

OHA - Drinking Water Services - Surface Water Quality Data Form

County:

Clackamas

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

Month/Year:

25-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	0.04	0.04	0.03		0.03		0.1	0.58	29	16.82	17.9	4	1300	YES
2	0.03		0.03	0.04		0.04	0.09	0.56	29	16.24	18.0	4	1300	YES
3	0.04	0.04	0.04		0.04	0.04	0.10	0.58	29	16.82	17.9	4	1300	YES
4	0.04	0.05	0.04	0.04		0.04	0.10	0.64	29	18.56	18.5	4	1300	YES
5			0.04		0.04	0.04	0.11	0.58	29	16.82	18.4	4	1300	YES
6	0.04	0.04	0.04	0.05	0.04	0.04	0.11	0.49	29	14.21	18.6	4	1300	YES
7	0.04		0.04	0.04		0.04	0.10	0.55	29	15.95	18.7	4	1300	YES
8	0.04		0.04	0.04	0.04	0.04	0.09	0.54	29	15.66	18.7	4	1300	YES
9	0.04		0.04	0.04	0.04	0.04	0.09	0.67	29	19.43	19.2	4	1300	YES
10	0.04		0.04	0.04		0.04	0.10	0.64	29	18.56	19.1	4	1300	YES
11	0.04	0.04	0.04	0.04	0.04	0.04	0.07	0.59	29	17.11	19.2	4	1300	YES
12	0.04		0.04	0.04	0.07	0.04	0.07	0.50	29	14.5	19.4	4	1300	YES
13		0.04	0.04	0.04	0.04	0.05	0.10	0.44	29	12.76	19.2	4	1300	YES
14	0.04		0.04	0.04	0.04	0.04	0.08	0.43	29	12.47	20.1	3	1300	YES
15	0.04		0.04	0.04	0.04	0.04	0.11	0.51	29	14.79	20.1	3	1300	YES
16	0.05		0.04	0.04	0.04	0.05	0.10	0.52	20	10.4	20.2	3	1800	YES
17	0.05		0.04	0.04		0.05	0.12	0.58	20	11.6	20.2	3	1800	YES
18	0.05		0.04	0.04		0.05	0.10	0.60	20	12	20.1	3	1800	YES
19	0.05	0.05	0.05	0.05	0.05	0.06	0.14	0.65	20	13	20.0	3	1800	YES
20	0.05		0.06	0.05		0.06	0.14	0.62	20	12.4	19.8	4	1800	YES
21		0.06	0.04		0.05	0.05	0.16	0.60	20	12	19.4	4	1800	YES
22	0.05	0.05	0.05	0.04	0.04	0.05	0.14	0.62	20	12.4	20.2	3	1800	YES
23	0.05	0.05	0.05	0.04	0.05	0.06	0.14	0.47	20	9.4	20.2	3	1800	YES
24	0.05	0.05	0.05	0.04		0.05	0.14	0.56	20	11.2	19.8	4	1800	YES
25	0.05		0.05	0.05	0.05	0.06	0.17	0.56	20	11.2	19.8	4	1800	YES
26	0.05	0.06	0.05		0.05	0.06	0.17	0.48	20	9.6	19.9	4	1800	YES
27	0.05	0.05	0.05	0.05	0.05	0.06	0.12	0.56	20	11.2	19.7	4	1800	YES
28			0.05	0.04	0.05	0.05	0.11	0.57	20	11.4	19.5	4	1800	YES
29	0.05	0.06	0.05	0.05	0.05	0.06	0.13	0.53	20	10.6	19.6	4	1800	YES
30	0.06	0.05	0.06	0.05	0.05	0.06	0.14	0.69	20	13.8	19.8	4	1800	YES
31	0.06		0.06		0.06	0.06	0.16	0.69	20	13.8	19.4	4	1800	YES

Conventional or Direct Filtration

95% of 4-hr turbidity readings ≤ 0.3 NTU?
All 4-hour turbidity readings < 1 NTU?
All turbidity readings < IFE triggers?

Yes No
Yes No
Yes/ No³

Monthly Summary (circle Yes or No)

Virus CT's met everyday?
Yes/ No

All Cl₂ residual at entry point ≥ 0.2 mg/L?
Yes/ No

Monthly UV Summary (circle Yes or No)

Was the volume of off-spec water produced less than 5% for the month?

Yes No

503-572-6262

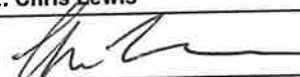
CERT #:

T-6933

DATE: 8-7-25

PRINTED NAME: Chris Lewis

SIGNATURE:



¹ If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only.
² Highest NTU of the day is for optimization, not compliance. Highest is only for state-wide tracking of performance among all treatment systems.
³ If CT not met or Cl₂ at entry point (1st user) < 0.2 mg/L, notify DWS within 24 hours.

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: 25-Jul
System Name: Estacada	ID# 41- 00279	WTP ID: A

Minimum UVT during month: 91.9 % Duty sensor variation from reference sensor %: 1.2
 Minimum Validated UVT: 69% Min. UV Dose achieved/intended this month: 4.71 / 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] MGD	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	700	4.71	Y	1.273	0	
2	700	4.81	Y	1.318	0	
3	700	4.86	Y	1.099	0	
4	700	4.84	Y	1.307	0	
5	700	4.76	Y	1.134	0	
6	700	4.73	Y	1.061	0	
7	700	4.76	Y	1.32	0	
8	700	4.84	Y	1.426	0	
9	700	4.95	Y	1.277	0	
10	700	4.93	Y	1.331	0	
11	700	4.77	Y	1.298	0	
12	700	4.71	Y	1.22	0	
13	700	4.8	Y	1.293	0	
14	700	4.85	Y	1.43	0	
15	700	4.95	Y	1.381	0	
16	700	4.83	Y	1.497	0	
17	700	4.94	Y	1.356	0	
18	700	4.78	Y	1.384	0	
19	700	4.84	Y	1.301	0	
20	700	4.9	Y	1.249	0	
21	700	4.96	Y	1.314	0	
22	700	4.58	Y	1.436	0	
23	700	4.94	Y	1.206	0	
24	700	4.96	Y	1.424	0	
25	700	4.88	Y	1.293	0	
26	700	5.02	Y	0.973	0	
27	700	4.99	Y	1.222	0	
28	700	4.98	Y	1.324	0	
29	700	4.87	Y	1.32	0	
30	700	4.77	Y	1.241	0	
31	700	4.98	Y	1.243	0	
Monthly Cumulative % Off-Spec Water Produced ⁴						0

39.951 0

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