

OHA - Drinking Water Program - Turbidity Monitoring Report Form **Columbia County**

Membrane Filtration
St. Helens PWS ID #4100724 WTP -: A **April** **2021**

| DAY | DATE | 12 AM (NTU) [AIT-4001] | 4 AM (NTU) [AIT-4001] | 8 AM (NTU) [AIT-4001] | 12 PM (NTU) [AIT-4001] | 4 PM (NTU) [AIT-4001] | 8 PM (NTU) [AIT-4001] | Filter Effluent Max Turbidity (NTU) [AIT-4001] |
|-----|----------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|--|
| 1 | 04/01/21 | 0.015 | no | no | 0.017 | 0.016 | no | 0.019 |
| 2 | 04/02/21 | no | 0.016 | no | 0.018 | 0.017 | no | 0.018 |
| 3 | 04/03/21 | 0.018 | 0.016 | no | 0.016 | 0.016 | no | 0.019 |
| 4 | 04/04/21 | 0.016 | no | no | 0.016 | 0.016 | 0.017 | 0.018 |
| 5 | 04/05/21 | 0.016 | no | no | 0.016 | 0.016 | no | 0.018 |
| 6 | 04/06/21 | 0.016 | no | 0.018 | 0.016 | 0.016 | no | 0.018 |
| 7 | 04/07/21 | no | 0.016 | no | 0.018 | 0.016 | no | 0.018 |
| 8 | 04/08/21 | 0.017 | no | 0.017 | 0.016 | no | 0.017 | 0.021 |
| 9 | 04/09/21 | 0.016 | no | no | 0.016 | no | 0.016 | 0.017 |
| 10 | 04/10/21 | 0.016 | no | no | 0.016 | no | no | 0.018 |
| 11 | 04/11/21 | 0.016 | no | no | 0.016 | 0.016 | 0.016 | 0.017 |
| 12 | 04/12/21 | no | no | 0.016 | no | 0.018 | 0.016 | 0.018 |
| 13 | 04/13/21 | no | no | 0.016 | 0.016 | 0.017 | no | 0.018 |
| 14 | 04/14/21 | 0.016 | no | no | 0.016 | 0.017 | 0.017 | 0.017 |
| 15 | 04/15/21 | no | 0.019 | no | no | 0.017 | no | 0.019 |
| 16 | 04/16/21 | no | no | 0.016 | 0.017 | no | 0.017 | 0.019 |
| 17 | 04/17/21 | no | no | 0.019 | 0.017 | no | 0.019 | 0.019 |
| 18 | 04/18/21 | 0.017 | no | no | 0.017 | 0.019 | no | 0.019 |
| 19 | 04/19/21 | 0.016 | no | no | 0.016 | no | no | 0.020 |
| 20 | 04/20/21 | 0.016 | no | 0.016 | 0.017 | no | 0.018 | 0.019 |
| 21 | 04/21/21 | no | no | 0.016 | 0.016 | 0.017 | no | 0.018 |
| 22 | 04/22/21 | 0.018 | no | no | 0.016 | no | 0.017 | 0.018 |
| 23 | 04/23/21 | 0.016 | no | no | 0.016 | no | no | 0.019 |
| 24 | 04/24/21 | 0.016 | no | 0.018 | 0.015 | 0.016 | no | 0.018 |
| 25 | 04/25/21 | no | 0.016 | no | 0.016 | 0.016 | no | 0.017 |
| 26 | 04/26/21 | 0.016 | no | no | 0.017 | no | no | 0.017 |
| 27 | 04/27/21 | 0.016 | no | 0.017 | 0.016 | no | no | 0.018 |
| 28 | 04/28/21 | 0.016 | no | no | 0.016 | no | 0.018 | 0.018 |
| 29 | 04/29/21 | 0.016 | no | no | 0.017 | no | 0.018 | 0.018 |
| 30 | 04/30/21 | 0.016 | no | 0.016 | 0.016 | no | no | 0.018 |
| 31 | | no | no | no | no | no | no | |

| | | |
|--|--|--|
| Slow Sand/Membrane/DE Filtration/Unfiltered | Monthly Summary (Answer Yes or No) | |
| | 95% of daily turbidity readings ≤ 1 NTU? Yes/ No | CT's met everyday? (see back) Yes/ No |
| All turbidity readings < 5 NTU? Yes/ No | All CL2 residual at entry point > 0.2 mg/l? Yes/ No | |
| Notes | Printed Name: Steven Wabshall | |
| | Signature: <i>[Signature]</i> | Date: 5/03/2021 |
| | Phone #: (503) 504-5412 | Opr. Cert. # 2265 |

OHA - Drinking Water Program - Surface Water Quality Data Form

St Helens Oregon

PWS#4100724 WFP - A

Month:

April

Year:

2021

| 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-7042] | Required CT from tables (0.5-log) | CT Met? Yes/No | Peak Hourly Demand Flow (GPM) |
|-----|----------|-------------------|---|----------------------|----------------------|---------------------------|---------------|-----------------------------------|----------------|-------------------------------|
| 1 | 04/01/21 | 11:59 | 0.67 | 114 | 76.4 | 13.0 | 7.1 | 22 | Yes | 2055 |
| 2 | 04/02/21 | 13:59 | 0.64 | 112 | 71.8 | 13.0 | 7.2 | 22 | Yes | 2085 |
| 3 | 04/03/21 | 13:59 | 0.64 | 114 | 72.6 | 13.1 | 7.2 | 22 | Yes | 2049 |
| 4 | 04/04/21 | 21:59 | 0.68 | 113 | 76.9 | 13.1 | 7.2 | 22 | Yes | 2061 |
| 5 | 04/05/21 | 11:59 | 0.62 | 113 | 69.9 | 13.1 | 7.1 | 22 | Yes | 2063 |
| 6 | 04/06/21 | 9:59 | 0.73 | 114 | 83.0 | 12.9 | 7.1 | 22 | Yes | 2058 |
| 7 | 04/07/21 | 14:59 | 0.69 | 114 | 79.3 | 13.1 | 7.1 | 22 | Yes | 2047 |
| 8 | 04/08/21 | 21:59 | 0.71 | 114 | 81.1 | 13.0 | 7.1 | 22 | Yes | 2048 |
| 9 | 04/09/21 | 11:59 | 0.65 | 113 | 73.4 | 13.0 | 7.1 | 22 | Yes | 2062 |
| 10 | 04/10/21 | 23:59 | 0.66 | 114 | 75.0 | 13.0 | 7.1 | 22 | Yes | 2048 |
| 11 | 04/11/21 | 14:59 | 0.71 | 114 | 81.6 | 13.0 | 7.1 | 22 | Yes | 2045 |
| 12 | 04/12/21 | 18:59 | 0.67 | 114 | 76.5 | 13.0 | 7.1 | 22 | Yes | 2050 |
| 13 | 04/13/21 | 9:59 | 0.67 | 114 | 76.1 | 13.1 | 7.1 | 22 | Yes | 2058 |
| 14 | 04/14/21 | 17:59 | 0.70 | 115 | 80.7 | 13.1 | 7.1 | 22 | Yes | 2031 |
| 15 | 04/15/21 | 6:59 | 0.71 | 115 | 81.2 | 13.1 | 7.1 | 22 | Yes | 2034 |
| 16 | 04/16/21 | 6:59 | 0.68 | 114 | 77.4 | 13.2 | 7.1 | 22 | Yes | 2045 |
| 17 | 04/17/21 | 12:59 | 0.72 | 114 | 81.5 | 13.2 | 7.1 | 22 | Yes | 2055 |
| 18 | 04/18/21 | 12:59 | 0.68 | 114 | 78.0 | 13.2 | 7.1 | 22 | Yes | 2053 |
| 19 | 04/19/21 | 11:59 | 0.67 | 113 | 75.1 | 13.1 | 7.1 | 22 | Yes | 2076 |
| 20 | 04/20/21 | 14:59 | 0.68 | 115 | 78.5 | 13.2 | 7.1 | 22 | Yes | 2027 |
| 21 | 04/21/21 | 8:59 | 0.67 | 115 | 76.2 | 13.2 | 7.2 | 22 | Yes | 2041 |
| 22 | 04/22/21 | 22:59 | 0.67 | 115 | 76.7 | 13.2 | 7.2 | 22 | Yes | 2039 |
| 23 | 04/23/21 | 10:59 | 0.76 | 114 | 86.6 | 13.2 | 7.2 | 22 | Yes | 2052 |
| 24 | 04/24/21 | 9:59 | 0.70 | 109 | 76.3 | 13.2 | 7.1 | 22 | Yes | 2144 |
| 25 | 04/25/21 | 13:59 | 0.68 | 114 | 77.3 | 13.2 | 7.2 | 22 | Yes | 2056 |
| 26 | 04/26/21 | 22:59 | 0.73 | 113 | 83.0 | 13.2 | 7.3 | 22 | Yes | 2069 |
| 27 | 04/27/21 | 9:59 | 0.66 | 112 | 73.5 | 13.2 | 7.2 | 22 | Yes | 2084 |
| 28 | 04/28/21 | 10:59 | 0.65 | 113 | 73.9 | 13.2 | 7.2 | 22 | Yes | 2068 |
| 29 | 04/29/21 | 10:59 | 0.67 | 113 | 76.0 | 13.2 | 7.2 | 22 | Yes | 2073 |
| 30 | 04/30/21 | 12:59 | 0.66 | 113 | 74.5 | 13.2 | 7.2 | 22 | Yes | 2063 |
| 31 | 03/14/05 | | | o | | | | | | |

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