

OHA - Drinking Water Services - Surface Water Quality Data Form

County: Clackamas

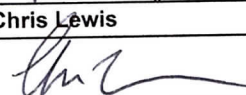
Filtration with Disinfection: UV for *Giardia/Crypto.* & Chlorination for Viruses

Month/Year: 24-Jul

System Name: Estacada

WS ID#: 41- 00279 WTP ID: A

Day	Turbidity							Viral CT's						
	12 AM [NTU]	4 AM [NTU]	8 AM [NTU]	NOON [NTU]	4 PM [NTU]	8 PM [NTU]	Highest NTU of the day ¹	Minimum Cl ₂ Residual at 1 st User (C) [mg/L] ²	Contact Time (T) [minutes]	Actual CT C X T	Temp	Required CT [from table next page]	Peak Hour Demand Flow [gpm]	Required CT Met? ² [Yes / No]
1	0.03		0.04	0.04	0.03	0.03	0.1	0.66	29	19.14	16.8	4	1300	YES
2	0.04		0.03	0.03	0.03	0.03	0.09	0.68	29	19.72	16.8	4	1300	YES
3	0.03		0.03	0.03	0.03	0.03	0.08	0.64	29	18.56	16.7	4	1300	YES
4	0.03		0.03	0.03	0.03	0.03	0.08	0.56	29	16.24	16.9	4	1300	YES
5	0.03	0.04	0.04	0.03		0.08	0.22	0.66	29	19.14	17.1	4	1300	YES
6	0.04		0.03	0.04	0.03	0.05	0.25	0.57	29	16.53	17.7	4	1300	YES
7	0.11		0.03	0.03	0.03	0.04	0.16	0.65	29	18.85	18.0	4	1300	YES
8	0.03		0.04	0.03	0.03		0.07	0.65	20	13	18.6	4	1800	YES
9	0.04	0.05	0.04	0.04	0.04	0.04	0.25	0.67	20	13.4	19.2	4	1800	YES
10	0.04	0.04	0.04	0.04	0.04	0.05	0.13	0.69	20	13.8	19.0	4	1800	YES
11	0.05	0.05	0.04	0.04	0.05	0.05	0.09	0.69	20	13.8	18.8	4	1800	YES
12	0.05		0.05	0.06	0.06	0.06	0.11	0.68	20	13.6	19.1	4	1800	YES
13		0.07	0.06	0.06	0.07	0.08	0.15	0.65	20	13	20.2	3	1800	YES
14		0.08	0.07		0.08	0.09	0.11	0.60	20	12	20.7	3	1800	YES
15		0.09	0.05	0.05	0.05	0.05	0.09	0.63	20	12.6	19.7	4	1800	YES
16	0.07		0.05	0.05	0.06	0.07	0.11	0.62	20	12.4	19.8	4	1800	YES
17	0.06	0.06	0.06	0.07	0.05	0.05	0.11	0.60	20	12	19.6	4	1800	YES
18	0.05	0.06	0.06			0.06	0.09	0.73	20	14.6	19.9	4	1800	YES
19	0.06		0.06	0.07	0.07	0.07	0.11	0.69	20	13.8	19.8	4	1800	YES
20	0.07		0.07	0.07	0.07	0.07	0.11	0.65	20	13	19.9	3	1800	YES
21	0.07	0.07	0.07	0.07		0.07	0.13	0.63	20	12.6	20.1	4	1800	YES
22	0.07	0.08	0.03	0.03		0.03	0.14	0.60	20	12	19.6	4	1800	YES
23	0.03	0.03	0.03	0.03	0.03	0.03	0.08	0.66	20	13.2	19.5	4	1800	YES
24	0.03		0.04	0.03	0.03	0.03	0.10	0.64	20	12.8	19.4	4	1800	YES
25	0.03	0.03	0.03	0.04		0.03	0.09	0.63	20	12.6	19.5	4	1800	YES
26	0.03		0.03	0.04		0.03	0.11	0.67	20	13.4	19.7	4	1800	YES
27	0.03		0.03	0.03		0.04	0.10	0.63	20	12.6	19.3	4	1800	YES
28	0.04	0.04	0.04	0.03	0.03	0.04	0.09	0.62	20	12.4	19.2	4	1800	YES
29	0.04		0.04	0.03		0.04	0.10	0.62	20	12.4	18.7	4	1800	YES
30	0.04		0.03	0.03	0.03	0.05	0.09	0.60	20	12	18.4	4	1800	YES
31	0.03		0.04	0.03	0.03		0.08	0.68	20	13.6	18.3	4	1800	YES

Conventional or Direct Filtration 95% of 4-hr turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No All 4-hour turbidity readings < 1 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No All turbidity readings < IFE triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No ³		Monthly Summary (circle Yes or No) Virus CT's met everyday? <input checked="" type="radio"/> Yes / <input type="radio"/> No All Cl ₂ residual at entry point ≥ 0.2 mg/L? <input checked="" type="radio"/> Yes / <input type="radio"/> No	
Monthly UV Summary (circle Yes or No) Was the volume of off-spec water produced less than 5% for the month? <input checked="" type="radio"/> Yes / <input type="radio"/> No		503-572-6262 DATE: 8-7-24 PRINTED NAME: Chris Lewis SIGNATURE: 	CERT #: T-6933

¹ If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only. Highest NTU of the day is for optimization, not compliance. Highest is only for state-wide tracking of performance among all treatment systems.

² If CT not met or Cl₂ at entry point (1st user) < 0.2 mg/L, notify DWS within 24 hours.

³ IFE= Individual Filter Effluent (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Services - Surface Water Quality Data Form	County:	Clackamas
Conventional Filtration with UV Disinfection of <i>Giardia/Crypto</i>.	Month/Year:	24-Jul
System Name: <u>Estacada</u>	ID# 41- <u>00279</u>	WTP ID: <u>A</u>

Minimum UVT during month: 82.8 % Duty sensor variation from reference sensor %: 1.1
 Minimum Validated UVT: 69% Min. UV Dose achieved/intended this month: 3.47 / 2.1 ^{mJ/cm²}

Date	Peak Hourly Demand Flow	Minimum Dosage	All Lamps On?	Daily Water Produced {A}	Water outside Validated Conditions {B}	Cumulative % Off-Spec Water Produced
	[gpm/unit]	[mJ/cm ²]	[Y or N]	[gal]	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	650	4.98	Y	1,249,000	0	
2	650	4.95	Y	1,282,000	0	
3	650	4.89	Y	1,592,000	0	
4	650	4.67	Y	1,141,000	0	
5	650	4.22	Y	1,299,000	0	
6	650	4.7	Y	1,524,000	0	
7	650	4.85	Y	1,388,000	0	
8	900	4.3	Y	1,383,000	0	
9	900	4.26	Y	1,318,000	427	
10	900	4.82	Y	1,689,000	0	
11	900	4.71	Y	1,430,000	0	
12	900	4.71	Y	1,403,000	0	
13	900	4.71	Y	1,331,000	0	
14	900	4.51	Y	1,227,000	0	
15	900	4.67	Y	1,385,000	0	
16	900	4.47	Y	1,531,000	0	
17	900	4.75	Y	1,439,000	0	
18	900	4.25	Y	1,349,000	0	
19	900	4.72	Y	1,412,000	0	
20	900	4.71	Y	1,500,000	0	
21	900	4.71	Y	1,214,000	0	
22	900	4.71	Y	1,394,000	0	
23	900	4.66	Y	1,287,000	0	
24	900	4.71	Y	1,387,000	0	
25	900	4.71	Y	1,279,000	0	
26	900	4.55	Y	1,341,000	0	
27	900	4.71	Y	1,340,000	0	
28	900	4.71	Y	1,252,000	0	
29	900	4.71	Y	1,085,000	0	
30	900	3.47	Y	1,185,000	483	
31	900	4.71	Y	1,251,000	0	
Monthly Cumulative % Off-Spec Water Produced ⁴						0.002172512
				41887000	910	

⁴ If ≥ 5% of total water produced is off-spec., notify DWS within 24 hours.

For previous page calculation - Required CT for viral inactivation (for pH range of 6.0 to 9.9)						
Temp (C°)	0 - 4.9	5.0 - 9.9	10.0 - 14.9	15.0 - 19.9	20 - 24.9	≥ 25.0 C
Required CT	12	8	6	4	3	2

Return by 10th of following month by email, fax or mail to:
 dwp.dmce@dhsosha.state.or.us; 971-673-0694; or Drinking Water Services, POB 14350, Portland, OR 97293-0350