

# OHA - DWS

## Membrane Filter Monthly Operating Report

County: **Clatsop**

System Name: **City of Warrenton**

Month/Year: **Aug-2024**

PWS ID#: 41 - **00932**

Minimum test pressure **applied**: 20 psi

Plant ID: WTP - \_\_\_\_\_

Minimum test pressure **req'd**: 19 psi

(e.g., "A")

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

PDR = Pressure Decay Rate

LRC = Log Removal Credit

| Day | CFE Daily Turbidity [NTU] | Highest CFE* [NTU] | Highest IFE [NTU] | PDR <sub>Max</sub> [ <sup>psi</sup> / <sub>min</sub> ] | LRC [log removal]                                  | DIT Daily      |
|-----|---------------------------|--------------------|-------------------|--|--|----------------|
|     |                           |                    |                   | 0.500  | 4.00   |                |
|     |                           |                    |                   | Highest PDR of day [ <sup>psi</sup> / <sub>min</sub> ] | Lowest LRV <sub>ambient</sub> of day [log removal] | [Y/N] or "off" |
| 1   | 0.03                      | 0.03               | 0.043             | 0.33   | 4.57   | y              |
| 2   | 0.03                      | 0.03               | 0.046             | 0.27   | 4.55   | y              |
| 3   | 0.05                      | 0.05               | 0.052             | 0.25   | 4.65   | y              |
| 4   | 0.03                      | 0.03               | 0.052             | 0.25   | 4.72   | y              |
| 5   | 0.03                      | 0.03               | 0.056             | 0.32   | 4.65   | y              |
| 6   | 0.03                      | 0.03               | 0.057             | 0.26   | 4.53   | y              |
| 7   | 0.03                      | 0.03               | 0.061             | 0.43   | 4.35   | y              |
| 8   | 0.04                      | 0.04               | 0.087             | 0.44   | 4.33   | y              |
| 9   | 0.04                      | 0.04               | 0.066             | 0.26   | 4.34   | y              |
| 10  | 0.04                      | 0.04               | 0.068             | 0.25   | 4.42   | y              |
| 11  | 0.04                      | 0.04               | 0.070             | 0.23   | 4.74   | y              |
| 12  | 0.04                      | 0.04               | 0.074             | 0.23   | 4.57   | y              |
| 13  | 0.04                      | 0.04               | 0.064             | 0.24   | 4.57   | y              |
| 14  | 0.03                      | 0.03               | 0.045             | 0.23   | 4.56   | y              |
| 15  | 0.03                      | 0.03               | 0.043             | 0.30   | 4.55   | y              |
| 16  | 0.03                      | 0.03               | 0.039             | 0.24   | 4.66   | y              |
| 17  | 0.03                      | 0.03               | 0.040             | 0.24   | 4.78   | y              |
| 18  | 0.03                      | 0.03               | 0.043             | 0.24   | 4.56   | y              |
| 19  | 0.03                      | 0.03               | 0.043             | 0.24   | 4.73   | y              |
| 20  | 0.03                      | 0.03               | 0.066             | 0.27   | 4.53   | y              |
| 21  | 0.03                      | 0.03               | 0.043             | 0.27   | 4.52   | y              |
| 22  | 0.03                      | 0.03               | 0.113             | 0.26   | 4.54   | y              |
| 23  | 0.03                      | 0.03               | 0.055             | 0.29   | 4.50   | y              |
| 24  | 0.03                      | 0.03               | 0.047             | 0.27   | 4.62   | y              |
| 25  | 0.03                      | 0.03               | 0.049             | 0.29   | 4.60   | y              |
| 26  | 0.04                      | 0.04               | 0.051             | 0.31   | 4.64   | y              |
| 27  | 0.03                      | 0.03               | 0.055             | 0.32   | 4.51   | y              |
| 28  | 0.03                      | 0.03               | 0.050             | 0.33   | 4.58   | y              |
| 29  | 0.03                      | 0.03               | 0.055             | 0.27   | 4.62   | y              |
| 30  | 0.03                      | 0.03               | 0.054             | 0.31   | 4.64   | y              |
| 31  | 0.03                      | 0.03               | 0.052             | 0.24   | 4.66   | 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]<br>(PDR ≤ PDR <sub>Max</sub> , LRV ≥ LRC) | DIT Daily? |
| <b>Yes</b>                                     | <b>Yes</b>                                     | <b>Yes</b>                                   | <b>Yes</b>   | <b>Yes</b> |
| CT's met daily? (p. 2)                         | All Cl <sub>2</sub> residual at EP ≥ 0.2 mg/L? | PDR ≤ PDR <sub>Max</sub> ?                   | LRV <sub>ambient</sub> ≥ LRC?  |            |
| <b>Yes</b>                                     | <b>Yes</b>                                     | <b>Yes</b>                                   | <b>Yes</b>   |            |

|   |                              |
|---|------------------------------|
| <b>PRINTED NAME:</b> Dave G Davis   | <b>DATE:</b> 9/6/2024        |
| <b>SIGNATURE:</b>  | <b>WT CERT #:</b> T-08549    |
| <b>Notes:</b>   | <b>PHONE #:</b> 503-738-7809 |

♣ Used for optimization purposes only.

**Disinfection Monthly Operating Report**

System Name: **City of Warrenton**

PWS ID#: 41 - **00932**

Plant ID : WTP - \_\_\_\_\_

**0.5**

↔ Log Inactivation Required via Disinfection

| Day | Minimum Cl <sub>2</sub> Residual at 1 <sup>st</sup> User (C) * [mg/L = ppm] | Contact Time (T) [minutes] | Actual CT C x T (Formula) | Temp [° C] | pH   | Required CT (Formula) | CT Met? * [Yes / No] (Formula) | Peak Hourly Demand Flow [GPM] | Notes (e.g. "Plant Off") |
|-----|---|----------------------------|---------------------------|------------|------|-----------------------|--------------------------------|-------------------------------|--------------------------|
| 1   | 1.100   | 136.78                     | 150.5                     | 16.1       | 7.03 | 12.9                  | YES                            | 1,930                         |                          |
| 2   | 1.100   | 139.022                    | 152.9                     | 17.1       | 6.99 | 11.9                  | YES                            | 1,899                         |                          |
| 3   | 1.200   | 134.924                    | 161.9                     | 16.3       | 7.10 | 13.3                  | YES                            | 1,957                         |                          |
| 4   | 1.100   | 134.987                    | 148.5                     | 16.2       | 7.11 | 13.2                  | YES                            | 1,956                         |                          |
| 5   | 1.100   | 137.236                    | 151.0                     | 15.9       | 7.09 | 13.4                  | YES                            | 1,924                         |                          |
| 6   | 1.100   | 137.694                    | 151.5                     | 15.9       | 7.10 | 13.4                  | YES                            | 1,917                         |                          |
| 7   | 1.200   | 134.483                    | 161.4                     | 15.1       | 7.13 | 14.5                  | YES                            | 1,963                         |                          |
| 8   | 1.200   | 129.123                    | 154.9                     | 16.1       | 7.04 | 13.1                  | YES                            | 2,045                         |                          |
| 9   | 1.100   | 130.644                    | 143.7                     | 15.8       | 7.08 | 13.5                  | YES                            | 2,021                         |                          |
| 10  | 1.100   | 129.297                    | 142.2                     | 15.3       | 7.06 | 13.8                  | YES                            | 2,042                         |                          |
| 11  | 1.000   | 130.467                    | 130.5                     | 15.9       | 7.06 | 13.1                  | YES                            | 2,024                         |                          |
| 12  | 1.000   | 133.673                    | 133.7                     | 14.9       | 7.11 | 14.2                  | YES                            | 1,975                         |                          |
| 13  | 1.100   | 128.892                    | 141.8                     | 14.7       | 7.09 | 14.5                  | YES                            | 2,048                         |                          |
| 14  | 1.100   | 134.672                    | 148.1                     | 14.8       | 7.15 | 14.8                  | YES                            | 1,960                         |                          |
| 15  | 1.100   | 129.879                    | 142.9                     | 15.4       | 7.08 | 13.9                  | YES                            | 2,033                         |                          |
| 16  | 1.200   | 132.384                    | 158.9                     | 15.5       | 7.09 | 14.0                  | YES                            | 1,994                         |                          |
| 17  | 1.200   | 130.822                    | 157.0                     | 15.8       | 7.07 | 13.6                  | YES                            | 2,018                         |                          |
| 18  | 1.100   | 134.421                    | 147.9                     | 14.4       | 7.04 | 14.5                  | YES                            | 1,964                         |                          |
| 19  | 1.000   | 142.246                    | 142.2                     | 15.0       | 7.08 | 14.0                  | YES                            | 1,856                         |                          |
| 20  | 1.000   | 134.046                    | 134.0                     | 14.4       | 7.09 | 14.6                  | YES                            | 1,969                         |                          |
| 21  | 1.100   | 154.934                    | 170.4                     | 15.0       | 7.09 | 14.3                  | YES                            | 1,704                         |                          |
| 22  | 1.100   | 140.65                     | 154.7                     | 14.8       | 7.06 | 14.2                  | YES                            | 1,877                         |                          |
| 23  | 1.000   | 157.558                    | 157.6                     | 14.6       | 7.13 | 14.7                  | YES                            | 1,676                         |                          |
| 24  | 1.100   | 22                         | 24.2                      | 14.1       | 7.04 | 14.8                  | YES                            | 1,643                         |                          |
| 25  | 1.100   | 156.787                    | 172.5                     | 13.5       | 7.04 | 15.5                  | YES                            | 1,684                         |                          |
| 26  | 1.200   | 149.163                    | 179.0                     | 14.5       | 7.01 | 14.5                  | YES                            | 1,770                         |                          |
| 27  | 1.200   | 136.975                    | 164.4                     | 14.2       | 7.04 | 14.9                  | YES                            | 1,927                         |                          |
| 28  | 1.200   | 155.771                    | 186.9                     | 14.5       | 7.02 | 14.5                  | YES                            | 1,695                         |                          |
| 29  | 1.200   | 137.892                    | 165.5                     | 14.0       | 7.06 | 15.2                  | YES                            | 1,915                         |                          |
| 30  | 1.200   | 141.132                    | 169.4                     | 14.4       | 7.00 | 14.5                  | YES                            | 1,871                         |                          |
| 31  | 1.100   | 138.821                    | 152.7                     | 15.1       | 6.98 | 13.6                  | YES                            | 1,902                         |                          |

\* If chlorine concentration at entry point < 0.2 mg/L, or CT not met, notify DWS within 24 hours.

**Submit this monthly report by the 10<sup>th</sup> of following month by**

mail: Drinking Water Services  
 PO Box 14350  
 Portland, OR 97293-0350  
 email: [dwp.dmce@odhsoha.oregon.gov](mailto:dwp.dmce@odhsoha.oregon.gov)  
 fax: 971-673-0458