

**Bush Brothers & Company #3**  
**3304 Chestnut Hill Road**  
**Dandridge, TN 37725**  
**PWSID # 0004415**  
**Daily Operational Report 2024**

| Date   | Wat. Treated, 1000 Gal. |          | Temp.<br>Celsius | Turb.<br>Raw | Finished Water Turbidity |      |      |      |      |      | Chlorine Residual |          | Chlorine, LBS. |       |      | Alkalinity |       | pH       |  |
|--------|-------------------------|----------|------------------|--------------|--------------------------|------|------|------|------|------|-------------------|----------|----------------|-------|------|------------|-------|----------|--|
|        | Raw                     | Finished |                  |              | 12-4                     | 4-8  | 8-12 | 12-4 | 4-8  | 8-12 | Raw               | Effluent | Pre            | Post  | Raw  | Finished   | Raw   | Finished |  |
| 1-Apr  | 1411.5                  | "        | 14               | 1.22         | 0.11                     | 0.11 | 0.10 | 0.09 | 0.08 | 0.08 | 0.0               | 2.0      | 0.0            | 34.5  | 155  | 153        | 7.7   | 7.6      |  |
| 2-Apr  | 1460.7                  | "        | 14               | 2.10         | 0.08                     | 0.08 | 0.08 | 0.09 | 0.10 | 0.12 | 0.0               | 2.2      | 0.0            | 35.7  | 164  | 157        | 7.6   | 7.5      |  |
| 3-Apr  | 1366.2                  | "        | 15               | 1.78         | 0.14                     | 0.15 | 0.14 | 0.12 | 0.10 | 0.10 | 0.0               | 2.0      | 0.0            | 35.6  | 174  | 164        | 7.6   | 7.5      |  |
| 4-Apr  | 1389.6                  | "        | 13               | 3.81         | 0.10                     | 0.12 | 0.10 | 0.10 | 0.09 | 0.09 | 0.0               | 2.2      | 0.0            | 39.5  | 164  | 163        | 7.7   | 7.6      |  |
| 5-Apr  | 2054.3                  | "        | 12               | 3.24         | 0.09                     | 0.10 | 0.09 | 0.08 | 0.08 | 0.09 | 0.0               | 2.1      | 0.0            | 55.1  | 168  | 161        | 7.7   | 7.7      |  |
| 6-Apr  | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 7-Apr  | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 8-Apr  | 1908.3                  | "        | 12               | 3.92         | 0.12                     | 0.15 | 0.14 | 0.11 | 0.10 | 0.09 | 0.2               | 2.1      | 9.7            | 40.0  | 176  | 161        | 7.7   | 7.7      |  |
| 9-Apr  | 1983.9                  | "        | 12               | 1.82         | 0.10                     | 0.10 | 0.09 | 0.09 | 0.15 | 0.08 | 0.3               | 1.7      | 7.0            | 39.5  | 164  | 162        | 7.6   | 7.5      |  |
| 10-Apr | 1665.0                  | "        | 13               | 2.63         | 0.11                     | 0.14 | 0.12 | 0.11 | 0.10 | 0.10 | 0.2               | 1.7      | 4.0            | 37.9  | 168  | 166        | 7.6   | 7.5      |  |
| 11-Apr | 1436.2                  | "        | 14               | 2.49         | 0.13                     | 0.13 | 0.12 | 0.10 | 0.09 | 0.09 | 0.1               | 2.1      | 3.2            | 36.6  | 173  | 168        | 7.6   | 7.5      |  |
| 12-Apr | 1904.6                  | "        | 14               | 2.07         | 0.12                     | 0.11 | 0.11 | 0.12 | 0.13 | 0.13 | 0.0               | 2.3      | 3.6            | 55.3  | 166  | 162        | 7.6   | 7.5      |  |
| 13-Apr | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 14-Apr | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 15-Apr | 1781.8                  | "        | 14               | 2.52         | 0.13                     | 0.13 | 0.12 | 0.11 | 0.10 | 0.10 | 0.2               | 2.1      | 7.4            | 40.7  | 168  | 162        | 7.8   | 7.7      |  |
| 16-Apr | 1724.6                  | "        | 15               | 2.45         | 0.10                     | 0.10 | 0.10 | 0.08 | 0.08 | 0.09 | 0.2               | 1.9      | 6.1            | 39.4  | 158  | 155        | 7.6   | 7.5      |  |
| 17-Apr | 1543.3                  | "        | 16               | 2.50         | 0.09                     | 0.10 | 0.10 | 0.09 | 0.09 | 0.10 | 0.3               | 2.0      | 4.9            | 38.9  | 164  | 154        | 7.7   | 7.6      |  |
| 18-Apr | 1496.6                  | "        | 15               | 2.02         | 0.10                     | 0.09 | 0.09 | 0.10 | 0.11 | 0.14 | 0.2               | 2.2      | 5.0            | 39.0  | 172  | 167        | 7.6   | 7.5      |  |
| 19-Apr | 1473.6                  | "        | 15               | 2.13         | 0.16                     | 0.16 | 0.14 | 0.12 | 0.13 | 0.14 | 0.1               | 2.2      | 4.5            | 36.2  | 161  | 160        | 7.6   | 7.5      |  |
| 20-Apr | 1703.4                  | "        | 16               | 2.15         | 0.15                     | 0.15 | 0.14 | 0.13 | 0.13 | 0.13 | 0.0               | 2.1      | 2.3            | 46.0  | 164  | 157        | 7.6   | 7.5      |  |
| 21-Apr | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 22-Apr | 1298.6                  | "        | 15               | 1.71         | 0.13                     | 0.12 | 0.12 | 0.11 | 0.12 | 0.13 | 0.3               | 2.1      | 7.7            | 37.6  | 170  | 164        | 7.6   | 7.6      |  |
| 23-Apr | 1234.0                  | "        | 14               | 1.44         | 0.16                     | 0.15 | 0.14 | 0.13 | 0.13 | 0.15 | 0.3               | 2.4      | 8.0            | 40.7  | 160  | 154        | 7.6   | 7.6      |  |
| 24-Apr | 1321.3                  | "        | 14               | 1.66         | 0.18                     | 0.18 | 0.16 | 0.15 | 0.14 | 0.13 | 0.3               | 2.3      | 8.0            | 32.0  | 154  | 153        | 7.8   | 7.7      |  |
| 25-Apr | 1327.7                  | "        | 14               | 1.77         | 0.13                     | 0.12 | 0.11 | 0.12 | 0.11 | 0.11 | 0.5               | 2.2      | 8.8            | 36.3  | 156  | 153        | 7.6   | 7.5      |  |
| 26-Apr | 1982.7                  | "        | 15               | 2.25         | 0.12                     | 0.13 | 0.13 | 0.13 | 0.14 | 0.16 | 0.0               | 2.2      | 6.5            | 51.6  | 162  | 159        | 7.6   | 7.5      |  |
| 27-Apr | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 28-Apr | *                       | *        | *                | *            | *                        | *    | *    | *    | *    | *    | *                 | *        | *              | *     | *    | *          | *     | *        |  |
| 29-Apr | 2077.5                  | "        | 16               | 1.81         | 0.14                     | 0.15 | 0.15 | 0.15 | 0.14 | 0.15 | 0.2               | 1.8      | 20.3           | 38.3  | 165  | 155        | 7.6   | 7.6      |  |
| 30-Apr | 2065.1                  | "        | 16               | 2.15         | 0.14                     | 0.14 | 0.14 | 0.13 | 0.12 | 0.14 | 0.4               | 1.6      | 12.7           | 37.0  | 164  | 157        | 7.6   | 7.5      |  |
|        |                         |          |                  |              |                          |      |      |      |      |      |                   |          |                |       |      |            |       |          |  |
|        |                         |          |                  |              |                          |      |      |      |      |      |                   |          |                |       |      |            |       |          |  |
| Total  | 37610.5                 | "        | 328              | 51.64        | 2.83                     | 2.91 | 2.73 | 2.56 | 2.56 | 2.64 | 3.8               | 47.5     | 129.7          | 923.4 | 3790 | 3667       | 175.7 | 173.9    |  |
| Avg.   | 1635.2                  | "        | 14               | 2.25         | 0.12                     | 0.13 | 0.12 | 0.11 | 0.11 | 0.11 | 0.2               | 2.1      | 5.6            | 40.1  | 165  | 159        | 7.6   | 7.6      |  |
| Max.   | 2077.5                  | "        | 16               | 3.92         | 0.18                     | 0.18 | 0.16 | 0.15 | 0.15 | 0.16 | 0.5               | 2.4      | 20.3           | 55.3  | 176  | 168        | 7.8   | 7.7      |  |
| Min.   | 1234.0                  | "        | 12               | 1.22         | 0.08                     | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.0               | 1.6      | 0.0            | 32.0  | 154  | 153        | 7.6   | 7.5      |  |

\*Non-operational date.

**Bush Brothers & Co. #3 Water System**  
**PWSID # 0004415**  
**Dandridge, TN 37725**  
**DISINFECTION PROFILE**

2024

Enter Baffling Factor for Stage 1: 0.70  
 Enter Baffling Factor for Stage 2: 1.00

Apr-24

| Sample Date | Treatment Stage    | Disinfectant  | Residual Conc. (mg/L) | pH   | Temp. (Celsius) | Peak Flow (GPM) | Vol. Min. (gal) | TDI (min) | T10 (min) | CT calc | CT Req | IR      | Total IR |
|-------------|--------------------|---------------|-----------------------|------|-----------------|-----------------|-----------------|-----------|-----------|---------|--------|---------|----------|
| 4/1/2024    | 1. First sequence  | Free Chlorine | 0.00                  | 7.70 | 14.0            | 2,001           | 56,000          | 28.0      | 19.6      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.00                  | 7.60 | 14.0            | 89              | 56,000          | 629.2     | 629.2     | 1,258.4 | 37.8   | 33.29   | 33.29    |
| 4/2/2024    | 1. First sequence  | Free Chlorine | 0.00                  | 7.60 | 14.0            | 2,002           | 56,000          | 28.0      | 19.6      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.50 | 14.0            | 67              | 56,000          | 835.8     | 835.8     | 1,838.8 | 37.2   | 49.43   | 49.43    |
| 4/3/2024    | 1. First sequence  | Free Chlorine | 0.00                  | 7.60 | 15.0            | 2,331           | 56,000          | 24.0      | 16.8      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.00                  | 7.50 | 15.0            | 130             | 56,000          | 430.8     | 430.8     | 861.5   | 33.4   | 25.79   | 25.79    |
| 4/4/2024    | 1. First sequence  | Free Chlorine | 0.00                  | 7.70 | 13.0            | 1,872           | 56,000          | 29.9      | 20.9      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.60 | 13.0            | 85              | 56,000          | 658.8     | 658.8     | 1,449.4 | 42.1   | 34.43   | 34.43    |
| 4/5/2024    | 1. First sequence  | Free Chlorine | 0.00                  | 7.70 | 12.0            | 1,994           | 56,000          | 28.1      | 19.7      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.70 | 12.0            | 69              | 56,000          | 811.6     | 811.6     | 1,704.3 | 47.1   | 36.19   | 36.19    |
| 4/8/2024    | 1. First sequence  | Free Chlorine | 0.20                  | 7.70 | 12.0            | 2,141           | 56,000          | 26.2      | 18.3      | 3.7     | 38.4   | 0.10    |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.70 | 12.0            | 66              | 56,000          | 848.5     | 848.5     | 1,781.8 | 47.1   | 37.83   | 37.93    |
| 4/9/2024    | 1. First sequence  | Free Chlorine | 0.30                  | 7.60 | 12.0            | 2,039           | 56,000          | 27.5      | 19.2      | 5.8     | 37.1   | 0.16    |          |
|             | 2. Second sequence | Free Chlorine | 1.70                  | 7.50 | 12.0            | 102             | 56,000          | 549.0     | 549.0     | 933.3   | 41.7   | 22.38   | 22.54    |
| 4/10/2024   | 1. First sequence  | Free Chlorine | 0.20                  | 7.60 | 13.0            | 2,045           | 56,000          | 27.4      | 19.2      | 3.8     | 34.1   | 0.11    |          |
|             | 2. Second sequence | Free Chlorine | 1.70                  | 7.50 | 13.0            | 78              | 56,000          | 717.9     | 717.9     | 1,220.5 | 38.4   | 31.78   | 31.89    |
| 4/11/2024   | 1. First sequence  | Free Chlorine | 0.10                  | 7.60 | 14.0            | 1,927           | 56,000          | 29.1      | 20.3      | 2.0     | 31.3   | 0.06    |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.50 | 14.0            | 94              | 56,000          | 595.7     | 595.7     | 1,251.1 | 36.8   | 34.00   | 34.06    |
| 4/12/2024   | 1. First sequence  | Free Chlorine | 0.00                  | 7.60 | 14.0            | 1,936           | 56,000          | 28.9      | 20.2      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.30                  | 7.50 | 14.0            | 89              | 56,000          | 629.2     | 629.2     | 1,447.2 | 37.6   | 38.49   | 38.49    |
| 4/15/2024   | 1. First sequence  | Free Chlorine | 0.20                  | 7.80 | 14.0            | 2,151           | 56,000          | 26.0      | 18.2      | 3.6     | 33.6   | 0.11    |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.70 | 14.0            | 95              | 56,000          | 589.5     | 589.5     | 1,237.9 | 39.7   | 31.18   | 31.29    |
| 4/16/2024   | 1. First sequence  | Free Chlorine | 0.20                  | 7.60 | 15.0            | 2,096           | 56,000          | 26.7      | 18.7      | 3.7     | 28.8   | 0.13    |          |
|             | 2. Second sequence | Free Chlorine | 1.90                  | 7.50 | 15.0            | 72              | 56,000          | 777.8     | 777.8     | 1,477.8 | 33.1   | 44.65   | 44.78    |
| 4/17/2024   | 1. First sequence  | Free Chlorine | 0.30                  | 7.70 | 16.0            | 2,052           | 56,000          | 27.3      | 19.1      | 5.7     | 27.5   | 0.21    |          |
|             | 2. Second sequence | Free Chlorine | 2.00                  | 7.60 | 16.0            | 112             | 56,000          | 500.0     | 500.0     | 1,000.0 | 32.1   | 31.15   | 31.36    |
| 4/18/2024   | 1. First sequence  | Free Chlorine | 0.20                  | 7.60 | 15.0            | 1,956           | 56,000          | 28.6      | 20.0      | 4.0     | 28.8   | 0.14    |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.50 | 15.0            | 126             | 56,000          | 444.4     | 444.4     | 977.8   | 34.1   | 28.67   | 28.81    |
| 4/19/2024   | 1. First sequence  | Free Chlorine | 0.10                  | 7.60 | 15.0            | 1,956           | 56,000          | 28.6      | 20.0      | 2.0     | 28.8   | 0.07    |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.50 | 15.0            | 119             | 56,000          | 470.6     | 470.6     | 1,035.3 | 34.1   | 30.36   | 30.43    |
| 4/20/2024   | 1. First sequence  | Free Chlorine | 0.00                  | 7.60 | 16.0            | 1,993           | 56,000          | 28.1      | 19.7      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.50 | 16.0            | 107             | 56,000          | 523.4     | 523.4     | 1,099.1 | 31.2   | 35.23   | 35.23    |
| 4/22/2024   | 1. First sequence  | Free Chlorine | 0.30                  | 7.60 | 15.0            | 1,989           | 56,000          | 28.2      | 19.7      | 5.9     | 28.8   | 0.21    |          |
|             | 2. Second sequence | Free Chlorine | 2.10                  | 7.60 | 15.0            | 111             | 56,000          | 504.5     | 504.5     | 1,059.5 | 35.1   | 30.18   | 30.39    |
| 4/23/2024   | 1. First sequence  | Free Chlorine | 0.30                  | 7.60 | 14.0            | 1,930           | 56,000          | 29.0      | 20.3      | 6.1     | 31.3   | 0.19    |          |
|             | 2. Second sequence | Free Chlorine | 2.40                  | 7.60 | 14.0            | 62              | 56,000          | 903.2     | 903.2     | 2,167.7 | 39.4   | 55.02   | 55.21    |
| 4/24/2024   | 1. First sequence  | Free Chlorine | 0.30                  | 7.80 | 14.0            | 1,987           | 56,000          | 28.2      | 19.7      | 5.9     | 33.6   | 0.18    |          |
|             | 2. Second sequence | Free Chlorine | 2.30                  | 7.70 | 14.0            | 64              | 56,000          | 875.0     | 875.0     | 2,012.5 | 40.6   | 49.57   | 49.75    |
| 4/25/2024   | 1. First sequence  | Free Chlorine | 0.50                  | 7.60 | 14.0            | 1,919           | 56,000          | 29.2      | 20.4      | 10.2    | 31.7   | 0.32    |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.50 | 14.0            | 110             | 56,000          | 509.1     | 509.1     | 1,120.0 | 37.2   | 30.11   | 30.43    |
| 4/26/2024   | 1. First sequence  | Free Chlorine | 0.00                  | 7.60 | 15.0            | 2,013           | 56,000          | 27.8      | 19.5      | 0.0     | 0.0    | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine | 2.20                  | 7.50 | 15.0            | 119             | 56,000          | 470.6     | 470.6     | 1,035.3 | 34.1   | 30.36   | 30.36    |
| 4/29/2024   | 1. First sequence  | Free Chlorine | 0.20                  | 7.60 | 16.0            | 2,088           | 56,000          | 26.8      | 18.8      | 3.8     | 26.5   | 0.14    |          |
|             | 2. Second sequence | Free Chlorine | 1.80                  | 7.60 | 16.0            | 121             | 56,000          | 462.8     | 462.8     | 833.1   | 31.4   | 26.53   | 26.67    |
| 4/30/2024   | 1. First sequence  | Free Chlorine | 0.40                  | 7.60 | 16.0            | 2,041           | 56,000          | 27.4      | 19.2      | 7.7     | 26.5   | 0.29    |          |
|             | 2. Second sequence | Free Chlorine | 1.60                  | 7.50 | 16.0            | 83              | 56,000          | 674.7     | 674.7     | 1,079.5 | 29.6   | 36.47   | 36.76    |
|             | 1. First sequence  | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! | #DIV/0!  |
|             | 1. First sequence  | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! | #DIV/0!  |
|             | 1. First sequence  | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! | #DIV/0!  |
|             | 1. First sequence  | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! | #DIV/0!  |
|             | 1. First sequence  | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! |          |
|             | 2. Second sequence | Free Chlorine |                       |      |                 |                 | 56,000          | #DIV/0!   | #DIV/0!   | #DIV/0! |        | #DIV/0! | #DIV/0!  |
|             |                    |               |                       |      |                 |                 |                 |           |           |         |        | Min.    | 22.54    |
|             |                    |               |                       |      |                 |                 |                 |           |           |         |        | Max.    | 55.21    |