

CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 1

System ID **250008-02**
Month of **January 2019**

1. Total number of turbidity measurements taken during the month. CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. 100.0%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	2.4	7	2.5	13	2.5	19	2.7	25	2.8
2	2.8	8	2.7	14	2.6	20	2.8	26	2.8
3	2.9	9	2.4	15	2.7	21	2.2	27	2.9
4	1.5	10	2.1	16	2.6	22	2.1	28	2.6
5	2.0	11	2.4	17	2.6	23	2.4	29	2.5
6	2.0	12	2.4	18	2.2	24	3.2	30	2.6
								31	2.1

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. 126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected. NONE

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID
Month Of

250008-02
January 2019

Jan 2019	TURBIDITIES (NTU)		
	RAW	SETTLED	FILTERS
1	24.8	1.09	0.11
2	23.4	1.25	0.14
3	30.4	1.57	0.19
4	27.1	1.38	0.20
5	48.5	1.59	0.20
6	40.2	0.88	0.16
7	31.3	0.90	0.21
8	40.8	1.18	0.14
9	40.6	1.32	0.17
10	64.4	1.56	0.19
11	30.1	1.14	0.16
12	27.6	1.17	0.18
13	31.4	1.02	0.16
14	28.0	1.25	0.19
15	26.2	1.25	0.14
16	26.6	1.23	0.21
17	26.9	1.10	0.11
18	27.3	0.91	0.12
19	26.3	1.06	0.13
20	25.9	0.75	0.15
21	25.9	1.20	0.21
22	24.5	1.46	0.16
23	23.9	0.99	0.16
24	24.2	0.90	0.14
25	24.3	0.93	0.14
26	23.2	1.29	0.16
27	22.1	1.08	0.15
28	21.6	1.15	0.16
29	28.7	0.96	0.15
30	27.0	0.99	0.14
31	23.9	1.17	0.12
MIN	21.6	0.75	0.11
MAX	64.4	1.59	0.21
AVG	29.6	1.15	0.13

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID
Month Of

250008-02
January 2019

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.09	0.07	0.09	0.10	0.10	0.11
2	0.11	0.14	0.12	0.10	0.09	0.11
3	0.12	0.12	0.09	0.11	0.19	0.19
4	0.17	0.11	0.11	0.12	0.15	0.20
5	0.19	0.15	0.18	0.20	0.15	0.12
6	0.12	0.11	0.12	0.12	0.12	0.16
7	0.18	0.21	0.20	0.15	0.15	0.15
8	0.14	0.13	0.12	0.11	0.12	0.13
9	0.12	0.11	0.13	0.12	0.13	0.17
10	0.16	0.19	0.15	0.12	0.11	0.15
11	0.15	0.11	0.12	0.12	0.13	0.16
12	0.16	0.13	0.18	0.13	0.14	0.16
13	0.15	0.13	0.14	0.14	0.14	0.16
14	0.15	0.16	0.17	0.19	0.19	0.14
15	0.14	0.13	0.12	0.11	0.11	0.13
16	0.12	0.17	0.20	0.21	0.11	0.11
17	0.11	0.09	0.11	0.09	0.09	0.11
18	0.11	0.10	0.09	0.10	0.10	0.12
19	0.12	0.10	0.12	0.11	0.11	0.13
20	0.14	0.14	0.14	0.15	0.15	0.12
21	0.14	0.15	0.15	0.21	0.15	0.15
22	0.15	0.15	0.13	0.16	0.14	0.14
23	0.12	0.16	0.10	0.10	0.10	0.14
24	0.14	0.13	0.13	0.12	0.12	0.13
25	0.13	0.09	0.14	0.14	0.14	0.13
26	0.16	0.14	0.12	0.12	0.12	0.15
27	0.15	0.14	0.09	0.09	0.10	0.13
28	0.13	0.16	0.10	0.12	0.13	0.15
29	0.15	0.15	0.12	0.10	0.12	0.15
30	0.14	0.11	0.11	0.10	0.09	0.10
31	0.12	0.11	0.12	0.11	0.09	0.12
MIN	0.09	0.07	0.09	0.09	0.09	0.10
MAX	0.19	0.21	0.20	0.21	0.19	0.20
AVG	0.14	0.13	0.13	0.13	0.13	0.14

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID
Month Of

250008-02
January 2019

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.0	3.0	2.4	2.9	2.7	2.7
2	2.8	2.8	2.9	2.9	2.9	2.9
3	2.9	2.9	2.9	2.9	3.0	2.9
4	2.8	2.8	2.7	2.1	1.5	2.3
5	2.6	2.8	2.8	2.7	2.0	2.0
6	2.0	2.6	2.8	2.4	2.1	2.1
7	2.5	2.5	3.2	3.4	3.5	3.6
8	2.7	3.6	3.4	2.8	2.8	2.7
9	2.7	2.6	2.7	2.7	2.5	2.4
10	2.1	2.1	2.3	2.2	2.4	2.3
11	2.4	2.4	2.4	2.5	2.5	2.4
12	2.4	2.6	2.5	2.5	2.4	2.5
13	2.5	2.6	2.6	2.6	2.7	3.0
14	3.0	2.9	3.0	2.6	2.6	2.7
15	2.8	2.7	2.7	2.8	3.0	3.0
16	2.9	2.7	2.6	2.7	2.8	2.7
17	2.7	2.7	2.8	2.7	2.6	2.6
18	2.6	2.5	2.6	2.8	2.2	2.4
19	2.7	2.8	2.8	2.9	2.8	2.8
20	2.9	2.9	2.8	2.8	2.8	2.8
21	2.8	2.8	2.6	2.8	2.6	2.2
22	2.2	2.3	2.3	2.1	2.9	2.8
23	2.4	3.0	3.2	3.2	3.2	3.2
24	3.2	3.2	3.2	3.2	3.2	3.3
25	3.0	3.0	2.8	2.9	3.0	2.8
26	2.8	2.8	3.0	3.0	3.1	3.1
27	3.1	2.9	2.9	2.9	2.9	3.0
28	2.9	2.7	2.7	2.7	2.7	2.6
29	2.8	2.9	3.0	3.1	2.9	2.5
30	2.6	2.7	2.8	2.8	2.8	2.8
31	2.7	2.7	2.3	3.4	2.1	2.9
MIN	2.0	2.1	2.3	2.1	1.5	2.0
MAX	3.2	3.6	3.4	3.4	3.5	3.6
AVG	2.7	2.7	2.8	2.8	2.7	2.7

CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 2

System ID **250008-02**
Month of **January 2019**

1. Total number of turbidity measurements taken during the month. CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. 99.8%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	1.9	7	1.8	13	2.2	19	3.1	25	2.0
2	1.9	8	2.0	14	2.3	20	2.4	26	2.6
3	2.5	9	2.2	15	2.2	21	2.5	27	2.5
4	1.6	10	1.8	16	2.4	22	1.5	28	2.0
5	1.5	11	1.8	17	1.7	23	2.3	29	2.0
6	1.1	12	1.9	18	2.9	24	2.7	30	2.1
								31	1.8

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. 126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected. NONE

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID
 Month Of

250008-02
 January 2019

Jan 2019	TURBIDITIES (NTU)	
	RAW	FINISHED
1	24.8	0.12
2	23.4	0.13
3	30.4	0.16
4	27.1	0.19
5	48.5	0.31
6	40.2	0.22
7	31.3	0.24
8	40.8	0.20
9	40.6	0.21
10	64.4	0.32
11	30.1	0.32
12	27.6	0.19
13	31.4	0.28
14	28.0	0.24
15	26.2	0.35
16	26.6	0.27
17	26.9	0.29
18	27.3	0.22
19	26.3	0.29
20	25.9	0.29
21	25.9	0.20
22	24.5	0.24
23	23.9	0.24
24	24.2	0.20
25	24.3	0.30
26	23.2	0.43
27	22.1	0.19
28	21.6	0.27
29	28.7	0.21
30	27.0	0.30
31	23.9	0.20
MIN	21.6	0.12
MAX	64.4	0.43
AVG	29.6	0.25

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID
 Month Of

250008-02
 January 2019

Higher finished
 turbidities due to post-
 treatment pH adjustment
 with lime.

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.12	0.09	0.09	0.09	0.06	0.09
2	0.11	0.11	0.11	0.11	0.13	0.13
3	0.12	0.12	0.12	0.12	0.13	0.16
4	0.15	0.13	0.10	0.11	0.16	0.19
5	0.19	0.17	0.28	0.31	0.14	0.17
6	0.15	0.15	0.15	0.17	0.21	0.22
7	0.24	0.22	0.20	0.22	0.20	0.21
8	0.20	0.16	0.18	0.19	0.19	0.18
9	0.19	0.19	0.18	0.20	0.21	0.21
10	0.18	0.18	0.32	0.20	0.15	0.18
11	0.19	0.32	0.19	0.20	0.20	0.20
12	0.19	0.17	0.16	0.16	0.17	0.18
13	0.18	0.17	0.27	0.22	0.22	0.28
14	0.19	0.23	0.20	0.23	0.24	0.21
15	0.20	0.21	0.21	0.28	0.35	0.16
16	0.16	0.18	0.17	0.27	0.16	0.16
17	0.27	0.29	0.24	0.12	0.10	0.10
18	0.07	0.07	0.20	0.22	0.09	0.21
19	0.22	0.27	0.29	0.25	0.24	0.19
20	0.20	0.21	0.22	0.29	0.21	0.18
21	0.19	0.18	0.18	0.20	0.18	0.18
22	0.17	0.17	0.17	0.19	0.18	0.24
23	0.17	0.24	0.18	0.18	0.18	0.16
24	0.16	0.19	0.17	0.18	0.19	0.20
25	0.18	0.19	0.22	0.30	0.22	0.19
26	0.43	0.16	0.30	0.37	0.24	0.23
27	0.19	0.18	0.18	0.15	0.10	0.12
28	0.27	0.12	0.14	0.19	0.25	0.22
29	0.18	0.15	0.14	0.12	0.21	0.21
30	0.21	0.30	0.20	0.20	0.14	0.18
31	0.20	0.18	0.17	0.14	0.10	0.10
MIN	0.07	0.07	0.09	0.09	0.06	0.09
MAX	0.43	0.32	0.32	0.37	0.35	0.28
AVG	0.19	0.18	0.19	0.20	0.18	0.18

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID
Month Of

250008-02
January 2019

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	2.5	2.6	2.7	2.8	2.3	1.9
2	1.9	2.1	2.4	2.4	2.4	2.4
3	2.5	2.6	2.7	2.6	2.7	2.7
4	3.0	2.8	2.2	1.6	2.6	2.3
5	2.0	2.5	2.5	2.5	2.4	1.5
6	2.5	2.5	2.1	2.1	2.1	1.1
7	1.8	2.0	2.7	2.4	2.0	2.7
8	3.0	2.0	2.4	2.3	2.5	2.6
9	2.4	2.7	2.7	2.7	2.3	2.2
10	2.1	2.1	2.3	2.1	2.5	1.8
11	2.0	2.3	2.3	2.8	1.9	1.8
12	1.9	2.1	2.2	2.4	2.3	2.3
13	2.4	2.7	2.6	2.4	2.2	2.3
14	2.3	2.3	2.3	2.3	2.3	2.4
15	2.4	2.2	2.2	2.2	2.4	2.6
16	2.7	2.6	2.4	2.5	2.6	2.6
17	3.0	2.0	2.5	1.7	2.6	3.4
18	3.3	3.0	3.0	2.9	2.9	3.0
19	3.1	3.4	3.2	3.2	3.2	3.1
20	2.5	2.5	2.7	2.5	2.6	2.4
21	2.7	2.8	2.8	2.8	2.6	2.5
22	2.5	2.7	2.5	2.4	1.5	2.0
23	2.5	2.3	2.3	2.7	2.7	2.7
24	2.8	2.8	2.7	2.7	2.7	2.7
25	2.8	2.4	2.3	2.4	2.0	2.7
26	2.8	2.9	2.6	2.7	2.6	2.6
27	2.6	2.8	2.6	2.5	2.6	2.5
28	2.4	2.0	2.7	2.0	2.5	2.7
29	2.2	2.3	2.6	2.8	2.2	2.0
30	2.3	2.1	2.4	3.5	2.4	2.6
31	2.6	2.7	2.7	1.8	2.1	2.8
MIN	1.8	2.0	2.1	1.6	1.5	1.1
MAX	3.3	3.4	3.2	3.5	3.2	3.4
AVG	2.5	2.5	2.5	2.5	2.4	2.4

CITY OF JACKSON
J. H. Fewell Water Treatment Plant
Monthly Report

System ID **250008-01**
Month of **January 2019**

1. Total number of turbidity measurements taken during the month. CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU. 98.8%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation. NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months. NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	2.6	7	2.4	13	2.6	19	3.2	25	2.7
2	3.1	8	2.9	14	3.5	20	2.7	26	2.9
3	2.8	9	2.9	15	2.9	21	3.3	27	3.3
4	2.7	10	2.4	16	2.6	22	2.7	28	3.3
5	3.2	11	2.7	17	2.9	23	2.9	29	3.1
6	2.7	12	2.8	18	2.5	24	3.1	30	2.6
								31	3.5

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system. NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected. 126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected. NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected. NONE

City of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Turbidity Compliance Report

System ID
MONTH

250008-01
January 2019

Jan 2019	TURBIDITIES (NTU)			
	RAW	SETTLED	FILTER	HS #1
1	29.1	0.82	0.14	0.22
2	31.4	0.57	0.16	0.30
3	38.2	0.51	0.18	0.36
4	40.3	0.93	0.20	0.26
5	41.0	0.57	0.19	0.25
6	40.2	0.53	0.17	0.25
7	46.9	1.18	0.17	0.29
8	40.5	0.62	0.17	0.22
9	40.6	0.50	0.18	0.28
10	41.3	1.61	0.19	0.35
11	41.8	1.71	0.11	0.29
12	36.5	0.58	0.26	0.20
13	39.7	1.20	0.16	0.20
14	43.2	1.28	0.16	0.17
15	39.3	1.02	0.18	0.26
16	33.2	1.43	0.18	0.26
17	31.9	0.70	0.19	0.22
18	33.1	0.75	0.20	0.22
19	31.4	0.80	0.18	0.22
20	59.2	0.66	0.20	0.22
21	52.5	1.10	0.20	0.13
22	30.9	0.34	0.14	0.10
23	32.3	0.88	0.20	0.12
24	37.9	0.59	0.17	0.31
25	35.4	0.44	0.19	0.12
26	33.9	0.50	0.22	0.14
27	32.1	0.35	0.16	0.13
28	28.7	0.66	0.21	0.14
29	38.8	0.77	0.15	0.12
30	39.4	0.78	0.17	0.16
31	36.9	0.36	0.06	0.13
MIN	28.7	0.34	0.06	0.10
MAX	59.2	1.71	0.26	0.36
AVG	38.0	0.80	0.18	0.19

City of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Turbidity Compliance

System ID
MONTH

250008-01
January 2019

Higher finished
turbidities due to post-
treatment lime addition

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.20	0.16	0.16	0.16	0.14	0.22
2	0.24	0.29	0.30	0.23	0.29	0.30
3	0.28	0.31	0.36	0.34	0.26	0.26
4	0.26	0.26	0.26	0.26	0.26	0.25
5	0.25	0.25	0.25	0.25	0.25	0.25
6	0.25	0.25	0.25	0.25	0.25	0.22
7	0.23	0.29	0.29	0.21	0.18	0.15
8	0.13	0.13	0.22	0.20	0.15	0.14
9	0.17	0.19	0.28	0.22	0.27	0.28
10	0.33	0.35	0.30	0.29	0.29	0.29
11	0.29	0.29	0.29	0.29	0.20	0.20
12	0.20	0.20	0.20	0.20	0.20	0.20
13	0.20	0.20	0.20	0.20	0.17	0.17
14	0.17	0.17	0.17	0.17	0.17	0.17
15	0.17	0.17	0.17	0.26	0.26	0.26
16	0.26	0.26	0.26	0.26	0.21	0.21
17	0.21	0.21	0.21	0.22	0.22	0.22
18	0.22	0.22	0.22	0.22	0.22	0.22
19	0.22	0.22	0.22	0.22	0.22	0.22
20	0.22	0.22	0.22	0.10	0.12	0.12
21	0.12	0.12	0.13	0.12	0.11	0.10
22	0.09	0.09	0.10	0.10	0.10	0.09
23	0.10	0.12	0.10	0.12	0.11	0.10
24	0.10	0.11	0.12	0.31	0.11	0.11
25	0.12	0.12	0.11	0.11	0.09	0.09
26	0.09	0.10	0.14	0.13	0.12	0.11
27	0.11	0.12	0.11	0.13	0.11	0.10
28	0.13	0.13	0.13	0.14	0.12	0.11
29	0.10	0.10	0.11	0.11	0.12	0.12
30	0.14	0.16	0.16	0.16	0.13	0.11
31	0.10	0.10	0.13	0.12	0.11	0.10
MIN	0.09	0.09	0.10	0.10	0.09	0.09
MAX	0.33	0.35	0.36	0.34	0.29	0.30
AVG	0.18	0.19	0.20	0.20	0.18	0.18

City Of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Disinfectant Compliance

System ID
MONTH

250008-01
January 2019

Jan 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.1	2.8	3.2	2.9	2.6	3.0
2	3.1	3.1	3.1	3.1	3.1	3.1
3	3.0	2.9	2.9	2.9	2.8	2.8
4	2.7	2.7	2.7	2.8	3.2	3.2
5	3.2	3.2	3.3	3.2	3.2	3.2
6	3.2	3.1	3.1	2.7	2.9	3.1
7	3.2	3.1	3.2	2.4	3.1	2.8
8	2.9	2.9	3.1	3.1	3.1	3.0
9	2.9	2.9	3.2	3.1	3.2	3.1
10	3.4	2.8	2.4	2.9	2.7	2.6
11	2.7	3.2	2.8	2.7	2.9	3.0
12	2.9	2.9	2.9	3.0	2.9	2.8
13	2.7	2.6	2.8	3.3	3.6	3.9
14	3.5	3.5	3.5	3.9	3.7	3.9
15	3.9	3.9	3.0	3.0	3.1	2.9
16	2.7	2.6	3.3	3.4	3.6	3.8
17	3.8	2.9	3.7	3.8	3.8	3.8
18	3.9	3.8	2.9	2.7	2.7	2.5
19	3.7	3.7	3.8	3.2	3.3	3.7
20	3.2	3.8	3.3	2.8	2.7	3.6
21	3.4	3.8	3.6	3.5	3.4	3.3
22	3.4	2.7	3.6	3.5	3.4	3.4
23	3.4	2.9	3.2	3.2	3.2	3.3
24	3.3	3.2	3.1	3.1	3.2	3.2
25	3.3	3.3	2.8	2.7	3.2	3.2
26	3.2	3.2	2.9	3.0	3.2	3.2
27	3.4	3.3	3.3	3.3	3.4	3.3
28	3.4	3.4	3.4	3.4	3.3	3.4
29	3.4	3.4	3.3	3.3	3.3	3.1
30	2.9	2.6	3.5	3.5	3.7	3.7
31	3.6	3.6	3.6	3.5	3.5	3.5
MIN	2.7	2.6	2.4	2.4	2.6	2.5
MAX	3.9	3.9	3.8	3.9	3.8	3.9
AVG	3.2	3.2	3.2	3.1	3.2	3.2

**CITY OF JACKSON
DISTRIBUTION SYSTEM DISINFECTANT DATA**

System ID **250008**
Month of **January 2019**

	No. of sites, disinfectant residual measured (a)	No. of sites, no disinfectant measured, HPC measured (b)	No. of sites, disinfectant residual not detected, no HPC measured (c)	No. of sites, disinfectant residual not detected. HPC> 500/ml (d)	No. of sites, disinfectant residual not measured. HPC > 500/ml (e)
DATE	COL 2	COL 3	COL 4	COL 5	COL 6
1					
2	6				
3					
4					
5					
6					
7	52				
8	52				
9	9				
10	7				
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

Total	126	0	0	0	0
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V = (c+d+e)/(a+b)*100

V = 0

**CITY OF JACKSON
CHLORINE DIOXIDE COMPLIANCE**

Jan-19	SYSTEM ID: 250008-02		SYSTEM ID: 250008-01	
	O.B. CURTIS		J. H. FEWELL	
	ClO ₂	ClO [·]	ClO ₂	ClO [·]
1	OFF	OFF	OFF	OFF
2	OFF	OFF	OFF	OFF
3	OFF	OFF	OFF	OFF
4	OFF	OFF	OFF	OFF
5	OFF	OFF	OFF	OFF
6	OFF	OFF	OFF	OFF
7	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	OFF
9	OFF	OFF	OFF	OFF
10	OFF	OFF	OFF	OFF
11	OFF	OFF	OFF	OFF
12	OFF	OFF	OFF	OFF
13	OFF	OFF	OFF	OFF
14	OFF	OFF	OFF	OFF
15	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF
17	OFF	OFF	OFF	OFF
18	OFF	OFF	OFF	OFF
19	OFF	OFF	OFF	OFF
20	OFF	OFF	OFF	OFF
21	OFF	OFF	OFF	OFF
22	OFF	OFF	OFF	OFF
23	OFF	OFF	OFF	OFF
24	OFF	OFF	OFF	OFF
25	OFF	OFF	OFF	OFF
26	OFF	OFF	OFF	OFF
27	OFF	OFF	OFF	OFF
28	OFF	OFF	OFF	OFF
29	OFF	OFF	OFF	OFF
30	OFF	OFF	OFF	OFF
31	OFF	OFF	OFF	OFF

DISTRIBUTION SITES			
DATE	SITE	ClO ₂	ClO [·]
	Olympia		
	Boling St		
	John Hopkins		

**CITY OF JACKSON
TOC REMOVAL SUMMARY**

2019

TOC Table- Required % Removal of TOC			
Source Water TOC (ppm)	Source Water Alkalinity, ppm as CaCO ₃		
	0-60	>60-120	>120
>2.0 to 4.0	35.0%	25.0%	15.0%
>4.0 to 8.0	45.0%	35.0%	25.0%
>8.0	50.0%	40.0%	30.0%

$$\% \text{ ACTUAL TOC REMOVED} = \frac{\text{RAW TOC} - \text{FINISHED TOC}}{\text{RAW TOC}} \times 100\%$$

$$\text{TOC REMOVAL RATIO} = \frac{\% \text{ ACTUAL TOC REMOVED}}{\text{REQUIRED TOC REMOVAL}}$$

Date	Water Treatment Plant	TOC Summary			TOC % Removal Summary		
		Source Water Alkalinity (ppm)	Source Water TOC (ppm)	Treated Water TOC (ppm)	Actual TOC Removed (%)	Required TOC Removal (%)	TOC Removal Ratio
1/3/2019	OBC HS1	11	12.9	2.1	83.7	50.0	1.67
	OBC HS2	11	12.9	3.5	72.9	50.0	1.46
	JHF HS1	12	12.4	4.6	62.9	50.0	1.26
1/7/2019	OBC HS1	10	12.8	2.8	78.1	50.0	1.56
	OBC HS2	10	12.8	2.8	78.1	50.0	1.56
	JHF HS1	19	12.8	3.0	76.6	50.0	1.53
1/14/2019	OBC HS1	8	13.8	3.7	73.2	50.0	1.46
	OBC HS2	8	13.8	4.4	68.1	50.0	1.36
	JHF HS1	9	12.7	4.0	68.5	50.0	1.37
1/22/2019	OBC HS1	9	10.6	1.4	86.8	50.0	1.74
	OBC HS2	9	10.6	1.7	84.0	50.0	1.68
	JHF HS1	8	10.9	1.7	84.4	50.0	1.69
1/28/2019	OBC HS1	7	10.0	3.3	67.0	50.0	1.34
	OBC HS2	7	10.0	4.6	54.0	50.0	1.08
	JHF HS1	10	10.8	4.1	62.0	50.0	1.24
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
RUNNING ANNUAL AVERAGE	OBC HS1						1.56
	OBC HS2						1.43
	JHF HS1						1.42
TOTAL COMBINED RUNNING ANNUAL AVERAGE							1.47

**CITY OF JACKSON
CORROSION CONTROL DATA**

December 2018 DATE / SHIFT		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
1	0700 - 1500	9.3	33	31	9.3	69	17
	1500 - 2300	9.1	17	17	9.0	68	21
	2300 - 0700	9.3	31	30	9.7	68	16
2	0700 - 1500	9.2	32	30	9.6	66	20
	1500 - 2300	9.3	18	17	9.4	92	19
	2300 - 0700	9.3	20	18	9.3	65	16
3	0700 - 1500	9.4	31	29	9.4	75	18
	1500 - 2300	9.6	27	11	9.6	96	24
	2300 - 0700	9.3	24	14	9.7	72	18
4	0700 - 1500	9.5	24	17	9.7	74	20
	1500 - 2300	9.7	27	15	9.7	84	22
	2300 - 0700	9.7	26	16	9.6	68	19
5	0700 - 1500	9.6	25	17	9.6	69	17
	1500 - 2300	9.4	30	28	9.3	73	16
	2300 - 0700	9.2	26	19	9.6	66	18
6	0700 - 1500	9.5	29	24	9.4	78	20
	1500 - 2300	9.6	31	30	9.2	81	15
	2300 - 0700	10.0	33	31	9.6	84	24
7	0700 - 1500	9.8	31	29	9.4	71	21
	1500 - 2300	9.6	30	28	9.4	53	19
	2300 - 0700	9.4	30	26	9.7	48	20
8	0700 - 1500	9.5	27	24	9.4	80	20
	1500 - 2300	9.5	26	17	9.5	80	16
	2300 - 0700	9.5	31	28	9.2	68	15
9	0700 - 1500	9.7	32	30	9.6	55	19
	1500 - 2300	9.8	18	18	9.4	70	21
	2300 - 0700	9.8	20	19	9.5	71	16
10	0700 - 1500	9.7	23	20	9.1	66	18
	1500 - 2300	9.7	32	17	9.5	70	18
	2300 - 0700	9.7	30	18	9.8	71	20
11	0700 - 1500	9.7	23	14	9.3	66	21
	1500 - 2300	9.5	24	19	9.6	65	20
	2300 - 0700	9.7	28	23	10.0	66	20

**CITY OF JACKSON
CORROSION CONTROL DATA**

December 2018 DATE / SHIFT		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
12	0700 - 1500	9.7	22	12	9.3	71	15
	1500 - 2300	9.7	21	14	9.5	72	17
	2300 - 0700	9.7	25	18	9.7	64	17
13	0700 - 1500	9.8	29	24	9.1	58	17
	1500 - 2300	9.7	31	26	9.4	62	19
	2300 - 0700	9.7	33	30	9.3	77	18
14	0700 - 1500	9.9	33	28	9.5	59	20
	1500 - 2300	9.9	32	30	9.7	59	23
	2300 - 0700	9.7	30	29	9.8	69	16
15	0700 - 1500	9.4	31	29	9.8	54	20
	1500 - 2300	10.1	22	12	9.6	70	20
	2300 - 0700	9.5	33	30	9.7	60	16
16	0700 - 1500	9.7	32	30	9.5	59	15
	1500 - 2300	9.5	22	12	9.4	67	17
	2300 - 0700	9.6	25	15	9.5	55	17
17	0700 - 1500	9.3	30	28	9.5	53	16
	1500 - 2300	9.5	26	14	9.3	77	19
	2300 - 0700	9.5	24	16	9.4	60	14
18	0700 - 1500	8.3	27	17	9.4	61	21
	1500 - 2300	8.1	20	13	9.5	66	18
	2300 - 0700	8.2	21	15	9.3	61	20
19	0700 - 1500	9.6	21	13	9.2	65	21
	1500 - 2300	9.7	22	12	10.0	79	17
	2300 - 0700	9.7	23	14	9.3	73	18
20	0700 - 1500	9.5	30	25	10.4	80	24
	1500 - 2300	9.9	32	27	10.0	57	15
	2300 - 0700	9.9	31	29	10.0	58	16
21	0700 - 1500	10.0	30	26	9.8	74	18
	1500 - 2300	10.0	32	29	9.9	66	26
	2300 - 0700	9.8	31	30	9.8	74	18
22	0700 - 1500	9.9	32	30	9.6	65	15
	1500 - 2300	10.0	33	30	9.6	72	18
	2300 - 0700	9.4	31	30	9.7	67	10

**CITY OF JACKSON
CORROSION CONTROL DATA**

December 2018 DATE / SHIFT		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
23	0700 - 1500	9.6	34	29	9.1	60	15
	1500 - 2300	9.5	32	30	9.6	81	16
	2300 - 0700	9.3	30	28	9.6	86	14
24	0700 - 1500	9.6	32	30	9.3	68	12
	1500 - 2300	9.7	31	16	9.6	70	13
	2300 - 0700	9.8	32	20	9.5	75	14
25	0700 - 1500	9.2	30	26	9.9	74	23
	1500 - 2300	9.6	23	14	9.7	74	15
	2300 - 0700	9.7	25	16	9.7	69	16
26	0700 - 1500	9.8	28	21	9.7	81	14
	1500 - 2300	10.0	33	28	9.9	77	12
	2300 - 0700	10.0	32	27	9.4	66	15
27	0700 - 1500	9.1	34	31	9.4	65	16
	1500 - 2300	9.6	32	28	9.6	69	15
	2300 - 0700	9.5	34	30	9.2	81	14
28	0700 - 1500	9.7	35	32	9.3	70	17
	1500 - 2300	9.7	34	31	9.4	69	19
	2300 - 0700	9.7	31	30	9.4	65	18
29	0700 - 1500	9.9	31	34	9.2	74	13
	1500 - 2300	9.0	23	10	9.4	74	13
	2300 - 0700	9.7	29	28	9.3	73	14
30	0700 - 1500	9.3	32	35	10.1	67	18
	1500 - 2300	9.8	12	24	9.4	74	18
	2300 - 0700	9.9	25	28	9.6	71	16
31	0700 - 1500	9.9	29	35	9.3	68	20
	1500 - 2300	9.1	28	13	9.4	84	15
	2300 - 0700	9.2	23	33	9.5	71	14
MONTHLY MIN		8.1	12	10	9.0	48	10
MONTHLY MAX		10.1	35	35	10.4	96	26
MONTHLY AVG		9.6	28	23	9.5	70	18

1.18.2019 Low pHs due to Membrane Lime pump issues

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-02 Month of January 2019

Total Off-Specification Volume (MG) = 0

Date	UV Reactor #1					UV Reactor #2					UV Reactor #3				
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)
12/1/2018	23.6	2728472	47	2.7	85	23.2	1817014	117	1.8	85	23.7	2559375	49	2.6	87
12/2/2018	24.0	2644792	38	2.6	85	24.0	2186806	34	2.2	85	24.0	2463889	40	2.5	90
12/3/2018	23.1	2650694	37	2.7	85	24.0	2147917	35	2.1	85	24.0	2573958	40	2.6	90
12/4/2018	23.7	2720139	38	2.7	85	23.2	2202778	102	2.2	85	23.2	2503125	52	2.5	88
12/5/2018	24.0	2700000	37	2.7	85	24.0	2330208	33	2.3	85	24.0	2517014	40	2.5	90
12/6/2018	23.7	2520139	38	2.5	85	22.8	2200694	133	2.2	85	23.7	2342014	63	2.3	88
12/7/2018	23.7	2592014	48	2.6	85	23.6	2305208	66	2.3	85	23.7	2416319	62	2.4	84
12/8/2018	24.0	2536806	38	2.5	85	24.0	2302778	32	2.3	85	24.0	2356597	40	2.4	89
12/9/2018	23.7	2480208	39	2.5	85	23.3	2246181	78	2.2	85	23.5	2285069	64	2.3	85
12/10/2018	23.9	2266551	41	2.3	85	23.9	1661673	22	1.7	85	23.9	2096864	44	2.1	89
12/11/2018	24.0	2227778	42	2.2	85						24.0	2055208	44	2.1	90
12/12/2018	24.0	2357986	39	2.4	85						24.0	2187153	41	2.2	89
12/13/2018	23.5	2267361	39	2.3	85						24.0	2155208	41	2.2	88
12/14/2018	24.0	2526736	37	2.5	85						23.8	2312153	49	2.3	84
12/15/2018	23.1	2537500	35	2.5	85						24.0	2462847	37	2.5	89
12/16/2018	24.0	2502431	38	2.5	85						24.0	2326042	39	2.3	89
12/17/2018	24.0	2764583	35	2.8	85						22.9	2436806	92	2.4	86
12/18/2018	24.0	2554167	36	2.6	85						24.0	2372822	37	2.4	89
12/19/2018	24.0	2469444	37	2.5	85						24.0	2292014	39	2.3	89
12/20/2018	23.8	2477778	38	2.5	85						23.7	2298611	62	2.3	85
12/21/2018	23.5	2445139	38	2.4	85						23.4	2271181	51	2.3	86
12/22/2018	24.0	2297917	40	2.3	85						24.0	2120139	41	2.1	89
12/23/2018	24.0	2326736	39	2.3	85						24.0	2133333	41	2.1	89
12/24/2018	24.0	2336458	40	2.3	85						24.0	2161458	41	2.2	89
12/25/2018	23.4	2405208	40	2.4	85						23.2	2243056	62	2.2	86
12/26/2018	24.0	2425347	40	2.4	85						24.0	2247569	43	2.2	90
12/27/2018	24.0	2435417	41	2.4	85						24.0	2261806	44	2.3	90
12/28/2018	23.7	2408333	39	2.4	85						20.1	2239931	59	2.2	88
12/29/2018	24.0	2503125	38	2.5	85						24.0	2319444	39	2.3	89
12/30/2018	24.0	2839931	36	2.8	85						24.0	2638889	37	2.6	89
12/31/2018	24.0	2882292	35	2.9	85						24.0	2681250	37	2.7	90

PLC malfunction on UV #2 being troubleshot by contractor. UV reactor is 100% functional but PLC is not communicating with Historian

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-02

Month of January 2019

Total Off-Specification Volume (MG) = 0

Date	UV Reactor #4					UV Reactor #5					UV Reactor #6				
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)
12/1/2018	0.0	0	0	0.0	0	23.4	2286806	75	2.3	93	23.5	2781597	44	2.8	85
12/2/2018	0.0	0	0	0.0	0	24.0	2205208	68	2.2	96	24.0	2690972	46	2.7	85
12/3/2018	0.0	0	0	0.0	0	24.0	2146875	73	2.1	96	24.0	2823958	45	2.8	85
12/4/2018	0.0	0	0	0.0	0	23.0	2339583	91	2.3	95	23.4	2752431	45	2.8	79
12/5/2018	0.0	0	0	0.0	0	23.4	2288542	94	2.3	94	24.0	2751736	46	2.8	84
12/6/2018	0.0	0	0	0.0	0	24.0	2235069	68	2.2	96	23.6	2548958	47	2.5	84
12/7/2018	0.0	0	0	0.0	0	23.7	1879514	115	1.9	91	23.7	2654167	46	2.7	83
12/8/2018	0.0	0	0	0.0	0	24.0	1862153	87	1.9	97	24.0	2596181	47	2.6	84
12/9/2018	0.0	0	0	0.0	0	22.8	2086111	108	2.1	92	23.6	2522569	48	2.5	84
12/10/2018	0.0	0	0	0.0	0	23.9	2420558	70	2.4	96	23.9	2320209	51	2.3	83
12/11/2018	0.0	0	0	0.0	0	24.0	2415972	79	2.4	98	24.0	2281250	52	2.3	84
12/12/2018	0.0	0	0	0.0	0	24.0	2282292	77	2.3	97	24.0	2413194	48	2.4	83
12/13/2018	0.0	0	0	0.0	0	24.0	2274653	77	2.3	97	24.0	2379514	49	2.4	84
12/14/2018	0.0	0	0	0.0	0	23.5	2294792	91	2.3	91	23.6	2542014	45	2.5	83
12/15/2018	0.0	0	0	0.0	0	24.0	2125694	83	2.1	98	24.0	2696528	46	2.7	85
12/16/2018	0.0	0	0	0.0	0	24.0	2258681	80	2.3	98	24.0	2549306	47	2.5	85
12/17/2018	0.0	0	0	0.0	0	24.0	2020139	82	2.0	97	22.8	2634028	42	2.6	83
12/18/2018	0.0	0	0	0.0	0	23.1	2216783	99	2.2	70	24.0	2597213	46	2.6	85
12/19/2018	0.0	0	0	0.0	0	24.0	2166319	80	2.2	98	24.0	2523958	48	2.5	84
12/20/2018	0.0	0	0	0.0	0	23.1	2188889	96	2.2	94	23.7	2521181	48	2.5	85
12/21/2018	0.0	0	0	0.0	0	23.6	2340278	92	2.3	94	23.6	2482639	49	2.5	86
12/22/2018	0.0	0	0	0.0	0	24.0	2473611	74	2.5	98	24.0	2345139	50	2.3	84
12/23/2018	0.0	0	0	0.0	0	24.0	2415278	79	2.4	98	24.0	2372222	49	2.4	84
12/24/2018	0.0	0	0	0.0	0	24.0	2386806	84	2.4	98	24.0	2389583	50	2.4	85
12/25/2018	0.0	0	0	0.0	0	24.0	2330208	85	2.3	98	23.0	2421181	47	2.4	84
12/26/2018	0.0	0	0	0.0	0	23.7	2289236	130	2.3	95	24.0	2473958	52	2.5	86
12/27/2018	0.0	0	0	0.0	0	24.0	2366319	100	2.4	99	24.0	2486806	52	2.5	86
12/28/2018	0.0	0	0	0.0	0	24.0	2360417	95	2.4	98	24.0	2503125	50	2.5	85
12/29/2018	0.0	0	0	0.0	0	23.7	2278125	118	2.3	95	23.7	2517708	48	2.5	85
12/30/2018	0.0	0	0	0.0	0	24.0	2111458	101	2.1	98	24.0	2893750	45	2.9	86
12/31/2018	0.0	0	0	0.0	0	24.0	2061805	108	2.1	99	24.0	2923264	44	2.9	85

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-01

Month of January 2019

Total Off-Specification Volume (MG) = 0

Date	Min Flow Rate (MGD)	Total Production (Gals)	UV Reactor #1			UV Reactor #2			UV Reactor #3			UV Reactor #4		
			Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm ²)	Min UVT (%)
12/1/2018	10.4	10380521	0.0	0	0	24.0	24	85	0.0	0	0	24.0	25	87
12/2/2018	10.3	10344010	0.0	0	0	24.0	24	85	0.0	0	0	24.0	26	87
12/3/2018	10.5	10450399	0.0	0	0	24.0	24	85	0.0	0	0	24.0	25	87
12/4/2018	10.6	10572374	0.0	0	0	24.0	22	85	0.0	0	0	24.0	26	87
12/5/2018	10.5	10516611	0.0	0	0	24.0	23	85	0.0	0	0	24.0	25	87
12/6/2018	10.4	10446531	0.0	0	0	23.5	19	85	0.0	0	0	24.0	25	87
12/7/2018	11.0	10968502	0.0	0	0	0.0	0	0	0.0	0	0	24.0	18	87
12/8/2018	11.2	11167601	0.0	0	0	0.0	0	0	18.0	20	75	14.4	18	87
12/9/2018	12.8	12793628	0.0	0	0	0.0	0	0	24.0	22	75	0.0	0	0
12/10/2018	12.2	12184687	20.7	23	85	0.0	0	0	9.9	22	75	0.0	0	0
12/11/2018	12.0	12029132	24.0	26	85	0.0	0	0	0.0	0	0	5.6	24	87
12/12/2018	10.9	10929618	24.0	24	85	0.0	0	0	0.0	0	0	24.0	26	87
12/13/2018	11.5	11483004	7.3	8	85	0.0	0	0	0.0	0	0	24.0	24	87
12/14/2018	11.8	11772448	0.0	0	0	0.0	0	0	0.0	0	0	24.0	20	87
12/15/2018	11.8	11799826	0.0	0	0	0.0	0	0	18.5	21	75	14.9	21	87
12/16/2018	12.5	12456372	3.7	26	85	0.0	0	0	24.0	20	75	0.0	0	0
12/17/2018	11.2	11229479	22.5	22	85	16.5	20	85	7.4	21	75	0.0	0	0
12/18/2018	11.4	11414757	8.2	25	85	24.0	25	85	0.0	0	0	0.0	0	0
12/19/2018	11.9	11852639	0.0	0	0	24.0	24	85	0.0	0	0	3.0	21	87
12/20/2018	11.9	11930139	0.0	0	0	24.0	25	85	0.0	0	0	0.0	0	0
12/21/2018	11.9	11875365	0.0	0	0	24.0	28	85	0.0	0	0	0.0	0	0
12/22/2018	12.1	12078559	0.0	0	0	24.0	25	85	0.0	0	0	0.0	0	0
12/23/2018	11.9	11918003	0.0	0	0	24.0	26	85	0.0	0	0	0.0	0	0
12/24/2018	11.9	11933333	0.0	0	0	24.0	26	85	0.0	0	0	0.0	0	0
12/25/2018	11.6	11649878	0.0	0	0	24.0	25	85	0.0	0	0	4.5	22	87
12/26/2018	11.7	11740226	0.0	0	0	24.0	22	85	0.0	0	0	4.7	22	87
12/27/2018	12.0	11972986	0.0	0	0	24.0	20	85	0.0	0	0	0.0	0	0
12/28/2018	12.1	12141493	0.0	0	0	24.0	19	85	0.0	0	0	0.0	0	0
12/29/2018	11.8	11823177	5.2	26	85	22.2	20	85	0.0	0	0	0.0	0	0
12/30/2018	12.3	12349601	24.0	25	85	0.0	0	0	0.0	0	0	0.0	0	0
12/31/2018	12.3	12342361	24.0	22	85	0.0	0	0	0.0	0	0	0.0	0	0