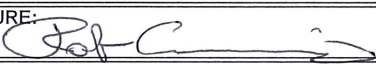


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **7/2021**

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	0.06
2	off	off	0.03	0.02	0.02	0.02	0.05
3	off	off	0.02	0.02	off	off	0.05
4	off	off	0.02	0.02	off	off	0.05
5	off	off	0.02	0.02	0.02	off	0.05
6	off	off	0.02	0.02	0.02	off	0.06
7	off	off	0.02	0.03	0.02	off	0.06
8	off	off	0.03	0.02	off	off	0.06
9	off	off	0.02	0.02	0.02	0.02	0.06
10	off	off	off	0.02	0.02	off	0.05
11	off	off	0.02	0.02	off	off	0.07
12	off	off	0.02	0.03	0.03	off	0.06
13	off	off	0.02	0.02	0.02	off	0.05
14	off	off	0.03	0.02	off	off	0.05
15	off	off	0.02	0.02	0.02	off	0.05
16	off	off	0.02	0.02	0.02	0.02	0.05
17	off	off	off	0.02	0.02	off	0.06
18	off	off	0.02	0.02	off	off	0.06
19	off	off	0.02	0.02	0.03	off	0.05
20	off	off	0.02	0.02	0.02	off	0.05
21	off	off	0.02	0.02	0.02	off	0.05
22	off	off	0.02	0.02	0.02	off	0.03
23	off	off	0.02	0.02	0.02	0.02	0.03
24	off	off	off	0.02	0.02	off	0.03
25	off	off	0.02	0.02	off	off	0.03
26	off	off	0.02	0.02	0.02	off	0.03
27	off	off	0.02	0.02	0.02	off	0.03
28	off	off	0.02	0.02	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	0.02	0.02	0.03
31	off	off	off	0.02	0.02	off	0.02

Conventional or Direct Filtration		Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No	All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes <input type="radio"/> No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes <input type="radio"/> No
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes <input type="radio"/> No		Notes:	
PRINTED NAME: Rob Cummings		SIGNATURE: 	
PHONE #: (503) 722-9247		DATE: 8/2/21	
		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 = 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: Jul-21

Disinfection
Giardia Log
Inactiv: 1

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	0.00	12513	29.7	0.0	7.50	21.6	20.0	0.0	0.0	0.70	15673	50.9	35.6	7.56	21.30	22.3	1.6	159.9	1.68	159.9	yes
2/ 14:00	0.00	11597	34.8	0.0	7.52	21.6	18.9	0.0	0.0	0.91	11979	55.0	50.1	7.62	20.40	24.5	2.0	204.5	2.11	204.5	yes
3/ 13:00	0.00	12722	37.1	0.0	7.49	21.4	19.0	0.0	0.0	0.91	14611	44.7	40.7	7.62	20.60	24.2	1.7	168.2	1.75	168.2	yes
4/ 09:00	0.00	10958	37.7	0.0	7.47	21.7	19.7	0.0	0.0	0.91	12208	51.1	46.5	7.60	21.40	22.9	2.0	203.0	2.03	203.0	yes
5/ 15:00	0.00	12291	32.3	0.0	7.56	22.6	19.3	0.0	0.0	0.89	12180	57.6	51.3	7.60	21.30	23.0	2.2	223.0	2.23	223.0	yes
6/ 12:00	0.00	12659	37.9	0.0	7.30	21.6	18.8	0.0	0.0	0.91	12340	59.7	54.3	7.61	20.80	23.8	2.3	228.1	2.28	228.1	yes
7/ 12:00	0.00	10736	31.9	0.0	7.33	21.3	19.3	0.0	0.0	0.91	12298	57.9	52.7	7.62	20.70	24.0	2.2	219.2	2.19	219.2	yes
8/ 10:00	0.00	12798	30.5	0.0	7.35	20.5	20.4	0.0	0.0	0.93	14916	47.0	43.7	7.61	20.00	25.0	1.7	174.5	1.75	174.5	yes
9/ 17:00	0.00	12555	34.1	0.0	7.47	23.3	18.0	0.0	0.0	0.90	13111	50.5	45.5	7.59	21.70	22.4	2.0	202.9	2.03	202.9	yes
10/ 13:00	0.00	8173	42.0	0.0	7.36	22.3	18.4	0.0	0.0	0.93	15097	47.7	44.4	7.61	21.20	23.3	1.9	190.4	1.90	190.4	yes
11/ 09:00	0.00	12291	33.9	0.0	7.26	21.4	18.8	0.0	0.0	0.93	13999	46.8	43.5	7.60	21.00	23.5	1.9	185.2	1.85	185.2	yes
12/ 13:00	0.00	13034	29.5	0.0	7.61	21.8	20.5	0.0	0.0	0.91	14083	51.0	46.4	7.62	20.60	24.2	1.9	191.9	1.92	191.9	yes
13/ 15:00	0.00	13472	30.5	0.0	7.35	22.4	18.3	0.0	0.0	0.88	14520	54.2	47.7	7.61	20.90	23.6	2.0	202.1	2.02	202.1	yes
14/ 15:00	0.00	14569	28.5	0.0	7.33	22.0	18.6	0.0	0.0	0.92	15326	48.8	44.9	7.63	20.60	24.3	1.8	184.9	1.85	184.9	yes
15/ 19:00	0.00	12583	28.5	0.0	7.46	23.9	17.4	0.0	0.0	0.91	14513	48.2	43.9	7.57	22.60	21.1	2.1	207.5	2.07	207.5	yes
16/ 15:00	0.00	12263	38.2	0.0	7.38	22.9	17.9	0.0	0.0	0.93	11916	56.2	52.3	7.60	21.20	23.2	2.3	225.0	2.25	225.0	yes
17/14:00	0.00	13444	29.3	0.0	7.35	22.5	18.2	0.0	0.0	0.92	14534	50.2	46.2	7.62	21.00	23.6	2.0	195.4	1.95	195.4	yes
18/ 08:00	0.00	10847	32.3	0.0	7.19	22.9	17.0	0.0	0.0	0.92	12249	61.1	56.2	7.59	21.40	22.9	2.5	246.0	2.46	246.0	yes
19/ 14:00	0.00	13631	30.3	0.0	7.36	22.5	18.2	0.0	0.0	0.91	14895	52.9	48.1	7.61	21.10	23.4	2.1	205.8	2.06	205.8	yes
20/ 17:00	0.61	12111	32.0	19.5	7.29	23.0	18.4	1.1	106.0	0.95	14354	49.0	46.6	7.61	21.40	23.1	2.0	201.8	3.08	307.8	yes
21/ 20:00	0.62	11895	29.3	18.2	7.51	22.3	20.5	0.9	88.6	0.93	15145	45.2	42.0	7.61	21.10	23.4	1.8	179.3	2.68	267.9	yes
22/ 20:00	0.59	10999	32.2	19.0	7.46	23.3	19.0	1.0	99.9	0.92	13173	55.0	50.6	7.59	22.00	22.1	2.3	229.4	3.29	329.3	yes
23/ 20:00	0.66	11006	31.9	21.1	7.45	23.6	18.8	1.1	112.2	0.92	11930	52.8	48.6	7.60	22.40	21.6	2.2	224.8	3.37	336.9	yes
24/ 18:00	0.97	12437	31.9	30.9	7.49	24.0	19.1	1.6	161.7	0.93	14083	50.1	46.6	7.60	22.60	21.4	2.2	217.9	3.80	379.6	yes
25/ 08:00	0.87	15236	26.4	23.0	7.28	22.6	19.3	1.2	119.2	0.93	13340	49.5	46.0	7.58	22.00	22.0	2.1	209.2	2.01	328.4	yes
26/ 19:00	0.78	13611	30.0	23.4	7.47	24.2	17.0	1.4	137.6	0.92	14999	44.3	40.8	7.60	23.00	20.9	2.0	195.3	3.33	333.0	yes
27/ 20:00	0.81	13097	28.0	22.7	7.54	23.9	19.2	1.2	117.9	0.93	14937	48.8	45.4	7.59	22.90	20.9	2.2	216.7	3.35	334.6	yes
28/ 15:00	0.53	12048	27.2	14.4	7.40	23.2	18.7	0.8	77.2	0.96	14694	46.9	45.0	7.62	21.60	22.9	2.0	196.7	2.74	273.9	yes
29/ 19:00	0.73	11069	30.6	22.3	7.44	24.7	17.7	1.3	126.1	0.94	12284	56.0	52.6	7.59	23.50	20.2	2.6	260.0	3.86	386.1	yes
30/ 19:00	0.81	11534	32.1	26.0	7.49	22.9	20.1	1.3	129.6	0.94	11916	57.3	53.9	7.62	21.70	22.7	2.4	237.2	3.67	366.7	yes
31/ 14:00	0.80	11597	32.5	26.0	7.35	22.4	19.8	1.3	131.5	0.95	12236	51.9	49.3	7.64	21.20	23.6	2.1	209.2	3.41	340.7	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.