

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

System ID **250008-02**
Month of **December 2018**

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. 99.6%

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	2.3		7	2.8		13	2.0		19	2.4		25	2.4
2	2.9		8	2.5		14	2.4		20	2.2		26	2.2
3	3.0		9	2.6		15	2.4		21	2.1		27	2.3
4	3.0		10	2.7		16	2.0		22	2.1		28	2.0
5	2.9		11	2.8		17	2.1		23	2.1		29	2.0
6	2.7		12	2.7		18	2.1		24	2.5		30	2.3
												31	2.4

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
 December 2018

Dec 2018	TURBIDITIES (NTU)	
	RAW	TRAINS
1	17.9	0.15
2	19.3	0.16
3	15.4	0.16
4	16.2	0.16
5	14.4	0.16
6	15.0	0.16
7	20.8	0.13
8	16.0	0.13
9	14.0	0.16
10	16.2	0.17
11	15.1	0.17
12	21.5	0.20
13	14.0	0.17
14	16.9	0.20
15	20.8	0.19
16	22.6	0.15
17	43.1	0.19
18	18.8	0.21
19	18.4	0.13
20	25.5	0.16
21	40.4	0.17
22	23.8	0.16
23	19.9	0.19
24	18.4	0.15
25	23.1	0.18
26	20.6	0.20
27	22.2	0.16
28	21.3	0.15
29	33.6	0.17
30	21.0	0.15
31	20.4	0.17
MIN	14.0	0.13
MAX	43.1	0.21
AVG	20.9	0.17

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

System ID
Month Of

250008-02
December 2018

Dec 2018	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.13	0.15	0.12	0.11	0.09	0.12
2	0.15	0.09	0.15	0.15	0.16	0.15
3	0.14	0.13	0.16	0.15	0.16	0.15
4	0.15	0.16	0.15	0.13	0.10	0.09
5	0.16	0.16	0.10	0.16	0.16	0.16
6	0.10	0.16	0.16	0.16	0.09	0.09
7	0.10	0.13	0.08	0.08	0.11	0.13
8	0.13	0.10	0.09	0.10	0.12	0.12
9	0.16	0.16	0.16	0.16	0.16	0.16
10	0.16	0.16	0.17	0.16	0.16	0.16
11	0.17	0.16	0.16	0.16	0.16	0.16
12	0.11	0.16	0.16	0.17	0.16	0.20
13	0.11	0.17	0.11	0.17	0.17	0.17
14	0.10	0.17	0.17	0.17	0.18	0.20
15	0.08	0.18	0.19	0.19	0.18	0.19
16	0.09	0.08	0.14	0.14	0.15	0.13
17	0.12	0.13	0.17	0.17	0.19	0.09
18	0.09	0.11	0.14	0.09	0.10	0.21
19	0.10	0.11	0.12	0.13	0.12	0.12
20	0.12	0.15	0.16	0.12	0.12	0.09
21	0.15	0.11	0.17	0.12	0.15	0.14
22	0.15	0.16	0.15	0.09	0.13	0.13
23	0.19	0.18	0.18	0.12	0.14	0.15
24	0.14	0.15	0.11	0.13	0.14	0.14
25	0.12	0.12	0.17	0.12	0.15	0.18
26	0.13	0.14	0.14	0.20	0.20	0.19
27	0.10	0.16	0.14	0.13	0.16	0.09
28	0.14	0.15	0.10	0.10	0.10	0.13
29	0.10	0.16	0.17	0.13	0.12	0.11
30	0.13	0.12	0.15	0.13	0.14	0.13
31	0.13	0.14	0.17	0.12	0.14	0.12
MIN	0.08	0.08	0.08	0.08	0.09	0.09
MAX	0.19	0.18	0.19	0.20	0.20	0.21
AVG	0.13	0.14	0.15	0.14	0.14	0.14

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

System ID
Month Of

250008-02
December 2018

Dec 2018	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.1	2.7	2.5	2.3	2.7	2.7
2	3.0	2.9	3.1	3.0	2.9	3.0
3	3.0	3.0	3.1	3.0	3.1	3.2
4	3.2	3.0	3.1	3.0	3.1	3.2
5	3.1	3.23.1	3.0	2.9	3.0	3.0
6	3.0	2.8	2.7	2.9	2.8	2.8
7	2.8	2.9	3.0	2.9	2.8	2.9
8	2.8	2.7	2.6	2.5	2.6	2.7
9	2.7	2.7	2.6	2.6	2.6	2.9
10	2.8	2.8	2.7	2.8	3.1	3.0
11	2.9	2.9	2.8	2.8	2.9	2.9
12	2.8	2.7	2.7	2.8	2.7	2.7
13	2.0	2.3	2.0	2.8	2.7	3.1
14	2.8	2.8	2.7	2.6	2.6	2.4
15	2.4	2.5	2.6	2.6	2.4	2.4
16	2.0	2.3	2.1	2.2	2.1	2.3
17	2.3	2.1	2.1	2.1	2.4	2.7
18	2.1	2.1	2.1	2.4	2.2	2.3
19	2.4	2.5	2.5	2.5	2.4	2.4
20	2.4	2.3	2.9	2.8	2.8	2.2
21	2.2	2.3	2.3	2.2	2.1	2.2
22	2.4	2.1	3.2	3.3	3.0	2.9
23	2.1	2.2	2.3	2.6	2.4	2.4
24	2.6	2.6	2.6	2.9	2.6	2.5
25	2.5	2.4	2.6	3.1	3.0	2.4
26	2.2	2.3	2.2	2.5	3.4	3.5
27	2.3	2.5	2.6	3.6	2.6	2.4
28	2.4	2.3	2.3	2.2	2.0	2.0
29	2.0	2.1	2.0	2.0	2.1	2.2
30	2.3	2.4	2.5	2.6	2.5	2.4
31	2.4	3.4	2.6	2.6	2.4	2.4
MIN	2.0	2.1	2.0	2.0	2.0	2.0
MAX	3.2	3.4	3.2	3.6	3.4	3.5
AVG	2.5	2.6	2.6	2.7	2.6	2.6

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

System ID **250008-01**
Month of **December 2018**

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. 97.9%

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	2.8	7	2.9	13	2.4	19	2.7	25	3.1
2	2.8	8	2.1	14	2.5	20	3.1	26	2.7
3	2.3	9	2.6	15	2.6	21	2.8	27	3.0
4	2.9	10	1.9	16	2.7	22	2.2	28	3.1
5	3.0	11	3.0	17	2.6	23	2.9	29	2.8
6	2.9	12	2.3	18	2.1	24	3.1	30	2.3
								31	2.8

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
J. H. Fewell Surface Water Treatment Plant
Turbidity Compliance Report

System ID
MONTH

250008-01
December 2018

Dec 2018	TURBIDITIES (NTU)			
	RAW	SETTLED	FILTER	HS #1
1	12.4	0.40	0.16	0.14
2	19.2	0.52	0.06	0.12
3	17.5	0.93	0.09	0.13
4	15.2	0.56	0.15	0.19
5	90.0	0.35	0.14	0.13
6	15.4	0.59	0.15	0.14
7	13.7	0.36	0.13	0.11
8	45.7	0.34	0.06	0.12
9	32.1	0.27	0.06	0.20
10	90.0	0.84	0.05	0.12
11	26.2	0.37	0.12	0.10
12	90.0	0.26	0.05	0.13
13	20.3	0.31	0.18	0.20
14	90.0	0.48	0.15	0.22
15	30.8	0.44	0.14	0.18
16	24.0	0.43	0.15	0.29
17	66.8	0.73	0.10	0.26
18	33.3	0.48	0.07	0.23
19	57.5	0.49	0.07	0.33
20	24.7	0.46	0.14	0.24
21	79.0	0.35	0.13	0.34
22	30.3	1.12	0.19	0.36
23	24.6	0.64	0.16	0.27
24	23.6	0.96	0.12	0.17
25	22.6	0.74	0.15	0.22
26	90.0	0.56	0.10	0.22
27	90.0	0.52	0.17	0.29
28	88.2	0.46	0.09	0.28
29	39.2	0.60	0.13	0.30
30	43.8	0.60	0.16	0.20
31	41.9	1.03	0.17	0.20
MIN	12.40	0.26	0.05	0.10
MAX	90.0	1.12	0.19	0.36
AVG	44.8	0.55	0.12	0.17

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

System ID
MONTH

250008-01
December 2018

Higher finished
turbidities due to post-
treatment lime addition

Dec 2018	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.10	0.10	0.14	0.11	0.10	0.10
2	0.11	0.10	0.10	0.11	0.11	0.12
3	0.13	0.12	0.12	0.11	0.10	0.10
4	0.10	0.11	0.19	0.11	0.10	0.10
5	0.10	0.11	0.12	0.13	0.13	0.13
6	0.14	0.13	0.12	0.12	0.12	0.12
7	0.11	0.11	0.11	0.11	0.11	0.10
8	0.10	0.10	0.11	0.11	0.11	0.12
9	0.13	0.14	0.20	0.18	0.16	0.13
10	0.12	0.11	0.11	0.11	0.11	0.11
11	0.10	0.09	0.09	0.09	0.09	0.09
12	0.11	0.10	0.12	0.13	0.13	0.13
13	0.14	0.15	0.18	0.20	0.20	0.19
14	0.21	0.22	0.22	0.18	0.14	0.13
15	0.16	0.18	0.17	0.16	0.13	0.13
16	0.12	0.15	0.29	0.29	0.17	0.20
17	0.20	0.25	0.26	0.21	0.19	0.18
18	0.22	0.23	0.23	0.22	0.18	0.18
19	0.21	0.31	0.33	0.23	0.18	0.20
20	0.23	0.24	0.23	0.19	0.20	0.21
21	0.21	0.28	0.28	0.23	0.34	0.34
22	0.34	0.35	0.36	0.28	0.23	0.23
23	0.24	0.21	0.21	0.24	0.27	0.22
24	0.17	0.16	0.16	0.15	0.15	0.15
25	0.17	0.20	0.22	0.19	0.19	0.22
26	0.22	0.22	0.22	0.21	0.19	0.18
27	0.18	0.19	0.27	0.29	0.28	0.28
28	0.28	0.28	0.20	0.19	0.19	0.16
29	0.21	0.30	0.19	0.23	0.19	0.13
30	0.12	0.14	0.20	0.18	0.14	0.15
31	0.13	0.19	0.19	0.17	0.18	0.20
MIN	0.10	0.09	0.09	0.09	0.09	0.09
MAX	0.34	0.35	0.36	0.29	0.34	0.34
AVG	0.16	0.18	0.19	0.18	0.16	0.16

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

System ID
MONTH

250008-01
December 2018

Dec 2018	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.2	3.3	3.3	2.9	2.8	2.9
2	2.8	2.9	2.9	2.8	2.8	2.9
3	2.9	2.9	2.3	3.1	3.0	3.0
4	3.1	3.0	3.0	2.9	3.0	3.0
5	3.0	3.0	3.1	3.0	3.0	3.0
6	3.0	3.0	3.1	2.9	2.9	3.1
7	3.0	3.1	2.9	3.0	3.0	3.1
8	3.1	3.0	3.0	2.1	2.9	2.9
9	2.9	2.9	2.8	2.6	2.7	2.8
10	2.9	2.8	1.9	3.2	3.4	3.3
11	3.1	3.1	3.1	3.0	3.0	3.0
12	2.7	2.6	2.6	2.3	2.3	2.4
13	2.7	2.8	2.4	2.6	2.6	2.5
14	2.5	2.6	2.7	2.7	2.7	2.7
15	2.6	2.7	2.6	2.7	2.7	2.7
16	2.7	2.7	2.7	2.7	2.7	2.7
17	2.7	2.8	2.7	2.7	2.7	2.6
18	2.6	2.6	2.7	2.6	2.1	2.7
19	2.7	2.7	2.7	3.0	3.2	3.2
20	3.2	3.1	3.1	3.1	3.2	3.3
21	3.3	3.2	3.1	3.1	3.0	2.8
22	2.4	2.2	2.2	2.5	2.6	2.2
23	2.9	3.0	2.9	2.9	2.9	3.0
24	3.1	3.1	3.1	3.1	3.1	3.1
25	3.1	3.1	3.1	3.1	3.1	3.1
26	3.1	3.1	2.7	3.0	3.3	3.4
27	3.3	3.3	3.1	3.0	3.1	3.4
28	3.7	4.0	3.1	3.2	3.1	3.1
29	3.1	2.9	2.8	2.8	2.9	2.8
30	2.9	2.9	3.1	3.0	2.5	2.3
31	2.8	3.0	3.0	2.9	2.9	3.0
MIN	2.4	2.2	1.9	2.1	2.1	2.2
MAX	3.7	4.0	3.3	3.2	3.4	3.4
AVG	2.9	2.9	2.8	2.9	2.9	2.9

**CITY OF JACKSON
DISTRIBUTION SYSTEM DISINFECTANT DATA**

System ID **250008**
Month of **December 2018**

	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					
3					
4	57				
5	37				
6	32				
7					
8					
9					
10					
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**

Dec-18	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**

2018

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
1/9/2018	OBC HS1	12	8.2	3.9	52.4	50.0	1.05
	OBC HS2	12	8.2	4.1	50.0	50.0	1.00
	JHF HS1	26	8.3	5.2	37.3	50.0	0.75
1/19/2018	OBC HS1	13	6.8	3.1	54.4	50.0	1.09
	OBC HS2	13	6.8	2.2	67.6	50.0	1.35
	JHF HS1	20	7.2	2.0	72.2	50.0	1.44
1/31/2018	OBC HS1	12	4.2	1.9	54.8	45.0	1.22
	OBC HS2	12	4.2	1.3	69.0	45.0	1.53
	JHF HS1	17	5.3	1.1	79.2	45.0	1.76
2/5/2018	OBC HS1	15	7.7	1.9	75.3	45.0	1.67
	OBC HS2	15	7.7	2.7	64.9	45.0	1.44
	JHF HS1	16	9.7	1.4	85.6	50.0	1.71
2/12/2008	OBC HS1	15	8.7	3.7	57.5	50.0	1.15
	OBC HS2	15	8.7	4.0	54.0	50.0	1.08
	JHF HS1	15	11.5	4.2	63.5	50.0	1.27
2/21/2018	OBC HS1	11	14.4	4.3	70.1	50.0	1.40
	OBC HS2	11	14.4	5.1	64.6	50.0	1.29
	JHF HS1	11	13.5	5.4	60.0	50.0	1.20
2/27/2018	OBC HS1	11	12.5	4.3	65.6	50.0	1.31
	OBC HS2	11	12.5	4.8	61.6	50.0	1.23
	JHF HS1	11	12.9	3.9	69.8	50.0	1.40
3/5/2018	OBC HS1	12	6.8	3.9	42.6	45.0	0.95
	OBC HS2	12	6.8	4.1	39.7	45.0	0.88
	JHF HS1	11	8.1	3.5	56.8	50.0	1.14
3/14/2018	OBC HS1	12	11.7	3.7	68.4	50.0	1.37
	OBC HS2	12	11.7	4.8	59.0	50.0	1.18
	JHF HS1	12	12.8	3.8	70.3	50.0	1.41
3/20/2018	OBC HS1	13	15.9	6.9	56.6	50.0	1.13
	OBC HS2	13	15.9	7.4	53.5	50.0	1.07
	JHF HS1	12	13.2	7.0	47.0	50.0	0.94
3/27/2018	OBC HS1	10	11.1	4.3	61.3	50.0	1.23
	OBC HS2	10	11.1	5.0	55.0	50.0	1.10
	JHF HS1	12	12.3	5.4	56.1	50.0	1.12
4/3/2018	OBC HS1	12	13.0	5.7	56.2	50.0	1.12
	OBC HS2	12	13.0	4.9	62.3	50.0	1.25
	JHF HS1	10	14.6	4.5	69.2	50.0	1.38
RUNNING ANNUAL AVERAGE	OBC HS1						1.22
	OBC HS2						1.20
	JHF HS1						1.29
TOTAL COMBINED RUNNING ANNUAL AVERAGE							1.24

**CITY OF JACKSON
TOC REMOVAL SUMMARY**

2018

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
4/9/2018	OBC HS1	12	12.5	3.7	70.4	50.0	1.41
	OBC HS2	12	12.5	3.9	68.8	50.0	1.38
	JHF HS1	10	12.6	4.5	64.3	50.0	1.29
4/16/2018	OBC HS1	16	13.5	2.1	84.4	50.0	1.69
	OBC HS2	16	13.5	5.2	61.5	50.0	1.23
	JHF HS1	8	15.3	5.3	65.4	45.0	1.45
5/8/2018	OBC HS1	11	9.7	3.7	61.9	50.0	1.24
	OBC HS2	11	9.7	3.4	64.9	50.0	1.30
	JHF HS1	15	9.8	4.0	59.2	50.0	1.18
5/16/2018	OBC HS1	12	8.9	1.7	80.9	50.0	1.62
	OBC HS2	12	8.9	1.6	82.0	50.0	1.64
	JHF HS1	17	8.5	2.7	68.2	50.0	1.36
5/22/2018	OBC HS1	13	10.6	6.2	41.5	50.0	0.83
	OBC HS2	13	10.6	6.4	39.6	50.0	0.79
	JHF HS1	24	16.5	5.9	64.2	50.0	1.28
5/30/2018	OBC HS1	15	7.6	3.8	50.0	50.0	1.00
	OBC HS2	15	9.2	3.9	57.6	50.0	1.15
	JHF HS1	16	9.6	4.0	58.3	50.0	1.17
6/4/2018	OBC HS1	14	10.5	2.4	77.1	50.0	1.54
	OBC HS2	14	10.5	4.1	61.0	50.0	1.22
	JHF HS1	17	8.1	3.0	63.0	50.0	1.26
6/12/2018	OBC HS1	18	7.4	1.7	77.0	45.0	1.71
	OBC HS2	18	7.4	2.1	71.6	45.0	1.59
	JHF HS1	16	13.4	1.8	86.6	50.0	1.73
6/17/2018	OBC HS1	15	7.1	2.2	69.0	45.0	1.53
	OBC HS2	15	7.1	1.6	77.5	45.0	1.72
	JHF HS1	17	7.3	2.0	72.6	45.0	1.61
6/25/2018	OBC HS1	17	8.4	1.4	83.3	50.0	1.67
	OBC HS2	17	8.4	2.6	69.0	50.0	1.38
	JHF HS1	29	7.4	1.3	82.4	45.0	1.83
7/6/2018	OBC HS1	15	7.9	2	74.7	45.0	1.66
	OBC HS2	15	7.9	2.5	68.4	45.0	1.52
	JHF HS1	15	6.2	3.0	51.6	45.0	1.15
7/10/2018	OBC HS1	13	7.1	1.3	81.7	45.0	1.82
	OBC HS2	13	7.1	2.0	71.8	45.0	1.60
	JHF HS1	16	4.6	1.7	63.0	45.0	1.40
7/17/2018	OBC HS1	21	5.1	2.3	54.9	45.0	1.22
	OBC HS2	21	5.1	2.1	58.8	45.0	1.31
	JHF HS1	24	5.7	2.6	54.4	45.0	1.21
RUNNING ANNUAL AVERAGE	OBC HS1						1.34
	OBC HS2						1.29
	JHF HS1						1.34
TOTAL COMBINED RUNNING ANNUAL AVERAGE							1.32

**CITY OF JACKSON
TOC REMOVAL SUMMARY**

2018

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
7/23/2018	OBC HS1	21	6.5	2.2	66.2	45.0	1.47
	OBC HS2	21	6.5	2.7	58.5	45.0	1.30
	JHF HS1	19	7.1	3.1	56.3	45.0	1.25
8/8/2018	OBC HS1	22	9.1	3.3	63.7	50.0	1.27
	OBC HS2	22	9.1	3.1	65.9	50.0	1.32
	JHF HS1	24	6.7	5.1	23.9	45.0	0.53
8/13/2018	OBC HS1	19	9.0	2.5	72.2	50.0	1.44
	OBC HS2	19	9.0	2.2	75.6	50.0	1.51
	JHF HS1	22	8.0	3.1	61.3	45.0	1.36
8/20/2018	OBC HS1	22	6.7	1.9	71.6	45.0	1.59
	OBC HS2	22	6.7	1.4	79.1	45.0	1.76
	JHF HS1	19	7.8	2.1	73.1	45.0	1.62
8/27/2018	OBC HS1	21	10.9	5.1	53.2	50.0	1.06
	OBC HS2	21	10.9	3.5	67.9	50.0	1.36
	JHF HS1	24	5.9	3.6	39.0	45.0	0.87
9/5/2018	OBC HS1	20	10.7	1.7	84.1	50.0	1.68
	OBC HS2	20	10.7	2.7	74.8	50.0	1.50
	JHF HS1	20	5.4	2.9	46.3	45.0	1.03
9/11/2018	OBC HS1	19	8.9	3.2	64.0	50.0	1.28
	OBC HS2	19	8.6	3.0	65.1	50.0	1.30
	JHF HS1	21	7.1	2.6	63.4	45.0	1.41
9/17/2018	OBC HS1	23	7.8	2	74.4	45.0	1.65
	OBC HS2	23	7.8	2.3	70.5	45.0	1.57
	JHF HS1	25	5.2	2.9	44.2	45.0	0.98
9/25/2018	OBC HS1	19	8.3	3.2	61.4	50.0	1.23
	OBC HS2	19	8.3	3.1	62.7	50.0	1.25
	JHF HS1	29	8.4	3.9	53.6	50.0	1.07
10/2/2018	OBC HS1	22	7.8	2.8	64.1	50.0	1.28
	OBC HS2	22	7.8	1.9	75.6	50.0	1.51
	JHF HS1	23	6.1	3.5	42.6	45.0	0.95
10/10/2018	OBC HS1	21	8.1	4.3	46.9	50.0	0.94
	OBC HS2	21	8.1	3.8	53.1	50.0	1.06
	JHF HS1	30	6.9	3.3	52.2	45.0	1.16
10/16/2018	OBC HS1	23	6.9	2.6	62.3	45.0	1.38
	OBC HS2	23	6.9	3.2	53.6	45.0	1.19
	JHF HS1	27	6.5	2.5	61.5	45.0	1.37
10/25/2018	OBC HS1	26	7.1	2.2	69.0	45.0	1.53
	OBC HS2	26	7.1	2.2	69.0	45.0	1.53
	JHF HS1	28	5.8	2.4	58.6	45.0	1.30
RUNNING ANNUAL AVERAGE	OBC HS1						1.35
	OBC HS2						1.33
	JHF HS1						1.24
TOTAL COMBINED RUNNING ANNUAL AVERAGE							1.32

**CITY OF JACKSON
TOC REMOVAL SUMMARY**

2018

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
11/2/2018	OBC HS1	19	8.3	3.0	63.9	50.0	1.28
	OBC HS2	19	8.3	3.2	61.4	50.0	1.23
	JHF HS1	26	6.2	3.5	43.5	45.0	0.97
11/15/2018	OBC HS1	23	9.6	2.3	76.0	50.0	1.52
	OBC HS2	23	9.6	2.5	74.0	50.0	1.48
	JHF HS1	21	10.1	2.8	72.3	50.0	1.45
12/10/2018	OBC HS1	13	8.9	3.3	62.7	50.0	1.25
	OBC HS2	13	8.9	2.0	77.5	50.0	1.55
	JHF HS1	14	8.9	2.7	69.7	50.0	1.39
12/17/2018	OBC HS1	16	9.7	1.3	86.6	50.0	1.73
	OBC HS2	16	9.7	2.0	79.4	50.0	1.59
	JHF HS1	21	10.9	4.2	61.5	50.0	1.23
12/26/2018	OBC HS1	10	9.2	2.9	68.5	50.0	1.37
	OBC HS2	10	9.2	3.5	62.0	50.0	1.24
	JHF HS1	14	9.9	3.6	63.6	50.0	1.27
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
	OBC HS1						
	OBC HS2						
	JHF HS1						
RUNNING ANNUAL AVERAGE	OBC HS1						1.36
	OBC HS2						1.34
	JHF HS1						1.27
TOTAL COMBINED RUNNING ANNUAL AVERAGE							1.32

**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	9.4	30	30	9.6	66	30
	1500 - 2300	9.5	27	28	9.6	77	35
	2300 - 0700	9.4	26	34	9.5	68	34
2	0700 - 1500	9.7	31	32	9.5	64	46
	1500 - 2300	9.7	30	34	9.7	67	54
	2300 - 0700	9.7	30	32	9.4	67	58
3	0700 - 1500	9.5	31	31	9.4	75	44
	1500 - 2300	9.4	28	32	9.1	62	55
	2300 - 0700	9.5	33	30	9.2	62	28
4	0700 - 1500	9.7	30	33	9.4	70	52
	1500 - 2300	9.2	20	20	9.4	67	32
	2300 - 0700	9.4	26	27	9.6	68	29
5	0700 - 1500	9.4	29	31	9.4	66	33
	1500 - 2300	9.2	27	20	9.7	70	28
	2300 - 0700	9.4	26	27	9.7	70	27
6	0700 - 1500	9.4	30	32	9.5	70	47
	1500 - 2300	9.4	29	27	9.8	84	33
	2300 - 0700	9.4	28	26	9.7	69	30
7	0700 - 1500	9.0	28	26	9.8	70	30
	1500 - 2300	9.5	19	19	9.7	69	30
	2300 - 0700	9.4	19	20	9.5	67	26
8	0700 - 1500	9.3	19	20	9.3	88	24
	1500 - 2300	9.2	17	16	9.4	62	25
	2300 - 0700	9.2	15	18	9.5	67	28
9	0700 - 1500	9.5	22	21	9.4	75	30
	1500 - 2300	9.6	24	28	9.3	61	28
	2300 - 0700	9.4	26	28	9.5	69	30
10	0700 - 1500	9.5	29	31	9.4	54	51
	1500 - 2300	9.5	32	33	9.6	67	35
	2300 - 0700	9.4	30	31	9.6	72	32
11	0700 - 1500	9.2	31	33	9.5	70	47
	1500 - 2300	9.5	16	23	9.3	75	21
	2300 - 0700	9.2	19	27	9.7	71	26

**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	32	20	9.4	81	49
	1500 - 2300	9.0	20	20	9.6	70	27
	2300 - 0700	9.0	22	20	9.8	61	27
13	0700 - 1500	9.0	28	24	9.9	67	44
	1500 - 2300	9.2	27	25	9.5	80	17
	2300 - 0700	9.2	28	26	9.4	61	17
14	0700 - 1500	9.5	29	28	9.3	64	18
	1500 - 2300	9.1	24	16	9.3	51	16
	2300 - 0700	9.2	25	18	9.8	61	19
15	0700 - 1500	9.2	26	20	9.5	68	22
	1500 - 2300	9.4	24	17	9.4	73	22
	2300 - 0700	9.4	25	19	9.8	64	17
16	0700 - 1500	9.3	29	24	9.3	59	21
	1500 - 2300	9.5	35	31	9.5	54	18
	2300 - 0700	9.2	32	31	9.3	68	19
17	0700 - 1500	9.2	33	32	9.6	60	22
	1500 - 2300	9.3	32	30	9.2	59	20
	2300 - 0700	9.2	30	31	9.2	64	18
18	0700 - 1500	9.2	22	17	9.0	58	19
	1500 - 2300	9.0	20	20	9.2	82	21
	2300 - 0700	9.2	24	22	9.2	56	16
19	0700 - 1500	9.3	23	21	9.2	66	21
	1500 - 2300	9.3	31	27	9.4	66	22
	2300 - 0700	9.2	29	25	9.3	65	16
20	0700 - 1500	9.5	35	31	9.0	66	19
	1500 - 2300	9.3	28	18	9.4	73	28
	2300 - 0700	9.3	26	20	9.5	64	18
21	0700 - 1500	9.5	29	27	9.5	69	20
	1500 - 2300	9.4	28	26	9.5	54	18
	2300 - 0700	9.3	29	28	9.6	64	24
22	0700 - 1500	9.8	28	26	9.7	65	21
	1500 - 2300	9.0	29	24	9.7	72	23
	2300 - 0700	9.6	28	27	9.6	65	17

**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	9.7	31	29	9.3	63	22
	1500 - 2300	9.7	34	32	9.5	56	18
	2300 - 0700	9.4	35	33	9.5	72	21
24	0700 - 1500	9.5	32	31	9.1	70	16
	1500 - 2300	9.5	34	32	9.2	60	16
	2300 - 0700	9.4	34	30	9.3	64	17
25	0700 - 1500	9.5	33	31	9.3	59	17
	1500 - 2300	9.6	36	32	9.3	68	21
	2300 - 0700	9.3	34	32	9.3	62	17
26	0700 - 1500	9.3	34	29	9.2	57	19
	1500 - 2300	9.2	32	29	9.1	70	18
	2300 - 0700	9.3	31	30	9.0	63	15
27	0700 - 1500	9.3	34	32	9.4	60	15
	1500 - 2300	9.3	32	30	9.2	67	25
	2300 - 0700	9.5	26	23	9.5	74	21
28	0700 - 1500	9.4	18	16	9.2	68	19
	1500 - 2300	9.2	20	19	9.0	63	19
	2300 - 0700	9.0	29	27	9.7	72	24
29	0700 - 1500	9.6	26	22	9.3	72	16
	1500 - 2300	9.6	27	18	9.9	73	24
	2300 - 0700	9.6	25	23	9.6	67	19
30	0700 - 1500	9.2	28	24	9.0	59	15
	1500 - 2300	9.2	31	30	9.3	61	23
	2300 - 0700	9.3	31	30	9.5	69	22
31	0700 - 1500	9.0	32	30	9.3	65	16
	1500 - 2300	9.1	34	31	9.8	77	17
	2300 - 0700	9.2	32	30	9.8	74	20
MONTHLY MIN		9.0	15	16	9.0	51	15
MONTHLY MAX		9.8	36	34	9.9	88	58
MONTHLY AVG		9.4	28	26	9.4	67	26

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-02 Month of December 2018

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	23.2	2815625	31	2.8	76	24.0	3135069	25	3.1	85	23.4	2647569	45	2.6	89
12/2/2018	23.3	3104167	31	3.1	71	23.4	2757292	72	2.8	85	23.4	2906597	88	2.9	88
12/3/2018	23.2	3012153	45	3.0	70	23.6	2661111	74	2.7	85	23.2	2819097	68	2.8	89
12/4/2018	23.2	3073611	33	3.1	70	22.8	2291319	134	2.3	85	23.3	2871875	59	2.9	88
12/5/2018	24.0	2950694	35	3.0	85	24.0	2386806	32	2.4	85	24.0	2747222	37	2.7	90
12/6/2018	23.7	2915120	35	2.9	85	24.2	2327148	33	2.3	85	24.2	2768041	37	2.8	88
12/7/2018	23.2	2926736	35	2.9	85	23.3	2209722	101	2.2	85	22.9	2763889	69	2.8	83
12/8/2018	23.1	2911806	46	2.9	85	24.0	2312847	33	2.3	85	23.7	2774306	49	2.8	89
12/9/2018	23.6	2987847	35	3.0	85	22.9	2194792	101	2.2	85	23.2	2739583	60	2.7	89
12/10/2018	24.0	2840278	36	2.8	85	24.0	2398958	33	2.4	85	24.0	2647222	39	2.6	90
12/11/2018	23.3	2830903	34	2.8	85	24.0	2311111	33	2.3	85	24.0	2716319	36	2.7	79
12/12/2018	24.0	2630903	38	2.6	85	23.5	2620486	86	2.6	85	23.6	2406944	42	2.4	81
12/13/2018	23.7	2349306	41	2.3	85	23.0	2579167	120	2.6	85	22.9	2122917	66	2.1	89
12/14/2018	24.0	2286111	41	2.3	85	24.0	2493750	31	2.5	85	24.0	2115625	44	2.1	90
12/15/2018	23.7	2331250	40	2.3	85	23.4	2380208	65	2.4	85	23.7	2157639	67	2.2	89
12/16/2018	24.0	2207986	41	2.2	85	24.0	2251389	32	2.3	85	24.0	2043750	43	2.0	89
12/17/2018	22.9	2211111	41	2.2	85	24.0	2169444	33	2.2	85	23.7	2079861	42	2.1	89
12/18/2018	23.7	2518056	49	2.5	85	23.7	2059028	57	2.1	85	23.8	2339236	51	2.3	89
12/19/2018	23.6	2577083	37	2.6	85	23.5	1968403	81	2.0	85	23.8	2422222	50	2.4	88
12/20/2018	23.8	2554167	36	2.6	85	24.0	1973958	35	2.0	85	24.0	2411806	37	2.4	89
12/21/2018	23.6	2615278	36	2.6	85	23.0	1944444	136	1.9	85	23.2	2381597	60	2.4	87
12/22/2018	24.0	2584028	36	2.6	85	24.0	2088542	34	2.1	85	24.0	2393403	38	2.4	89
12/23/2018	23.6	2591667	36	2.6	85	24.0	2034722	34	2.0	85	23.7	2447569	49	2.4	88
12/24/2018	24.0	2610764	37	2.6	85	24.0	1998958	35	2.0	85	24.0	2427083	38	2.4	89
12/25/2018	21.8	2585069	33	2.6	85	24.0	1982986	35	2.0	85	24.0	2437500	37	2.4	88
12/26/2018	24.0	2560417	25	2.6	85	23.0	2185764	77	2.2	85	23.5	2340278	60	2.3	85
12/27/2018	11.5	2473958	18	2.5	85	22.6	2387457	29	2.4	85	24.0	2295486	38	2.3	89
12/28/2018	23.6	2504514	48	2.5	85	24.0	2371181	31	2.4	85	24.0	2372917	38	2.4	89
12/29/2018	24.0	2728819	35	2.7	85	23.5	2020486	80	2.0	85	23.6	2475000	59	2.5	86
12/30/2018	24.0	2835069	35	2.8	85	24.0	1797569	39	1.8	85	24.0	2645139	37	2.6	89
12/31/2018	23.5	2697569	35	2.7	85	24.0	1773264	39	1.8	85	24.0	2597917	36	2.6	89

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-02 **Month of** December 2018

Total Off-Specification Volume (MG) = 0

Date															
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UV T (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UV T (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UV T (%)
12/1/2018	24.0	2945139	35	2.9	95	23.3	3005208	35	3.0	91	24.0	2965625	41	3.0	85
12/2/2018	23.5	3167014	32	3.2	95	23.2	3222917	33	3.2	90	23.5	3164931	38	3.2	85
12/3/2018	24.0	3131597	34	3.1	95	20.2	3804514	43	3.8	92	23.2	3064931	39	3.1	85
12/4/2018	23.0	3104514	45	3.1	95	15.3	4286458	36	4.3	89	23.0	3063889	41	3.1	85
12/5/2018	24.0	2962500	36	3.0	95	24.0	2167361	54	2.2	93	24.0	2996875	43	3.0	85
12/6/2018	24.2	2987285	36	3.0	95	24.2	2105842	56	2.1	93	24.2	3024742	43	3.0	85
12/7/2018	23.7	3027431	35	3.0	95	23.7	2064236	92	2.1	92	23.5	3015278	42	3.0	85
12/8/2018	23.2	2979167	58	3.0	95	24.0	2092708	58	2.1	93	23.8	3030903	43	3.0	85
12/9/2018	24.0	3039931	36	3.0	95	23.6	2117014	70	2.1	92	23.6	3022569	43	3.0	85
12/10/2018	24.0	2854861	37	2.9	95	24.0	2035764	59	2.0	93	24.0	2894097	44	2.9	85
12/11/2018	24.0	2920139	36	2.9	95	21.2	2461458	65	2.5	91	24.0	2967708	41	3.0	85
12/12/2018	23.6	2602431	39	2.6	95	24.0	1844444	64	1.8	93	23.6	2560417	50	2.6	85
12/13/2018	24.0	2389583	42	2.4	95	24.0	1794792	64	1.8	93	22.2	2401736	47	2.4	85
12/14/2018	22.6	2279861	52	2.3	95	23.7	2100347	89	2.1	91	24.0	2339931	51	2.3	85
12/15/2018	16.2	2399653	40	2.4	95	23.0	2314583	62	2.3	92	23.0	2323264	49	2.3	85
12/16/2018	24.0	1990972	45	2.0	95	24.0	1987847	55	2.0	92	24.0	2255208	51	2.3	85
12/17/2018	11.2	1167014	158	1.2	95	22.5	2234375	115	2.2	91	23.7	2288542	51	2.3	85
12/18/2018	0.0	0	0	0.0	0	24.0	2114236	55	2.1	93	23.7	2573264	46	2.6	85
12/19/2018	0.0	0	0	0.0	0	23.5	2077430	77	2.1	91	23.7	2643750	45	2.6	85
12/20/2018	0.0	0	0	0.0	0	24.0	2078472	53	2.1	93	24.0	2641319	45	2.6	85
12/21/2018	0.0	0	0	0.0	0	17.5	2186458	85	2.2	90	23.6	2668403	44	2.7	85
12/22/2018	0.0	0	0	0.0	0	24.0	2195833	52	2.2	93	23.7	2596875	44	2.6	85
12/23/2018	0.0	0	0	0.0	0	24.0	2137153	53	2.1	93	24.0	2704861	44	2.7	85
12/24/2018	0.0	0	0	0.0	0	24.0	2085069	56	2.1	93	24.0	2660069	45	2.7	85
12/25/2018	0.0	0	0	0.0	0	24.0	2070486	55	2.1	93	24.0	2670139	44	2.7	85
12/26/2018	0.0	0	0	0.0	0	23.4	2148611	77	2.1	90	23.6	2557986	45	2.6	85
12/27/2018	0.0	0	0	0.0	0	24.0	2079167	57	2.1	94	24.0	2530556	46	2.5	85
12/28/2018	0.0	0	0	0.0	0	24.0	2079167	58	2.1	94	24.0	2611458	45	2.6	85
12/29/2018	0.0	0	0	0.0	0	23.6	2121181	91	2.1	91	24.0	2788889	43	2.8	85
12/30/2018	0.0	0	0	0.0	0	24.0	2155556	64	2.2	95	23.5	2820833	43	2.8	85
12/31/2018	0.0	0	0	0.0	0	24.0	2103472	62	2.1	95	24.0	2837500	43	2.8	85

**CITY OF JACKSON
UV COMPLIANCE**

System ID 250008-01

Month of December 2018

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	9.9	9850729	5.9	27	85	0.0	0	0	0.0	0	0	13.2	24	87
12/2/2018	10.2	10233385	24.0	27	85	0.0	0	0	0.0	0	0	0.0	0	0
12/3/2018	10.0	9960330	24.0	27	85	0.0	0	0	0.0	0	0	0.0	0	0
12/4/2018	9.9	9855781	24.0	28	85	0.0	0	0	0.0	0	0	0.0	0	0
12/5/2018	9.5	9545764	10.1	22	85	12.2	23	85	0.0	0	0	0.0	0	0
12/6/2018	9.7	9746007	0.0	0	0	9.5	20	85	14.4	25	75	0.0	0	0
12/7/2018	10.0	10001736	0.0	0	0	0.0	0	0	24.0	24	75	0.0	0	0
12/8/2018	10.0	9997066	0.0	0	0	0.0	0	0	24.0	25	75	0.0	0	0
12/9/2018	9.6	9599026	0.0	0	0	0.0	0	0	8.9	21	75	14.6	17	87
12/10/2018	9.2	9199115	0.0	0	0	0.0	0	0	0.0	0	0	24.0	28	87
12/11/2018	9.3	9330538	0.0	0	0	0.0	0	0	0.0	0	0	24.0	28	87
12/12/2018	8.9	8879149	4.6	15	85	0.0	0	0	16.6	19	75	24.0	29	87
12/13/2018	8.7	8724497	0.0	0	0	0.0	0	0	24.0	25	75	24.0	27	87
12/14/2018	8.8	8790833	0.0	0	0	0.0	0	0	20.6	22	75	24.0	27	87
12/15/2018	8.7	8711858	0.0	0	0	0.0	0	0	24.0	25	75	24.0	26	87
12/16/2018	8.7	8733785	0.0	0	0	0.0	0	0	24.0	25	75	24.0	25	87
12/17/2018	10.8	10845347	0.0	0	0	0.0	0	0	24.0	23	75	24.0	25	87
12/18/2018	13.1	13144236	14.2	15	85	5.3	17	85	2.7	22	75	24.0	23	87
12/19/2018	10.7	10656233	24.0	29	85	11.5	20	85	0.0	0	0	12.5	22	87
12/20/2018	10.6	10648542	24.0	28	85	24.0	26	85	0.0	0	0	0.0	0	0
12/21/2018	10.7	10735399	24.0	25	85	24.0	26	85	0.0	0	0	0.0	0	0
12/22/2018	10.8	10751059	24.0	25	85	24.0	26	85	0.0	0	0	0.0	0	0
12/23/2018	10.7	10745399	24.0	25	85	24.0	24	85	0.0	0	0	0.0	0	0
12/24/2018	10.8	10757639	24.0	25	85	24.0	24	85	0.0	0	0	0.0	0	0
12/25/2018	10.7	10697847	24.0	25	85	24.0	24	85	0.0	0	0	0.0	0	0
12/26/2018	10.8	10756996	24.0	23	85	24.0	25	85	0.0	0	0	0.0	0	0
12/27/2018	10.7	10663802	24.0	21	85	24.0	23	85	0.0	0	0	0.0	0	0
12/28/2018	11.4	11436389	0.0	0	0	24.0	19	85	3.0	29	75	1.4	27	87
12/29/2018	10.5	10452135	0.0	0	0	24.0	18	85	0.0	0	0	19.8	21	87
12/30/2018	10.3	10318368	0.0	0	0	24.0	17	85	0.0	0	0	24.0	25	87
12/31/2018	10.3	10335244	0.0	0	0	24.0	14	85	0.0	0	0	24.0	24	87