

Membrane Filter Monthly Operating Report

County: **Columbia**

System Name: **St. Helens**

Month/Year: **Oct-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	0.019	0.02	0.043	0.04	4.64	Y
2	0.019	0.02	0.049	0.04	4.64	Y
3	0.020	0.02	0.055	0.04	4.78	Y
4	0.020	0.03	0.055	0.04	4.62	Y
5	0.021	0.02	0.057	0.04	4.67	Y
6	0.021	0.02	0.045	0.04	4.66	Y
7	0.019	0.02	0.046	0.04	4.63	Y
8	0.021	0.02	0.053	0.04	4.66	Y
9	0.022	0.02	0.057	0.04	4.62	Y
10	0.019	0.02	0.065	0.04	4.62	Y
11	0.019	0.02	0.065	0.05	4.54	Y
12	0.019	0.02	0.078	0.06	4.46	Y
13	0.021	0.02	0.083	0.06	4.46	Y
14	0.020	0.02	0.067	0.05	4.54	Y
15	0.019	0.02	0.064	0.05	4.54	Y
16	0.023	0.02	0.063	0.06	4.53	Y
17	0.069	0.10	0.046	0.05	4.54	Y
18	0.022	0.02	0.032	0.05	4.52	Y
19	0.022	0.02	0.034	0.06	4.46	Y
20	0.021	0.02	0.032	0.06	4.46	Y
21	0.022	0.02	0.035	0.06	4.46	Y
22	0.022	0.02	0.032	0.06	4.46	Y
23	0.020	0.02	0.037	0.06	4.46	Y
24	0.023	0.02	0.045	0.06	4.46	Y
25	0.022	0.02	0.035	0.06	4.46	Y
26	0.022	0.02	0.048	0.06	4.45	Y
27	0.020	0.02	0.034	0.05	4.55	Y
28	0.020	0.02	0.043	0.04	4.61	Y
29	0.020	0.02	0.037	0.05	4.54	Y
30	0.020	0.02	0.031	0.07	4.53	Y
31	0.020	0.02	0.039	0.04	4.59	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	Yes	Yes	

PRINTED NAME: **Aaron Kunders**

DATE: **4-Nov-24**

SIGNATURE: 

WT CERT #: 684854

Notes:

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:

October

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	10/01/24	20:59	0.82	87	70.7	14.3	7.6	27	Yes	2700
2	10/02/24	23:59	0.82	86	70.3	14.3	7.5	22	Yes	2718
3	10/03/24	8:59	0.79	86	68.0	14.3	7.6	26	Yes	2708
4	10/04/24	22:59	0.78	85	66.7	14.3	7.6	26	Yes	2739
5	10/05/24	10:59	0.76	84	63.5	14.3	7.6	26	Yes	2785
6	10/06/24	23:59	0.77	85	65.6	14.3	7.6	26	Yes	2738
7	10/07/24	10:59	0.77	83	63.9	14.3	7.5	22	Yes	2834
8	10/08/24	4:59	0.77	86	66.2	14.3	7.5	22	Yes	2728
9	10/09/24	15:59	0.75	118	88.7	14.3	7.6	26	Yes	1973
10	10/10/24	15:59	0.74	118	87.8	14.3	7.6	26	Yes	1975
11	10/11/24	20:59	0.73	120	87.2	14.2	7.5	22	Yes	1953
12	10/12/24	16:59	0.73	119	86.9	14.2	7.5	22	Yes	1966
13	10/13/24	15:59	0.74	119	88.1	14.2	7.5	22	Yes	1961
14	10/14/24	2:59	0.73	119	87.2	14.3	7.6	26	Yes	1969
15	10/15/24	9:59	0.72	119	85.1	14.3	7.5	22	Yes	1966
16	10/16/24	9:59	0.71	117	82.9	14.3	7.7	26	Yes	1993
17	10/17/24	13:59	0.69	119	82.0	14.3	7.5	22	Yes	1968
18	10/18/24	9:59	0.69	118	81.9	14.3	7.7	26	Yes	1980
19	10/19/24	13:59	0.68	119	80.7	14.4	7.7	26	Yes	1973
20	10/20/24	20:59	0.69	119	81.4	14.4	7.6	26	Yes	1969
21	10/21/24	11:59	0.69	117	80.4	14.4	7.6	26	Yes	1995
22	10/22/24	23:59	0.68	118	80.5	14.4	7.8	26	Yes	1981
23	10/23/24	15:59	0.68	119	80.9	14.4	7.8	26	Yes	1963
24	10/24/24	12:59	0.68	117	79.4	14.3	7.8	26	Yes	1991
25	10/25/24	0:59	0.69	118	82.1	14.3	7.8	26	Yes	1975
26	10/26/24	13:59	0.67	118	79.3	14.4	7.8	26	Yes	1990
27	10/27/24	8:59	0.67	119	79.1	14.4	7.7	26	Yes	1967
28	10/28/24	17:59	Residual(mg	119	84.5	14.4	7.8	26	Yes	1970
29	10/29/24	9:59	0.71	118	83.9	14.3	7.7	26	Yes	1988
30	10/30/24	13:59	0.73	119	87.0	14.4	7.6	26	Yes	1971
31	10/31/24	0:59	0.71	119	84.9	14.3	8.0	26	Yes	1959

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