

Bush Brothers & Company #3
3304 Chestnut Hill Road

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3304 Chestnut Hill Road
Dandridge, TN 37725
PWSID # 0004415
Daily Operational Report 2024

Date	Wat. Treated, 1000 Gal.		Temp. Celsius	Turb. 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-Mar	1981.4	"	10	4.10	0.17	0.16	0.15	0.14	0.14	0.13	0.0	2.0	1.3	53.1	176	170	7.6	7.6
2-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4-Mar	1685.8	"	11	3.92	0.15	0.12	0.12	0.11	0.10	0.11	0.1	2.1	8.6	39.4	177	175	7.6	7.5
5-Mar	1841.4	"	12	3.44	0.12	0.11	0.11	0.11	0.10	0.10	0.1	1.8	9.4	39.3	180	171	7.6	7.5
6-Mar	1691.0	"	13	3.20	0.13	0.14	0.11	0.10	0.12	0.07	0.1	1.8	6.5	38.5	181	180	7.6	7.5
7-Mar	1435.2	"	12	2.95	0.08	0.09	0.16	0.16	0.13	0.18	0.1	2.1	5.9	35.8	180	172	7.6	7.5
8-Mar	1986.5	"	13	3.51	0.16	0.17	0.17	0.13	0.12	0.12	0.0	1.9	8.2	48.8	179	174	7.5	7.4
9-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11-Mar	2085.6	"	11	3.15	0.13	0.12	0.11	0.09	0.09	0.09	0.2	1.7	18.3	38.9	172	164	7.7	7.6
12-Mar	1959.6	"	11	3.28	0.09	0.08	0.08	0.08	0.08	0.10	0.2	1.6	17.1	41.5	170	166	7.6	7.6
13-Mar	1710.3	"	12	3.22	0.10	0.09	0.11	0.08	0.07	0.08	0.3	1.5	10.6	38.6	170	167	7.6	7.5
14-Mar	1451.9	"	13	2.97	0.09	0.09	0.08	0.08	0.08	0.08	0.4	2.1	7.5	38.8	177	172	7.5	7.4
15-Mar	1967.4	"	13	2.46	0.08	0.10	0.10	0.09	0.08	0.10	0.0	2.2	2.7	55.6	169	167	7.6	7.5
16-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-Mar	1459.8	"	12	2.79	0.12	0.12	0.09	0.09	0.08	0.07	0.3	2.3	9.0	37.0	164	162	7.7	7.6
19-Mar	1554.1	"	11	2.12	0.07	0.08	0.08	0.08	0.08	0.08	0.4	2.1	7.1	37.4	168	165	7.7	7.6
20-Mar	1587.1	"	11	2.09	0.09	0.12	0.09	0.08	0.08	0.11	0.4	2.0	4.6	37.1	165	164	7.6	7.5
21-Mar	1577.8	"	12	2.70	0.11	0.10	0.12	0.14	0.08	0.09	0.2	2.0	6.6	36.9	165	158	7.7	7.6
22-Mar	1832.4	"	12	2.10	0.10	0.10	0.08	0.08	0.10	0.11	0.0	2.1	0.0	45.9	161	151	7.6	7.6
23-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25-Mar	1295.5	"	11	1.67	0.10	0.10	0.09	0.09	0.08	0.08	0.0	2.4	0.0	36.2	162	155	7.7	7.6
26-Mar	1488.8	"	12	2.46	0.10	0.10	0.10	0.09	0.09	0.08	0.0	2.0	0.0	32.9	165	156	7.7	7.6
27-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
31-Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	30591.6	"	212	52.13	1.99	1.99	1.95	1.82	1.70	1.78	2.8	35.7	123.4	731.7	3081	2989	137.2	135.7
Avg.	1699.5	"	12	2.90	0.11	0.11	0.11	0.10	0.09	0.10	0.2	2.0	6.9	40.7	171	166	7.6	7.5
Max.	2085.6	"	13	4.10	0.17	0.17	0.17	0.16	0.14	0.18	0.4	2.4	18.3	55.6	181	180	7.7	7.6
Min.	1295.5	"	10	1.67	0.07	0.08	0.08	0.08	0.07	0.07	0.0	1.5	0.0	32.9	161	151	7.5	7.4

*Non-operational date.

Earl Matheny - WT 2
Earl Matheny

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

Mar-24

Sample Date	Treatment Stage	Disinfectant	Residual Conc. (mg/L)	pH	Temp. (Celsius)	Peak Flow (GPM)	Vol. Min. (gal)	TDT (min)	T10 (min)	CT calc	CT Req	IR	Total IR
3/1/2024	1. First sequence	Free Chlorine	0.00	7.60	10.0	2,195	56,000	25.5	17.9	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.00	7.60	10.0	47	56,000	1,191.5	1,191.5	2,383.0	52.1	45.76	45.76
3/4/2024	1. First sequence	Free Chlorine	0.10	7.60	11.0	2,044	56,000	27.4	19.2	1.9	40.1	0.05	
	2. Second sequence	Free Chlorine	2.10	7.50	11.0	60	56,000	933.3	933.3	1,960.0	47.1	41.61	41.66
3/5/2024	1. First sequence	Free Chlorine	0.10	7.60	12.0	2,037	56,000	27.5	19.2	1.9	37.1	0.05	
	2. Second sequence	Free Chlorine	1.80	7.50	12.0	67	56,000	835.8	835.8	1,504.5	42.2	35.65	35.70
3/6/2024	1. First sequence	Free Chlorine	0.10	7.60	13.0	2,045	56,000	27.4	19.2	1.9	34.1	0.06	
	2. Second sequence	Free Chlorine	1.80	7.50	13.0	59	56,000	949.2	949.2	1,708.5	38.8	44.03	44.09
3/7/2024	1. First sequence	Free Chlorine	0.10	7.60	12.0	1,838	56,000	30.5	21.3	2.1	37.1	0.06	
	2. Second sequence	Free Chlorine	2.10	7.50	12.0	63	56,000	888.9	888.9	1,866.7	43.6	42.81	42.87
3/8/2024	1. First sequence	Free Chlorine	0.00	7.50	13.0	2,019	56,000	27.7	19.4	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	1.90	7.40	13.0	77	56,000	727.3	727.3	1,381.8	37.8	36.56	36.56
3/11/2024	1. First sequence	Free Chlorine	0.20	7.70	11.0	2,121	56,000	26.4	18.5	3.7	41.6	0.09	
	2. Second sequence	Free Chlorine	1.70	7.60	11.0	63	56,000	888.9	888.9	1,511.1	46.9	32.22	32.31
3/12/2024	1. First sequence	Free Chlorine	0.20	7.60	11.0	2,061	56,000	27.2	19.0	3.8	40.1	0.09	
	2. Second sequence	Free Chlorine	1.60	7.60	11.0	65	56,000	861.5	861.5	1,378.5	46.4	29.71	29.80
3/13/2024	1. First sequence	Free Chlorine	0.30	7.60	12.0	2,115	56,000	26.5	18.5	5.6	37.1	0.15	
	2. Second sequence	Free Chlorine	1.50	7.50	12.0	82	56,000	682.9	682.9	1,024.4	40.8	25.11	25.26
3/14/2024	1. First sequence	Free Chlorine	0.40	7.50	13.0	1,884	56,000	29.7	20.8	8.3	33.0	0.25	
	2. Second sequence	Free Chlorine	2.10	7.40	13.0	92	56,000	608.7	608.7	1,278.3	38.6	33.12	33.37
3/15/2024	1. First sequence	Free Chlorine	0.00	7.60	13.0	2,048	56,000	27.3	19.1	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.20	7.50	13.0	67	56,000	835.8	835.8	1,838.8	40.5	45.40	45.40
3/18/2024	1. First sequence	Free Chlorine	0.30	7.70	12.0	1,971	56,000	28.4	19.9	6.0	38.4	0.16	
	2. Second sequence	Free Chlorine	2.30	7.60	12.0	93	56,000	602.2	602.2	1,384.9	46.2	29.98	30.14
3/19/2024	1. First sequence	Free Chlorine	0.40	7.70	11.0	2,008	56,000	27.9	19.5	7.8	41.6	0.19	
	2. Second sequence	Free Chlorine	2.10	7.60	11.0	70	56,000	800.0	800.0	1,680.0	49.0	34.29	34.48
3/20/2024	1. First sequence	Free Chlorine	0.40	7.60	11.0	2,125	56,000	26.4	18.4	7.4	40.1	0.18	
	2. Second sequence	Free Chlorine	2.00	7.50	11.0	112	56,000	500.0	500.0	1,000.0	46.6	21.46	21.64
3/21/2024	1. First sequence	Free Chlorine	0.20	7.70	12.0	1,950	56,000	28.7	20.1	4.0	38.4	0.10	
	2. Second sequence	Free Chlorine	2.00	7.60	12.0	109	56,000	513.8	513.8	1,027.5	44.8	22.94	23.04
3/22/2024	1. First sequence	Free Chlorine	0.00	7.60	12.0	2,172	56,000	25.8	18.0	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.10	7.60	12.0	98	56,000	571.4	571.4	1,200.0	45.3	26.49	26.49
3/25/2024	1. First sequence	Free Chlorine	0.00	7.70	11.0	1,888	56,000	29.7	20.8	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.40	7.60	11.0	56	56,000	1,000.0	1,000.0	2,400.0	50.5	47.52	47.52
3/26/2024	1. First sequence	Free Chlorine	0.00	7.70	12.0	2,016	56,000	27.8	19.4	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.00	7.60	12.0	58	56,000	965.5	965.5	1,931.0	44.8	43.10	43.10
	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!	
	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!
	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.	#DIV/0!	
											Max.	#DIV/0!	