

Membrane Filter Monthly Operating Report

County: **Columbia**

System Name: **St. Helens**

Month/Year: **Sep-2024**

PWS ID#: 41 - **00724**

Minimum test pressure applied: **30** psi

Plant ID: WTP - **A**
(e.g., "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]

0.074

LRC [log removal]

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	0.020	0.04	0.102	0.03	4.77	Y
2	0.031	0.03	0.042	0.03	4.76	Y
3	0.032	0.03	0.060	0.03	4.78	Y
4	0.035	0.04	0.037	0.04	4.66	Y
5	0.021	0.03	0.042	0.04	4.66	Y
6	0.021	0.02	0.045	0.03	4.77	Y
7	0.018	0.47	0.071	0.04	4.63	Y
8	0.021	0.03	0.040	0.04	4.65	Y
9	0.021	0.04	0.078	0.04	4.63	Y
10	0.018	0.02	0.040	0.04	4.65	Y
11	0.018	0.02	0.070	0.03	4.71	Y
12	0.018	0.02	0.038	0.03	4.66	Y
13	0.020	0.02	0.064	0.03	4.78	Y
14	0.020	0.02	0.061	0.03	4.78	Y
15	0.020	0.02	0.054	0.04	4.57	Y
16	0.020	0.02	0.041	0.04	4.66	Y
17	0.021	0.03	0.057	0.04	4.65	Y
18	0.018	0.03	0.039	0.04	4.63	Y
19	0.019	0.02	0.048	0.04	4.65	Y
20	0.020	0.02	0.046	0.04	4.65	Y
21	0.018	0.02	0.065	0.05	4.53	Y
22	0.021	0.02	0.043	0.05	4.55	Y
23	0.020	0.02	0.038	0.03	4.73	Y
24	0.019	0.02	0.053	0.04	4.64	Y
25	0.018	0.02	0.052	0.04	4.65	Y
26	0.019	0.02	0.075	0.04	4.58	Y
27	0.021	0.02	0.038	0.04	4.63	Y
28	0.019	0.02	0.050	0.04	4.64	Y
29	0.018	0.02	0.057	0.04	4.65	Y
30	0.020	0.02	0.035	0.04	4.66	Y
31						

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**

DATE: **10/7/24**

SIGNATURE: 

WT CERT #: 684854

Notes: CFE for 9/7 was directly after plant start up

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:

September

Year:

2024

DAY	DATE	Time of Peak Flow	Minimum Chlorine Residual (mg/L) C [AIT-4705]	Contact Time T (min)	Actual Minimum CXT	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	09/01/24	15:59	0.78	86	67.2	14.1	7.5	22	Yes	2708
2	09/02/24	11:59	0.78	86	67.4	14.1	7.4	18	Yes	2712
3	09/03/24	23:59	0.77	86	65.9	14.1	7.5	22	Yes	2728
4	09/04/24	19:59	0.78	86	66.8	14.1	7.7	22	Yes	2717
5	09/05/24	17:59	0.78	87	67.1	14.2	7.4	18	Yes	2703
6	09/06/24	18:59	0.77	85	66.1	14.2	7.4	18	Yes	2735
7	09/07/24	23:59	0.76	84	64.3	14.2	7.6	22	Yes	2768
8	09/08/24	17:59	0.75	85	64.2	14.2	7.4	18	Yes	2735
9	09/09/24	21:59	0.76	86	64.8	14.2	7.5	22	Yes	2732
10	09/10/24	17:59	0.74	86	64.3	14.2	7.4	18	Yes	2711
11	09/11/24	21:59	0.75	87	64.8	14.2	8.1	27	Yes	2695
12	09/12/24	8:59	0.73	85	61.6	14.2	7.9	22	Yes	2763
13	09/13/24	5:59	0.73	87	63.2	14.2	7.6	22	Yes	2701
14	09/14/24	19:59	0.73	86	63.3	14.2	7.7	22	Yes	2715
15	09/15/24	6:59	0.74	86	63.7	14.3	7.7	22	Yes	2724
16	09/16/24	9:59	0.74	84	62.5	14.2	7.6	22	Yes	2774
17	09/17/24	12:59	0.75	84	63.0	14.3	7.6	22	Yes	2792
18	09/18/24	7:59	0.74	85	62.4	14.3	7.6	22	Yes	2756
19	09/19/24	13:59	0.72	84	61.1	14.3	7.6	22	Yes	2767
20	09/20/24	17:59	0.73	84	61.4	14.2	7.6	22	Yes	2769
21	09/21/24	15:59	0.73	86	62.7	14.3	7.4	18	Yes	2706
22	09/22/24	10:59	0.72	86	61.8	14.2	7.5	22	Yes	2715
23	09/23/24	8:59	0.72	86	61.8	14.3	7.6	22	Yes	2707
24	09/24/24	21:59	0.71	86	61.3	14.3	7.6	22	Yes	2717
25	09/25/24	17:59	0.70	87	60.7	14.4	7.5	22	Yes	2695
26	09/26/24	11:59	0.71	86	61.1	14.3	7.5	22	Yes	2717
27	09/27/24	6:59	0.85	85	72.4	14.3	7.5	22	Yes	2754
28	09/28/24	5:59	0.86	86	74.4	14.3	7.5	22	Yes	2713
29	09/29/24	0:59	0.85	85	72.2	14.2	7.5	22	Yes	2754
30	09/30/24	17:59	0.85	87	73.3	14.3	7.5	22	Yes	2696

Notes:

Clearwell Baffling Factor = 0.541

Min Clearwell Level = 432206 gallons 1

1 25.2' Pause level multiplied by 17155 gal/foot