

Membrane Filter Monthly Operating Report

County: **Columbia**

System Name: **St. Helens**

Month/Year: **Aug-2024**

PWS ID#: 41 - **00724**

Minimum test pressure applied: **30** psi

Plant ID: WTP - **A**

Minimum test pressure req'd: **18.34** psi

DIT = Direct Integrity Test on filter(s) [Yes, No, or "off" if all filters are offline] ⇔

PDR = Pressure Decay Rate

LRC = Log Removal Credit

PDR_{Max} [^{psi}/min]

LRC [log removal]

0.074


4.00

DIT
Daily

Day	CFE Daily Turbidity [NTU]	Highest CFE* [NTU]	Highest IFE [NTU]	Highest PDR of day [^{psi} /min]	Lowest LRV _{ambient} of day [log removal]	[Y/N] or "off"
1	0.021	0.03	0.048	0.03	4.76	Y
2	0.021	0.03	0.071	0.04	4.65	Y
3	0.020	0.02	0.044	0.04	4.66	Y
4	0.021	0.03	0.045	0.04	4.65	Y
5	0.020	0.02	0.043	0.04	4.65	Y
6	0.030	0.03	0.040	0.03	4.76	Y
7	0.020	0.02	0.059	0.04	4.64	Y
8	0.032	0.03	0.045	0.04	4.64	Y
9	0.024	0.03	0.044	0.03	4.76	Y
10	0.027	0.03	0.046	0.03	4.68	Y
11	0.025	0.02	0.050	0.04	4.64	Y
12	0.030	0.03	0.046	0.04	4.65	Y
13	0.030	0.03	0.041	0.04	4.64	Y
14	0.020	0.03	0.078	0.04	4.65	Y
15	0.020	0.02	0.039	0.04	4.63	Y
16	0.020	0.03	0.049	0.04	4.65	Y
17	0.021	0.03	0.040	0.04	4.65	Y
18	0.020	0.02	0.043	0.03	4.76	Y
19	0.031	0.03	0.044	0.04	4.65	Y
20	0.020	0.03	0.042	0.04	4.67	Y
21	0.031	0.03	0.066	0.03	4.76	Y
22	0.022	0.02	0.042	0.04	4.63	Y
23	0.020	0.03	0.064	0.04	4.65	Y
24	0.029	0.03	0.036	0.02		Y
25	0.021	0.03	0.037	0.02	4.90	Y
26	0.021	0.03	0.034	0.03	4.77	Y
27	0.020	0.03	0.031	0.03	4.71	Y
28	0.032	0.03	0.039	0.04	4.66	Y
29	0.021	0.02	0.100	0.04	4.65	Y
30	0.035	0.04	0.062	0.04	4.65	Y
31	0.021	0.02	0.048	0.04	4.65	Y

Compliance summary (operator to complete any blank fields)

95% of daily turbidity readings ≤ 1 NTU? [Y/N]	All turbidity readings ≤ 5 NTU? [Y/N]	All IFE turbidity readings ≤ 0.15 NTU? [Y/N]	Performance std met? [Y/N] (PDR ≤ PDR _{Max} , LRV ≥ LRC)	DIT Daily?
Yes	Yes	Yes	Yes	Yes
CT's met daily? (p. 2)	All Cl ₂ residual at EP ≥ 0.2 mg/L?	PDR ≤ PDR _{Max} ?	LRV _{ambient} ≥ LRC?	
		Yes	Yes	

PRINTED NAME: **Aaron Kunders** : September 9, 2024
 SIGNATURE:  WT CERT #: 684854
 Notes: The LRV was not recorded on the 24th due to SCADA issues. All tests were completed and passed but the SCADA froze and didn't calculate LRV. PHONE #: 503-397-2344

* Used for optimization purposes only.

OHA - Drinking Water Program - Surface Water Quality Data Form

St Helens Oregon

PWS#4100724 WFP - A

Month:

August

Year:

2024

DAY	DATE	Time of Peak Flow	Minimum Chlorine Residual (mg/L) C [AIT-4705]	Contact Time T (min)	Actual Minimum C X T	Temp. (Deg. C) [TIT-4008]	pH [AIT-4713]	Required CT from tables (0.5-log)	CT Met? Yes/No	Peak Hourly Demand Flow (GPM)
1	08/01/24	20:59	0.61	84	51.1	13.7	7.4	21	Yes	2773
2	08/02/24	7:59	0.61	86	52.6	13.7	7.5	26	Yes	2721
3	08/03/24	14:59	0.60	85	51.5	13.7	7.5	26	Yes	2744
4	08/04/24	8:59	0.60	84	50.2	13.8	7.5	26	Yes	2774
5	08/05/24	22:59	0.59	86	51.3	13.8	7.5	26	Yes	2708
6	08/06/24	7:59	0.58	86	50.1	13.8	7.5	26	Yes	2715
7	08/07/24	22:59	0.59	87	51.4	13.8	7.5	26	Yes	2702
8	08/08/24	7:59	0.58	83	48.7	13.8	7.5	26	Yes	2803
9	08/09/24	7:59	0.58	86	49.5	13.8	7.5	26	Yes	2720
10	08/10/24	21:59	0.59	86	50.5	13.8	7.5	26	Yes	2723
11	08/11/24	19:59	0.61	86	52.2	13.8	7.5	26	Yes	2720
12	08/12/24	5:59	0.64	85	54.9	13.8	7.4	22	Yes	2742
13	08/13/24	8:59	0.65	84	54.6	13.8	7.5	26	Yes	2773
14	08/14/24	22:59	0.71	87	61.7	13.8	7.6	26	Yes	2702
15	08/15/24	18:59	0.62	86	52.9	13.9	7.6	26	Yes	2726
16	08/16/24	21:59	0.60	85	51.0	13.9	7.5	26	Yes	2745
17	08/17/24	7:59	0.60	86	51.6	13.9	7.5	26	Yes	2717
18	08/18/24	21:59	0.58	84	48.7	14.0	7.5	26	Yes	2792
19	08/19/24	15:59	0.58	86	50.0	14.0	7.5	26	Yes	2722
20	08/20/24	9:59	0.62	85	52.6	14.0	7.5	26	Yes	2748
21	08/21/24	22:59	0.68	85	57.7	14.0	7.5	26	Yes	2762
22	08/22/24	17:59	0.66	86	56.5	14.0	7.5	26	Yes	2714
23	08/23/24	12:59	0.67	86	58.0	14.0	7.5	26	Yes	2717
24	08/24/24	22:59	0.67	85	57.4	14.1	7.4	22	Yes	2735
25	08/25/24	0:59	0.49	86	42.5	14.0	7.4	21	Yes	2704
26	08/26/24	11:59	0.71	86	61.0	14.0	7.6	26	Yes	2723
27	08/27/24	9:59	0.80	86	69.2	14.1	7.6	26	Yes	2720
28	08/28/24	18:59	0.80	83	66.8	14.0	7.5	26	Yes	2811
29	08/29/24	12:59	0.80	86	68.7	14.1	7.5	26	Yes	2729
30	08/30/24	16:59	0.80	85	67.7	14.1	7.5	26	Yes	2746
31	08/31/24	0:59	0.79	86	67.7	14.1	7.5	26	Yes	2726

Notes:

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Clearwell Baffling Factor = 0.541

Min Clearwell Level = 432206 gallons 1

1 25.2' Pause level multiplied by 17155 gal/foot