11:40A to 12:06P, when its filter effluent valve did not close fully for backwash. Electro-mechanical issue was repaired.</p>	<p align="center">Monthly Summary (Answer Yes or No)</p> <p>CT's met everyday? (see back) <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>All Cl₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <hr/> <p>PRINTED NAME: Travis Andrews</p> <p>SIGNATURE: </p> <p>PHONE #: (503) 956-2645</p>
	<p>DATE: 1/8/24</p> <p>CERT #: T-450182</p>

¹Including 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. ²IFE = Individual Filter Effluent (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Program - Surface Water Quality Data Form

System Name: Clackamas River Water-Clackamas ID#: 4100187 WTP: A Disinfection *Giardia* Log Inactiv: 1

Jan-2024

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? ³ Yes / No		
	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/ 08:00	0.81	9534	38.5	31.2	7.24	9.0	43.9	0.7	71.1	1.18	10583	69.5	82.0	7.64	8.0	56.5	1.5	145.1	2.16	216.2	Yes	
2/ 10:00	0.87	9798	37.5	32.6	7.27	8.6	45.9	0.7	71.0	1.25	10666	69.0	86.3	7.57	7.8	56.4	1.5	153.0	2.24	224.0	Yes	
3/ 08:00	0.62	8368	41.4	25.7	7.27	8.7	44.3	0.6	58.0	1.14	9319	77.8	88.6	7.69	7.8	58.1	1.5	152.5	2.11	210.5	Yes	
4/ 08:00	0.98	12402	32.8	32.2	7.30	9.0	45.7	0.7	70.5	1.18	12659	58.5	69.0	7.71	8.8	57.7	1.2	119.6	1.90	190.0	Yes	
5/ 20:00	0.79	12284	32.5	25.7	7.32	8.9	45.4	0.6	56.6	1.23	12749	57.9	71.2	7.65	8.2	56.3	1.3	126.5	1.83	183.1	Yes	
6/ 17:00	0.71	5201	51.7	36.7	7.26	8.5	45.2	0.8	81.2	1.25	8048	92.7	115.9	7.72	7.6	60.2	1.9	192.5	2.74	273.7	Yes	
7/ 10:00	0.74	8541	41.9	31.0	7.18	8.4	44.4	0.7	69.8	1.23	8777	83.7	103.0	7.65	7.6	58.6	1.8	175.8	2.47	245.6	Yes	
8/ 12:00	0.85	9874	33.3	28.3	7.19	8.5	44.8	0.6	63.2	1.24	10708	69.7	86.4	7.66	7.7	58.6	1.5	147.4	2.11	210.6	Yes	
9/ 08:00	0.70	113111	32.1	22.5	7.17	8.8	42.9	0.5	52.4	1.27	13645	54.4	69.1	7.63	7.9	57.3	1.2	120.6	1.73	173.0	Yes	
10/ 08:00	0.58	13319	31.5	18.2	7.17	8.2	44.1	0.4	41.3	1.20	13618	55.1	66.1	7.74	7.2	62.1	1.1	106.4	1.48	147.7	Yes	
11/ 12:00	0.74	9277	41.3	30.6	7.09	8.1	43.8	0.7	69.9	1.22	10006	73.9	90.1	7.60	7.1	59.5	1.5	151.4	2.21	221.3	Yes	
12/ 18:00	0.82	12527	31.1	25.5	7.14	7.8	46.0	0.6	55.4	1.25	12590	58.4	73.0	7.69	6.8	62.5	1.2	116.8	1.72	172.2	Yes	
13/ 16:00	0.66	5201	59.2	39.0	7.04	5.7	50.2	0.8	77.7	1.25	5374	135.2	169.0	7.65	4.9	70.5	2.4	239.7	3.17	317.4	Yes	
14/ 07:00	0.69	7729	41.0	28.3	7.06	4.9	53.5	0.5	52.9	1.26	8638	83.7	105.5	7.71	3.8	78.0	1.4	135.3	1.88	188.2	Yes	
15/ 14:00	0.79	7868	32.2	25.4	7.10	4.3	57.1	0.4	44.5	1.32	9868	74.8	98.7	7.52	3.4	74.6	1.3	132.3	1.76	176.8	Yes	
16/ 08:00	0.61	8013	37.3	22.7	7.26	4.6	57.9	0.4	39.2	1.19	10229	72.7	86.5	7.66	3.2	78.8	1.1	109.8	1.49	149.0	Yes	
17/ 09:00	0.89	10409	32.7	29.1	7.25	4.2	61.3	0.5	47.5	1.27	13902	53.6	68.1	7.62	3.1	79.4	0.9	85.8	1.33	133.2	Yes	
18/ 10:00	0.99	11958	27.0	26.8	7.28	4.6	61.7	0.4	43.4	1.29	14124	53.0	65.2	7.43	3.5	71.2	0.9	91.6	1.35	135.0	Yes	
19/ 22:00	0.67	11715	30.5	20.4	7.05	7.1	45.6	0.4	44.7	1.29	11999	32.1	80.1	7.64	6.3	64.3	1.2	124.6	1.69	169.3	Yes	
20/ 18:00	0.80	12284	33.1	26.4	7.12	7.4	46.5	0.6	56.8	1.26	11625	60.2	75.9	7.65	6.4	63.4	1.2	119.7	1.77	176.5	Yes	
21/ 10:00	0.63	5111	55.0	34.7	7.12	7.5	45.4	0.8	76.4	1.25	4993	145.8	182.3	7.70	6.6	63.9	2.9	285.3	3.62	361.7	Yes	
22/ 20:00	0.82	9986	37.0	30.4	7.17	8.4	44.7	0.7	68.0	1.25	11673	62.9	78.6	7.67	7.6	59.2	1.3	132.8	2.01	200.8	Yes	
23/ 16:00	0.76	7118	45.1	34.3	7.09	8.8	41.9	0.8	81.9	1.26	8173	90.3	113.7	7.68	7.9	58.2	2.0	195.4	2.77	277.2	Yes	
24/ 11:00	0.74	10104	32.7	24.2	7.12	8.6	42.8	0.6	56.5	1.26	11618	64.3	81.0	7.65	7.6	58.8	1.4	137.8	1.94	194.3	Yes	
25/ 10:00	0.51	9569	34.4	17.5	7.21	9.1	41.6	0.4	42.1	1.18	9805	76.2	89.9	7.65	8.1	56.3	1.6	159.7	2.02	201.7	Yes	
26/ 22:00	0.59	7083	49.4	29.2	7.15	9.0	41.5	0.7	70.4	1.05	6277	115.8	121.6	7.66	8.1	55.6	2.2	218.7	2.89	289.1	Yes	
27/ 21:00	0.64	7013	47.1	30.1	6.90	9.4	37.2	0.8	80.9	1.04	7659	95.7	99.5	7.68	8.6	54.1	1.8	183.9	2.65	264.8	Yes	
28/ 09:00	0.56	7048	47.2	26.4	6.84	9.3	36.0	0.7	73.3	1.05	7687	94.8	99.6	7.65	8.5	53.8	1.9	185.1	2.55	258.5	Yes	
29/ 09:00	0.85	10180	36.0	30.6	7.03	9.3	40.0	0.8	76.5	1.09	12069	63.4	69.1	7.57	8.5	52.6	1.3	131.4	2.08	207.9	Yes	
30/ 17:00	0.68	12243	30.8	20.9	7.09	9.7	39.2	0.5	53.3	1.10	15874	48.6	53.5	7.76	8.6	56.0	1.0	95.5	1.49	148.9	Yes	
31/ 13:00	0.76	9909	36.2	27.5	7.14	9.6	40.6	0.7	67.7	1.06	11333	64.7	68.6	7.67	8.90	52.9	1.3	129.7	1.97	197.4	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.