

The City of Durant encourages participation from all its citizens. If participation at any public meeting is not possible due to a disability, notification to the City Clerk at least 48 hours prior to the scheduled meeting is encouraged in order to make the necessary accommodations. The City of Durant may waive the 48-hour rule if interpreters for the deaf (signing) or translation services for limited English proficient (LEP) individuals are not the necessary accommodation.

DURANT CITY UTILITIES AUTHORITY

6:00 PM

**Roscoe J. Hatfield
Council Chambers,
300 West Evergreen,
Durant, Oklahoma**

August 9, 2022

AGENDA

CALL TO ORDER

ROLL CALL

ORDER OF BUSINESS

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

- a. Consider Approval of Regular Meeting Minutes of July 12, 2022

2. Consider Items Removed from Consent

3. Information Items

- a. Solid Waste Collection Monthly Report - July 2022
- b. Solid Waste Disposal Monthly Report- July 2022
- c. Waste Water Treatment Plant Monthly Reports - July 2022
- d. Water and Sewer Line Maintenance Monthly Report - July 2022
- e. Water Treatment Plant Monthly Reports - July 2022

4. Administration

5. New Business

EXECUTIVE SESSION

1. Consider Entering into Executive Session to Discuss the Purchase of Real Property Interests Along Cemetery Road and Rodeo Road. Permitted under 25 O.S. 307(B)(3).
- a. Consider Action Pursuant to Executive Session Item 1.

ADJOURNMENT

CERTIFICATE

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 9th day of November, 2021 and that an agenda of said meeting was posted at the place of such meeting at 11:45 a.m. on the 5th day of August, 2022.



Cynthia J. Price, City of Durant



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of July 12, 2022

Council Information / Action Requested

Approval of Regular Meeting Minutes of July 12, 2022

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Durant City Utilities Authority Minutes 07122022 cjp

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 9th day of November, 2021 and that an agenda of said meeting was posted at the place of such meeting at 9:50 a.m. on the 8th day of July, 2022.



Cynthia J. Price, City of Durant

**MINUTES OF THE MEETING OF DURANT CITY UTILITIES AUTHORITY
July 12, 2022 AT 6:00 PM, Roscoe J. Hatfield
Council Chambers,
300 West Evergreen,
Durant, Oklahoma**

CALL TO ORDER

Chairman Grube called the meeting to order at 6:55 p.m.

ROLL CALL

Present:

Trustee Steve Brittingham
Trustee Humphrey Miller
Trustee Curtis Morris
Vice Chairman Danny Sherrer
Chairman Oden Grube
City Attorney Tom Marcum
City Manager John Dean
City Clerk Cynthia J. Price

Absent:

None

ORDER OF BUSINESS

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

- a. Consider Approval of Regular Meeting Minutes of June 12, 2022
- b. Discussion, Consideration and Possible Action on 6th Amended Resolution Establishing Fees and Costs Charged by the City of Durant, Durant City Utilities Authority, and Durant Airport Authority for Durant Services (R-2021-02F)

Motion To: Approve Consent Items as Presented

Motion By: Humphrey Miller

Seconded By: Steve Brittingham

Ayes: Brittingham, Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None

2. Consider Items Removed from Consent

3. Information Items

- a. Line Maintenance Monthly Report - June 2022
- b. Solid Waste Collection Monthly Report - June 2022
- c. Solid Waste Landfill Monthly Report - June 2022
- d. Utility Billing Monthly Report - June 2022
- e. Waste Water Treatment Plant - June 2022
- f. Water Treatment Plant Monthly Report - June 2022

4. Administration

5. New Business

There was no new business.

ADJOURNMENT

Motion To: Adjourn Meeting

Motion By: Curtis Morris

Seconded By: Steve Brittingham

Ayes: Brittingham, Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From:
Re: Information Items

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Jared Dillingham, Superintendent
Re: Solid Waste Collection Monthly Report - July 2022

Solid Waste Monthly Report - July 2022

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Monthly Report - July 22



THE CITY OF DURANT

Office of the Solid Waste Manager

SOLID WASTE PROJECTS

July 2022

A. Work Completed:

1. Hauled 53.99 tons of extra hauling
2. Hauled 23 loads of extra hauling
3. Picked up and delivered 8 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 1 times
6. Replaced 3 dumpsters with new
7. Cleaned dead ends of Cemetery rd. 0 time

B. Work Planned For August 2022

1. Replace dumpsters
2. Pick up trash

C. Work Planned For January 1, 2022 – December 31, 2022

1. Pick up trash
2. Replace dumpsters

D. Projects Planned And Requested For Authorization:

None



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Kenny Cooper, Supervisor
Re: Solid Waste Disposal Monthly Report- July 2022

Monthly Report

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Project schedule July2022



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***July 2022***

A. Work Completed for July:

1. Covered C & D Site
2. Hauled MSW To SORD
3. Number of rolloff containers in service end of month 129
4. Number of rolloff containers added to service during month 18
5. Number of rolloff containers removed from service during month 14
6. Number of loaded rolloff containers emptied during month 344

B. Work Planned For August:

1. Continue Covering C&D site
2. Haul MSW To SORD
3. Continue Picking up, Delivering

C. Work Planned For Jan. '22 – Dec. '22:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2022 thru 12-2022

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Ray Anthony, Superintendent
Re: Waste Water Treatment Plant Monthly Reports - July 2022

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. WWTP LAB Report
2. WWTP Plant Report
3. WWTP Plant Work Done Report



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

7/1/22 to 7/31/22

Tests Processed

<u>71</u> Bac-T's	<u>34</u> React's
<u>72</u> BOD's	<u>54</u> COD
<u>20</u> TSS's	<u>68</u> MLSS
<u>27</u> NH3's	<u>68</u> Volatile Analysis
<u>62</u> DO's	<u>62</u> pH's
<u>08</u> Ecoli's	<u>0</u> FOG's
<u>16</u> cBOD's	<u>0</u> Total Solids
<u>14</u> Settleable Solids	<u>34</u> Settleometer Test
<u>0</u> Pretreatment Inspections	

Work Projects

- Data entry
- Reports (water test results), Make copies and envelope
- Purchase Orders, copy, file
- Equipment calibrations and maintenance
- Sampling and process readings
- Quality Assurance, Quality Control tests
- Laboratory Testing
- Filing
- Daily/Weekly laboratory and WWTP building cleaning
- Monthly, Quarterly, Bi-annual, Yearly reports
- Ordering Lab chemicals and supplies
- Water Billing
- Storm water monitoring
- Storm water Report
- Pre-Treatment



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

WORK PLANNED FOR AUGUST 2022

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (Daily)
- 2: CLEAN CLARIFIER WEIRS (Monthly)
- 3: VEHICLE INSPECTION (Weekly)
- 4: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 5: WAS FEED PUMP #2 VFD DRIVE REPAIRED (Ongoing)
- 6: CHECK CLARIFIER OIL (Weekly)
- 7: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER (Weekly)
- 8: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 9: BRIDGE FILTER REPAIR (Ongoing)
- 10: WALK-THRU INSPECTION (Monthly)
- 11: WASH DOWN HEADWORKS STEP SCREEN (Daily)
- 12: CLEAN UV TROUGHS, FLUME, AND MANUALLY CHECK U.V. BULBS (Weekly)
- 13: CHECK ELECTRIC MANHOLES (Monthly)
- 14: CLEAN OUT BUILDINGS (Weekly)
- 15: VALVE TO LAGOONS AT HEADWORKS (Ongoing)
- 16: WASH DOWN CASINO STEPSCREEN (Daily)
- 17: CHECK ALL AUTOMATIC VALVES (Daily)
- 18: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 19: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)
- 20: GRIT PUMPS AT HEADWORKS HEATERS INSTALLED (Ongoing)
- 21: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 22: SBR #4 MOTIVE PUMP REPAIRED (Ongoing)



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

WORK DONE FOR JULY 2022

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (Daily)
- 2: CLEAN CLARIFIER WEIRS (Monthly)
- 3: VEHICLE INSPECTION (Monthly)
- 4: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 5: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 6: CHECK CLARIFIER OIL (Weekly)
- 7: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER (Weekly)
- 8: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 9: BRIDGE FILTER REPAIR (Ongoing)
- 10: WALK-THRU INSPECTION (Monthly)
- 11: WASH DOWN HEADWORKS STEP SCREEN (Daily)
- 12: CLEAN UV TROUGHS, FLUME, AND MANUALLY CHECK U.V. BULBS (Weekly)
- 13: CHECK ELECTRIC MANHOLES (Monthly)
- 14: CLEAN OUT BUILDINGS (Monthly)
- 15: VALVE TO LAGOONS FIXED AT HEADWORKS (Ongoing)
- 16: WASH DOWN CASINO STEPSCREEN (Daily)
- 17: CHECK ALL AUTOMATIC VALVES (Daily)
- 18: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 19: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Randy Cantrell, Crew Leader
Re: Water and Sewer Line Maintenance Monthly Report - July 2022

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Water and Sewer Line Maintenance Monthly Report - July 2022

M & O MONTHLY REPORT

JULY 2022

WATER LEAKS	59
SEWER TAPS	2

DISCONNECTS JULY 6TH AND JULY 7TH

REGULAR WORK ORDERS FROM THE
UTILITY OFFICE, WE HAD 430 WORK ORDERS

CORE AND MAIN HAS THE COLLECTOR AFTER BEING REPAIRED
BY NEPTUNE. THE DRIVE BY IS STAYING STEADY AT LESS THAN
3% EVEN WITH THE COLLECTOR BEING OUT.



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From: Anthony Smallwood, Water Treatment Plant Manager
Re: Water Treatment Plant Monthly Reports - July 2022

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. OK1010601 MOR July2022 Page #2
2. OK1010601 ClO2 MOR July2022
3. OK1010601 Crypto MOR July2022
4. OK1010601 Fluoride MOR July2022
5. OK1010601 LT2 MOR July2022
6. OK1010601 Monthly Report July2022
7. OK1010601 MOR July2022 Page #1

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: DWT
PWSID: 1010601
County: Bryan
Month: July 2022

Durant Utilities Authority

P.O. Box 578

Durant, OK

74702

Day	WATER TREATED (in 1,000 gal)	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.							ALKALINITY - RAW				ALKALINITY - FILTERED				pH			CaCO3 STABILITY Method:	HARDNESS		Special Test		REMARKS					
		FILTERS USED-HOURS									ALUM	POLYMER	Caustic	Fluoride	Chlorite	OTHER	CHLORINE		"	"	AM TOTAL	PM TOTAL	"	"	AM TOTAL					PM TOTAL	RAW	FILT	FILT		RAW	FILT	RAW	FILT	
		1	2	3	4	5	6	7	8								PRE	POST																					
		1	2	3	4	5	6	7	8								1	2								3	4	5											6
1	7228.0	0	24	24	24	24	24	24	24		3400.0	0.0	0.0	99.0	290.0		228.0	152.0	0.0	0.0	96.0	142.0	0.0	0.0	100.0	70.0	7.8	6.9	6.8	226.0	134.00	144.00							
2	7918.0	0	23	23	23	24	24	24	24	120.0	3200.0	0.0	0.0	109.0	290.0		140.0	120.0	0.0	0.0	234.0	240.0	0.0	0.0	192.0	198.0	8.1	7.4	7.5	142.0	236.00	230.00							
3	7435.0	0	24	24	24	23	24	24	24	33.0	3200.0	0.0	0.0	102.0	290.0		172.0	148.0	0.0	0.0	248.0	246.0	0.0	0.0	234.0	230.0	7.9	7.6	7.5	160.0	250.00	240.00							
4	7012.0	0	24	24	24	24	23	23	23	106.0	400.0	0.0	0.0	96.0	290.0		100.0	380.0	0.0	0.0	256.0	254.0	0.0	0.0	242.0	220.0	8.3	7.7	7.4	184.0	250.00	264.00							
5	7310.0	0	23	24	24	24	24	24	24	30.0	2100.0	0.0	0.0	100.0	290.0		0.0	260.0	0.0	0.0	250.0	258.0	0.0	0.0	230.0	230.0	8.0	7.5	7.5	202.0	248.00	250.00							
6	7411.0	0	24	23	23	24	24	24	24	51.0	2300.0	0.0	0.0	102.0	290.0		0.0	180.0	0.0	0.0	242.0	250.0	0.0	0.0	222.0	230.0	8.2	7.7	7.5	228.0	246.00	246.00							
7	8620.0	0	24	24	24	23	24	24	24	33.0	5800.0	0.0	0.0	118.0	290.0		300.0	120.0	0.0	0.0	236.0	110.0	0.0	0.0	226.0	230.0	8.2	7.8	7.6	232.0	246.00	250.00							
8	8399.0	0	23	24	23	24	24	24	24	68.0	6000.0	0.0	550.0	115.0	290.0		287.0	153.0	0.0	0.0	98.0	94.0	0.0	0.0	102.0	68.0	8.3	7.1	7.0	222.0	98.00	134.00							
9	8213.0	0	24	23	24	22	22	22	24	219.0	5200.0	0.0	550.0	113.0	290.0		274.0	146.0	0.0	0.0	96.0	98.0	0.0	0.0	72.0	80.0	8.0	7.3	7.0	134.0	100.00	102.00							
10	6516.0	0	24	24	24	24	24	24	24	0.0	2400.0	0.0	550.0	89.0	290.0		248.0	132.0	0.0	0.0	100.0	244.0	0.0	0.0	74.0	150.0	7.8	7.0	7.0	156.0	130.00	136.00							
11	6779.0	0	24	24	24	24	24	24	24	0.0	2200.0	0.0	0.0	93.0	290.0		200.0	100.0	0.0	0.0	232.0	248.0	0.0	0.0	174.0	216.0	8.3	7.4	7.4	168.0	264.00	226.00							
12	7767.0	0	24	24	24	24	24	23	23	46.0	2100.0	0.0	0.0	107.0	290.0		222.0	148.0	0.0	0.0	250.0	252.0	0.0	0.0	222.0	228.0	8.1	7.5	7.4	104.0	246.00	240.00							
13	7636.0	0	24	24	24	23	23	23	24	86.0	2100.0	0.0	0.0	105.0	290.0		138.0	132.0	0.0	0.0	232.0	246.0	0.0	0.0	220.0	220.0	8.2	7.6	7.4	232.0	230.00	240.00							
14	7760.0	0	24	24	23	24	24	24	24	27.0	2400.0	0.0	0.0	107.0	290.0		153.0	147.0	0.0	0.0	240.0	232.0	0.0	0.0	238.0	218.0	8.2	7.6	7.6	218.0	236.00	254.00							
15	7899.0	0	23	23	24	24	24	24	23	114.0	2200.0	0.0	0.0	108.0	290.0		337.0	323.0	0.0	0.0	240.0	234.0	0.0	0.0	228.0	210.0	8.2	7.7	7.6	234.0	232.00	232.00							
16	7511.0	0	24	24	24	23	23	23	23	139.0	1800.0	0.0	0.0	103.0	290.0		178.0	142.0	0.0	0.0	234.0	234.0	0.0	0.0	220.0	218.0	8.0	7.5	7.6	240.0	240.00	232.00							
17	6569.0	0	24	24	24	24	24	24	24	0.0	2300.0	0.0	0.0	90.0	290.0		200.0	160.0	0.0	0.0	218.0	238.0	0.0	0.0	226.0	220.0	8.2	7.5	7.3	260.0	240.00	246.00							
18	6509.0	0	24	23	23	24	24	24	24	66.0	2000.0	0.0	0.0	89.0	290.0		180.0	120.0	0.0	0.0	224.0	236.0	0.0	0.0	218.0	212.0	8.1	7.5	7.3	256.0	230.00	228.00							
19	6404.0	0	23	24	24	23	23	23	24	169.0	2300.0	0.0	0.0	88.0	290.0		180.0	140.0	0.0	0.0	224.0	246.0	0.0	0.0	220.0	210.0	8.1	7.6	7.4	230.0	236.00	232.00							
20	7197.0	0	24	24	24	24	24	24	23	27.0	2200.0	0.0	0.0	99.0	290.0		180.0	140.0	0.0	0.0	234.0	244.0	0.0	0.0	222.0	212.0	8.1	7.5	7.4	220.0	240.00	234.00							
21	7738.0	0	24	24	24	24	24	24	24	0.0	2200.0	0.0	0.0	106.0	290.0		318.0	262.0	0.0	0.0	236.0	244.0	0.0	0.0	218.0	220.0	8.0	7.5	7.4	212.0	248.00	242.00							
22	7843.0	0	24	24	24	24	23	23	24	74.0	2200.0	0.0	0.0	108.0	290.0		175.0	125.0	0.0	0.0	230.0	240.0	0.0	0.0	220.0	210.0	8.0	7.5	7.5	220.0	236.00	236.00							
23	6928.0	0	23	23	23	23	24	24	24	151.0	2000.0	0.0	0.0	95.0	290.0		171.0	129.0	0.0	0.0	230.0	232.0	0.0	0.0	222.0	206.0	8.2	7.5	7.5	228.0	246.00	270.00							
24	5691.0	0	24	24	24	24	24	24	24	0.0	1600.0	0.0	0.0	78.0	290.0		160.0	120.0	0.0	0.0	248.0	244.0	0.0	0.0	228.0	220.0	8.3	7.4	7.2	236.0	250.00	240.00							
25	6117.0	0	24	24	24	24	24	24	23	23.0	2000.0	0.0	0.0	84.0	290.0		275.0	175.0	0.0	0.0	220.0	246.0	0.0	0.0	218.0	220.0	8.2	7.4	7.4	256.0	226.00	234.00							
26	6614.0	0	24	24	23	24	23	24	24	64.0	2400.0	0.0	0.0	91.0	290.0		195.0	125.0	0.0	0.0	236.0	250.0	0.0	0.0	220.0	220.0	8.1	7.6	7.4	220.0	242.00	240.00							
27	5904.0	0	23	23	24	23	24	23	24	120.0	2300.0	0.0	0.0	81.0	290.0		171.0	129.0	0.0	0.0	226.0	248.0	0.0	0.0	238.0	216.0	8.2	7.6	7.3	214.0	256.00	252.00							
28	6101.0	0	24	24	24	24	24	24	23	24.0	2400.0	0.0	0.0	84.0	290.0		200.0	130.0	0.0	0.0	218.0	240.0	0.0	0.0	224.0	216.0	8.1	7.6	7.4	226.0	226.00	224.00							
29	7679.0	0	24	24	24	24	23	24	24	32.0	2400.0	0.0	0.0	105.0	290.0		177.0	133.0	0.0	0.0	222.0	232.0	0.0	0.0	210.0	220.0	8.1	7.6	7.5	218.0	230.00	224.00							
30	7633.0	0	24	24	24	23	24	23	24	66.0	2400.0	0.0	0.0	105.0	290.0		171.0	129.0	0.0	0.0	244.0	232.0	0.0	0.0	226.0	212.0	8.1	7.4	7.6	220.0	250.00	228.00							
31	7864.0	0	23	24	23	24	24	24	24	66.0	1500.0	0.0	0.0	108.0	290.0		180.0	100.0	0.0	0.0	240.0	230.0	0.0	0.0	218.0	208.0	8.2	7.3	7.3	236.0	244.00	260.00							
Tot	224205.0		736.0	737.0	736.0	734.0	735.0	734.0	737.0	1954.0	79000.0		1650.0	3077.0	8990.0		5910.0	4900.0																					
Avg	7232.4		23.7	23.8	23.7	23.7	23.7	23.7	23.8	65.1	2548.4		53.2	99.3	290.0		190.6	158.1			217.2	225.3			204.0	201.2	8.1	7.5	7.4	210.8	225.4	226.1							
Power Costs		\$35,116.03																																					
Labor Costs		\$49,250.80																																					
Chemicals		\$42,948.41																																					
Supplies		\$1,237.00																																					
Repairs		\$3,389.00																																					
Testing Cost		\$1,200.00																																					
TOTAL		\$133,141.24																																					
Cost per thousand gallons		\$0.59																																					
											Ave Rate of Wash (Vert. in/min)							I hereby certify the above to be correct to the best of my knowledge.																					
											Ave Wash Period (Minutes)							Signed <i>Phillip Hightower</i>										DEQ Form # 630-577 Revised 5/21/2018											
											% Wash Water Used					0.87%		Print Phillip Hightower										Oper. Cert. No. 90404											
											Ave. Head Loss for Washing							Title Public Works Director																					

CHLORINE DIOXIDE AND CHLORITE MOR

Section 1: Data Entry

Date	ClO2 Used?	ClO2 POE	ClO2 Dist.			Chlorite POE	Chlorite Dist.			
			1st	2nd	3rd		1st	2nd	3rd	Avg
1	yes	0.2				0.5				####
2	yes	0.5				0.6				####
3	yes	0.4				0.6				####
4	yes	0.4				0.6				####
5	yes	0.2				0.6				####
6	yes	0.2				0.8				####
7	yes	0.1				0.6				####
8	yes	0.3				0.6				####
9	yes	0.2				0.6				####
10	yes	0.2				0.6				####
11	yes	0.3				0.5				####
12	yes	0.2				0.6				####
13	yes	0.3				0.4				####
14	yes	0.2				0.6				####
15	yes	0.1				0.5				####
16	yes	0.1				0.5				####
17	yes	0.3				0.6				####
18	yes	0.2				0.5				####
19	yes	0.3				0.6				####
20	yes	0.2				0.6				####
21	yes	0.2				0.8				####
22	yes	0.5				0.6				####
23	yes	0.1				0.5				####
24	yes	0.2				0.6				####
25	yes	0.1				0.5				####
26	yes	0.1				0.5				####
27	yes	0.3				0.6				####
28	yes	0.1				0.6				####
29	yes	0.2				0.6				####
30	yes	0.3				0.6				####
31	yes	0.3				0.5				####

Month July Year 2022
PWS Name Durant Water Treatment Plant

PWSID 1010601
Plant Name WTP
Total 31

Section 2: Summary of Chlorine Dioxide Daily Monitoring

a. Number of Samples Collected 31.0
b. Number of Point of Entry Samples Exceeded MRDL of 0.8 mg/L 0.0

*For every day the MRDL is exceeded, three chlorine dioxide samples must be taken the next day in the distribution system. Notify your PWS Engineer. Samples results need to be recorded in ClO2 Dist. columns.*Refer to CHLORINE DIOXIDE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Samples Exceeding MRDL of 0.8 mg/L 0.0

****VERY IMPORTANT. THIS IS A TIER 1 VIOLATION. THIS VIOLATION MUST BE IMMEDIATELY REPORTED TO DEQ AND TO ALL PERSON SERVED BY THE SYSTEM WITHIN 24 HOURS.****

Section 3: Summary of Chlorite Daily Monitoring

a. Number of Samples Collected 31.0
b. Number of Point of Entry Samples Exceeded MCL of 1.0 mg/L 0.0

*For every day the MCL exceeded, three chlorite samples must be taken the next day in the distribution system. Enter sample results in Chlorite Dist. columns and then average. *Refer to CHLORITE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Average exceeding MCL of 1.0 mg/L 0.0

Phillip Hightower

Signature of owner or operator

Phillip Hightower

Printed name

8/2/2022

Date

90404

Operator License #

Send Form by 10th of Following Month to:
Water Quality Division Attn DBP Coord.
P.O. Box 1677 Oklahoma City, Oklahoma 73101-1677



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT

LT2ESWTR CRYPTOSPORIDIUM LOG REMOVAL
RAW WATER LINE

Plant: Durant WTP
PWSID: 1010601
Month: July 2022

		Raw Water Line																		Subtotal		
		Sample Point A						Sample Point B						Sample Point C								
Day	Peak Hourly Flow (GPM)	Temperature (°C)	Chlorine Dioxide Concentration (mg/L)	Detention Time (minutes)	CT (mg*min/L)	CT Required for 1 Log Credit	Log Credit	Temperature (°C)	Chlorine Dioxide Concentration (mg/L)	Detention Time (minutes)	CT (mg*min/L)	CT Required for 1 Log Credit	Log Credit	Temperature (°C)	Chlorine Dioxide Concentration (mg/L)	Detention Time (minutes)	CT (mg*min/L)	CT Required for 1 Log Credit	Log Credit	Subtotal Log Credit (Raw Water Only)	Comments	
	1	6528	27.9	0.13	12.62	1.64	58.22	0.03	28.3	0.15	91.35	13.70	56.23	0.24	27.6	0.17	21.87	3.72	59.77	0.06	0.33	
	2	5001	29.4	0.16	16.47	2.64	51.08	0.05	29.9	0.11	119.24	13.12	48.90	0.27	28.6	0.13	28.55	3.71	54.77	0.07	0.39	
	3	5625	29.3	0.17	14.64	2.49	51.53	0.05	29.1	0.14	106.01	14.84	52.44	0.28	27.3	0.11	25.38	2.79	61.35	0.05	0.38	
	4	5000	29.3	0.21	16.48	3.46	51.53	0.07	29.3	0.40	119.26	47.70	51.53	0.93	27.1	0.16	28.55	4.57	62.43	0.07	1.07	
	5	5000	30.5	0.21	16.48	3.46	46.41	0.07	30.7	0.13	119.26	15.50	45.60	0.34	29.3	0.14	28.55	4.00	51.53	0.08	0.49	
	6	5278	30.1	0.28	15.61	4.37	48.05	0.09	30.5	0.13	112.98	14.69	46.41	0.32	28.7	0.09	27.05	2.43	54.30	0.04	0.45	
	7	5278	30.4	0.25	15.61	3.90	46.81	0.08	31.1	0.15	112.98	16.95	44.04	0.38	29.0	0.07	27.05	1.89	52.89	0.04	0.50	
	8	6458	30.2	0.15	12.76	1.91	47.64	0.04	29.9	0.16	92.34	14.77	48.90	0.30	29.2	0.13	22.11	2.87	51.98	0.06	0.40	
	9	6458	30.5	0.15	12.76	1.91	46.41	0.04	30.5	0.14	92.34	12.93	46.41	0.28	29.2	0.09	22.11	1.99	51.98	0.04	0.36	
	10	6250	30.3	0.15	13.18	1.98	47.22	0.04	30.0	0.16	95.41	15.27	48.48	0.31	28.5	0.13	22.84	2.97	55.25	0.05	0.41	
	11	5695	29.9	0.17	14.46	2.46	48.90	0.05	30.2	0.23	104.71	24.08	47.64	0.51	29.1	0.14	25.07	3.51	52.44	0.07	0.62	
	12	5555	30.4	0.14	14.83	2.08	46.81	0.04	31.1	0.14	107.35	15.03	44.04	0.34	29.9	0.10	25.70	2.57	48.90	0.05	0.44	
	13	5555	30.6	0.20	14.83	2.97	46.00	0.06	31.2	0.17	107.35	18.25	43.66	0.42	30.0	0.16	25.70	4.11	48.48	0.08	0.57	
	14	5555	30.2	0.22	14.83	3.26	47.64	0.07	31.1	0.19	107.35	20.40	44.04	0.46	29.6	0.12	25.70	3.08	50.20	0.06	0.59	
	15	5555	30.0	0.17	14.83	2.52	48.48	0.05	30.3	0.13	107.35	13.95	47.22	0.30	30.1	0.11	25.70	2.83	48.05	0.06	0.41	
	16	5555	29.7	0.21	14.83	3.11	49.76	0.06	30.8	0.23	107.35	24.69	45.21	0.55	30.1	0.15	25.70	3.85	48.05	0.08	0.69	
	17	5555	30.0	0.23	14.83	3.41	48.48	0.07	30.5	0.23	107.35	24.69	46.41	0.53	29.9	0.14	25.70	3.60	48.90	0.07	0.68	
	18	5555	30.4	0.29	14.83	4.30	46.81	0.09	31.0	0.17	107.35	18.25	44.43	0.41	30.1	0.13	25.70	3.34	48.05	0.07	0.57	
	19	5555	30.4	0.30	14.83	4.45	46.81	0.10	31.3	0.20	107.35	21.47	43.28	0.50	30.3	0.22	25.70	5.65	47.22	0.12	0.71	
	20	5555	30.1	0.22	14.83	3.26	48.05	0.07	30.3	0.16	107.35	17.18	47.22	0.36	30.4	0.16	25.70	4.11	46.81	0.09	0.52	
	21	5555	29.2	0.19	14.83	2.82	51.98	0.05	29.7	0.18	107.35	19.32	49.76	0.39	29.1	0.13	25.70	3.34	52.44	0.06	0.51	
	22	5555	27.9	0.23	14.83	3.41	58.22	0.06	28.8	0.24	107.35	25.76	53.83	0.48	28.7	0.20	25.70	5.14	54.30	0.09	0.63	
	23	5555	28.6	0.25	14.83	3.71	54.77	0.07	29.2	0.18	107.35	19.32	51.98	0.37	29.1	0.16	25.70	4.11	52.44	0.08	0.52	
	24	4861	29.6	0.21	16.95	3.56	50.20	0.07	29.8	0.16	122.67	19.63	49.33	0.40	29.5	0.26	29.37	7.64	50.64	0.15	0.62	
	25	4861	30.5	0.20	16.95	3.39	46.41	0.07	31.1	0.18	122.67	22.08	44.04	0.50	29.9	0.10	29.37	2.94	48.90	0.06	0.63	
	26	5208	30.5	0.25	15.82	3.95	46.41	0.09	31.1	0.18	114.50	20.61	44.04	0.47	30.1	0.09	27.41	2.47	48.05	0.05	0.60	
	27	5555	30.1	0.29	14.83	4.30	48.05	0.09	30.9	0.21	107.35	22.54	44.81	0.50	30.1	0.35	25.70	8.99	48.05	0.19	0.78	
	28	5555	30.5	0.23	14.83	3.41	46.41	0.07	31.1	0.19	107.35	20.40	44.04	0.46	30.2	0.22	25.70	5.65	47.64	0.12	0.66	
	29	5555	30.1	0.24	14.83	3.56	48.05	0.07	30.9	0.20	107.35	21.47	44.81	0.48	30.4	0.20	25.70	5.14	46.81	0.11	0.66	
	30	5555	29.1	0.18	14.83	2.67	52.44	0.05	29.5	0.26	107.35	27.91	50.64	0.55	30.4	0.15	25.70	3.85	46.81	0.08	0.68	
	31	5555	27.3	0.19	14.83	2.82	61.35	0.05	27.9	0.25	107.35	26.84	58.22	0.46	27.9	0.21	25.70	5.40	58.22	0.09	0.60	

I hereby certify the above to be correct to the best of my knowledge.

Signed Phillip Hightower

Title Water Treatment Plant Supervisor

Op. Cert. No. B 90404

Oklahoma State Department of Health / Oklahoma Department of Environmental Quality
MONTHLY OPERATION REPORT
RECORD OF FLUORIDE APPLICATION

PWSID 1010601 SYSTEM Durant Ok (SW) MONTH July
Type of Material Applied* Hydrofluorosilicic Acid Year 2022

Date	Water Treated (1000s of Gallons)	Applied		Residual Fluoride (F), ppm			
		lbs.	PPM of F	Raw		Distribution	
				(1)	(2)	(1)	(2)
1	7228	99	0.3	0.00	0.00	0.27	0.30
2	7918	109	0.3	0.00	0.00	0.31	0.62
3	7435	102	0.3	0.00	0.00	0.70	0.32
4	7012	96	0.3	0.00	0.21	0.54	0.52
5	7310	100	0.3	0.00	0.00	0.40	0.59
6	7411	102	0.3	0.26	0.00	0.49	0.38
7	8620	118	0.3	0.00	0.21	0.27	0.72
8	8399	115	0.3	0.00	0.12	0.37	0.40
9	8213	113	0.3	0.12	0.29	0.29	0.68
10	6516	89	0.3	0.00	0.00	0.46	0.61
11	6779	93	0.3	0.13	0.00	0.56	0.31
12	7767	107	0.3	0.11	0.00	0.39	0.42
13	7636	105	0.3	0.08	0.00	0.60	0.40
14	7760	107	0.3	0.07	0.00	0.30	0.31
15	7899	108	0.3	0.00	0.00	0.42	0.46
16	7511	103	0.3	0.00	0.00	0.39	0.22
17	6569	90	0.3	0.00	0.30	0.36	0.47
18	6509	89	0.3	0.00	0.02	0.42	0.77
19	6404	88	0.3	0.01	0.00	0.47	0.40
20	7197	99	0.3	0.00	0.03	0.57	0.42
21	7738	106	0.3	0.00	0.00	0.37	0.34
22	7843	108	0.3	0.00	0.00	0.17	0.52
23	6928	95	0.3	0.00	0.00	0.39	0.37
24	5691	78	0.3	0.00	0.03	0.32	0.41
25	6117	84	0.3	0.22	0.03	0.50	0.68
26	6614	91	0.3	0.14	0.00	0.41	0.48
27	5904	81	0.3	0.15	0.00	0.27	0.65
28	6101	84	0.3	0.01	0.03	0.33	0.44
29	7679	105	0.3	0.10	0.03	0.29	0.48
30	7633	105	0.3	0.00	0.06	0.38	0.40
31	7856	108	0.3	0.00	0.00	0.29	0.51
Total	224197	3077	9.3	1.4	1.36	12.3	14.6
Average	7232	99	0.30	0.05	0.04	0.40	0.47

* Example: Sodium Fluoride, Sodium Fluorosilicate (Sodium Silicofluoride), and Fluorosilicic Acid (Hydrofluorosilicic Acid).

It is required that this report be received by the 10th of the following month.

Send to: OSDH – Dental Health Services
1000 NE 10TH ST
OKLAHOMA CITY, OK 73117-1299

AND

Oklahoma Department of Environmental Quality
PO BOX 1677
OKLAHOMA CITY, OK 73101-1677

I hereby certify the above to be correct to the best of my knowledge.

Signed Phillip Highower
Title Public Works Director
City Durant

Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)
Monthly Operating Report Addendum
INSTRUCTIONS

Instructions: Answer all of the following questions for each individual filter at both plants. **If any IFE measurement is above 0.15 NTU complete and attach the Turbidity Trigger Evaluation form.** Do **not** report IFE turbidities less than 15 minutes after a filter backwash or if the filter is not contributing to the CFE (i.e. filter not operating, filter to waste or recycling, etc.).

Log Requirements

Your system is required to achieve a 2.0-log *Cryptosporidium* credit to be in compliance with the LT2ESWTR. This includes a minimum log credit of 1.0 through the addition of chlorine dioxide, a 0.5-log credit for combined filter performance and a 0.5-log credit for individual filter performance.

- To obtain a 0.5-log *Cryptosporidium* removal credit for IFE turbidity you must meet **both** of the following requirements:
 - IFE turbidity must be less than 0.15 NTU in at least 95 percent of values recorded at **each** filter.
 - No individual filter may have a measured turbidity greater than 0.3 NTU in two consecutive measurements taken 15 minutes apart.
- To obtain a 0.5-log *Cryptosporidium* removal credit for the CFE turbidity the measurements taken for the month at each plant must be equal to or less than 0.15 NTU in at least 95 percent of the measurements.
- The amount of *Cryptosporidium* inactivation log credit your system may receive is determined by the CT provided in the treatment process. The LT2ESWTR requires CT to be calculated at least once per day with both C (chlorine dioxide concentration) and T (contact time) measured during peak hourly flow. Log credit for chlorine dioxide as a function of CT and water temperature is determined using the chlorine dioxide CT table (see reverse) for *Cryptosporidium* inactivation.
 - Log credit should be calculated separately for each section of the raw water line. Total log credit for the raw water line is the sum of the log credit for each section of the raw water line.
 - Log credit should be calculated separately for each clarifier, taking into account the volume of water through each clarifier. Total log credit for the clarifiers should only include the lower of the two clarifier log credits.
 - Total daily log credit is the sum of the log credits for each section of the raw water line and the lower log credit of the two clarifiers.

Note: The LT2ESWTR requires all systems utilizing chlorine dioxide for disinfection to adhere to the Disinfectant Byproducts Rule (DBPR) regarding chlorine dioxide and chlorite monitoring. This requirement also includes the completion and submission of the *Chlorine Dioxide and Chlorite Monitoring and Reporting Form*.

CT Values (mg-min/L) for *Cryptosporidium* Inactivation by chlorine Dioxide¹

Log credit	Water Temperature, °C										
	≤ 0.5	1	2	3	5	7	10	15	20	25	30
0.25	159	153	140	128	107	90	69	45	29	19	12
0.50	319	305	279	256	214	180	138	89	58	38	24
1.00	637	610	558	511	429	360	277	179	116	75	49
1.50	956	915	838	767	643	539	415	268	174	113	73
2.00	1275	1220	1117	1023	858	719	553	357	232	150	98
2.50	1594	1525	1396	1278	1072	899	691	447	289	188	122
3.00	1912	1830	1675	1534	1289	1079	830	536	347	226	147

¹Systems may use this equation to determine log credit between the indicated values:

$$\text{Log credit} = (0.001506 \times (1.09116)^{\text{Temp}}) \times \text{CT}$$



Oklahoma DEQ
Water Quality Division
P.O. Box 1677
Oklahoma City, OK 73101
(405) 702-8100 Fax (405) 702-8101

Durant WTP
OK1010601
Water Treatment Plant—TP001
Month/Year: Month Year

Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)

Monthly Operating Report Addendum

1) INDIVIDUAL FILTER EFFLUENTS (IFEs)

New Water Treatment Plant
Filter #1
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #2
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #3
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #4
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Old Water Treatment Plant
Filter #1
1. Was turbidity measured every 15 minutes? Yes ☐ No ☒
2. Total number of turbidity samples: 0
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #2
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #3
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #4
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒

2) COMBINED FILTER EFFLUENTS (CFEs)

New Water Treatment Plant
1. Was turbidity measured every 4 hours? Yes ☒ No ☐
2. Total number of turbidity samples: 186
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
Old Water Treatment Plant
1. Was turbidity measured every 4 hours? Yes ☒ No ☐
2. Total number of turbidity samples: 186
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0

3) CHLORINE DIOXIDE

Raw Water Line
1. Was the concentration of chlorine dioxide present in each section of the raw water line measured at least once daily during the peak hourly flow? Yes ☒ No ☐
2. Was the contact time for each section of the raw water line calculated at least once per day during peak hourly flow? Yes ☒ No ☐
3. Was the minimum water temperature determined every day? Yes ☒ No ☐
4. Was the log credit for each section of the raw water line calculated daily? Yes ☒ No ☐
Clarifiers
1. Was the concentration of chlorine dioxide present in each clarifier measured at least once daily during the peak hourly flow? Yes ☒ No ☐
2. Was the contact time for each clarifier calculated at least once per day during peak hourly flow? Yes ☒ No ☐
3. Was the minimum water temperature determined every day? Yes ☒ No ☐
4. Was the log credit for each clarifier calculated daily? Yes ☒ No ☐

4) LOG INACTIVATION CREDIT

IFE Credit
1. For the individual filters, were at least 95% of each filter’s turbidity measurements less than or equal to 0.15 NTU? Yes ☒ (answer question 2) No ☐ (log credit 0.0)
2. Did any individual filter have a measured turbidity greater than 0.3 NTU in two consecutive measurements taken 15 minutes apart? Yes ☐ (log credit 0.0) No ☒ (log credit 0.5)
CFE Credit
1. For the combined filters, were at least 95% of each filter’s turbidity measurements less than or equal to 0.15 NTUs? Yes ☒ (log credit 0.5) No ☐ (log credit 0.0)
Chlorine Dioxide Credit
1. Was the required minimum log credit of 1 achieved each day? Yes ☒ (log credit 1.0) No ☐ (log credit 0.0)
Total Log Credit: #

Comments:

#1 Old Plant filter is currently being installed as of 08/02/2022. Hopefully within the week we will be back online with filter #1.

I hereby certify the above to be correct to the best of my knowledge.

Printed Name: Phillip Hightower Signature: *Phillip Hightower* Date: 8/2/2022

Title: Public Works Director Op. Cert. No.: B90404

* The Department of Environmental Quality may at any time request additional information or perform an audit.



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule July 2022 Monthly Report

A. Work Completed

1. Calibrate lab instruments daily
2. Maintained Water Plant
3. Cleaned all buildings weekly
4. Backwashed filters as needed
5. Backwashed raw pumps weekly
6. Hooked up chlorine tanks and checked for leaks
7. Unload chemicals as they arrived
8. Pulled sludge as needed
9. Run daily chlorine dioxide samples on raw line
10. Flushed alum pumps
11. Inspected fire extinguishers
12. Pulled required water samples and send to ODEQ
13. Clean turbidity meters as needed
14. Cleaned screens on CLO2 generator as needed
15. Mowed and weedeated Plant grounds when needed
16. Continue training Stephen Mills, Jacob Eppler, Frank Enea, Lance Canoy, Tyler Weaver, Marc Brittain
17. Treated 224,205,000 gallons of water (28.6% increase over previous month)
18. Exercise welder, diesel pump, and generator
19. Filter #1 is ready for underdrain to be installed. Will start first week of August.
20. Continue to remove storm damage from plant and towers
21. Responded to multiple power blinks
22. Replaced motor and gearbox on Center Drive on Old Plant Clarifier
23. Replaced faulty air conditioning unit at 9th Street Pump Station
24. Repaired motor on diesel day tank pump
25. Repaired and fixed leak in Cl2 post line
26. Repaired office air conditioner
27. Repaired and cleaned lab ice machine
28. Repaired fuel transfer pump on welder
29. Repaired filters #2

B. Work Planned for July-August

Approx. Start/Finish Date

- | | |
|---|--|
| 1. Repair #1 raw Pump | Time permitting |
| 2. Repair #3 raw Pump | Time permitting |
| 3. Have towers inspected and cleaned | Time permitting |
| 4. Replace underdrains in Old Plant Filters | #1 Filter in progress. #3 and #4 will be started when weather allows us to lower the flow so they can be taken down. |
| 5. Install pad for generator at Chlorites | As parts arrive. Weather Permitting |
| 6. Empty, clean, and paint Alum tanks | Weather and time permitting |
| 7. Update SCADA | As parts arrive |
| 8. Install Rip Rap at Raw Pump Station | Gathering quotes now. |

C. Projects Planned and Requested for Authorization

None at this Time



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)- LT2 ADDENDUM NEEDED
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: **DWT**

PWSID: **1010601**

County: **Bryan**

Month/Year: **July 2022**

Durant Utilities Authority
System

P.O. Box 578
Address

Durant, OK
City

74702
Zip

Instructions:

If there are no combined filter turbidity readings or free chlorine residual sample results at the entry point to the distribution system due to the plant not running, write **OFF** in the box.

Two (2) distribution chlorine residuals **must be taken daily**, even if the plant is not running.

Mail the original by the 10th of the following month to:
Oklahoma DEQ, Water Quality Division, P.O. Box 1677, Oklahoma City, OK 73101

Combined Filter Turbidity	
Total number of turbidity readings required	186
Total number of turbidity readings	186
Number of turbidity readings above 1 NTU	0
HIGHEST turbidity reading	0.14
Number of turbidity readings above 0.15 NTU	0
Percent of turbidity readings above 0.15 NTU	0.00%
Free Chlorine-Entry Point to Distribution	
Total number of chlorine residual samples	186
Number of samples below 1.0 mg/L	0
Free Chlorine-Distribution	
Total number of chlorine residual samples	62
Number of samples below 0.2 mg/L	0

Individual Filter Turbidity - Complete Entire Checklist
1. Was Each Filter Monitored continuously while the plant was running? ☐ No ☒ Yes
2. Was each filter monitored every 15 minutes while the plant was running? ☐ No ☒ Yes
3. Was there a failure of the continuous monitoring equipment? ☒ No ☐ Yes
4. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings? ☒ No ☐ Yes*
5. Was individual filter level greater than 0.5 NTU in two consecutive measurements after being on line for more than four hours? ☒ No ☐ Yes*
6. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings for three months in a row? ☒ No ☐ Yes* (Submit a Self-Assessment of the filter(s) within 14 days of the exceedance)
7. Did the same filter exceed 2.0 NTU in two consecutive 15 minute readings for two months in a row? ☒ No ☐ Yes* (Contact DEQ to schedule a Comprehensive Performance Evaluation)

				# of Readings***	COMBINED FILTER TURBIDITY						FREE CHLORINE RESIDUAL								COMMENTS
DAY	RAW	SET	SET		2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION SYSTEM		
											12am	4am	8am	12pm	4pm	8pm			
1	31.80	3.12	2.23	6	0.05	0.04	0.04	0.07	0.08	0.05	2.3	2.2	2.1	2.0	2.5	2.7	1.9	2.0	
2	8.40	2.84	2.23	6	0.11	0.06	0.04	0.04	0.04	0.04	3.2	3.4	3.5	3.4	3.0	3.5	1.3	2.1	
3	6.17	2.40	2.60	6	0.12	0.06	0.05	0.04	0.05	0.05	3.2	3.2	3.2	2.9	2.5	3.0	1.4	2.1	
4	6.24	2.61	2.80	6	0.07	0.10	0.05	0.09	0.05	0.05	2.5	2.8	3.5	3.2	3.4	3.4	1.2	3.0	
5	4.74	2.79	2.15	6	0.06	0.07	0.07	0.06	0.06	0.06	3.4	3.3	2.4	1.9	1.2	1.3	2.0	2.4	
6	3.92	3.15	3.05	6	0.07	0.07	0.07	0.09	0.06	0.06	1.9	2.8	2.7	2.8	2.6	2.4	1.6	1.1	
7	2.23	3.95	3.40	6	0.11	0.07	0.07	0.07	0.10	0.14	2.4	2.3	2.3	2.4	2.0	2.4	1.8	1.5	
8	18.11	1.35	2.04	6	0.12	0.13	0.11	0.10	0.12	0.14	2.3	2.4	2.2	2.1	2.1	2.0	1.6	1.3	
9	4.74	1.73	2.23	6	0.13	0.13	0.13	0.11	0.12	0.13	2.0	2.2	2.0	1.9	1.7	1.5	0.9	1.0	
10	5.90	2.00	2.29	6	0.14	0.11	0.11	0.11	0.12	0.14	1.6	1.6	2.1	2.0	2.1	3.4	1.3	1.8	
11	7.29	2.71	2.95	6	0.13	0.14	0.14	0.14	0.06	0.06	3.5	3.3	3.2	3.0	2.4	2.6	0.6	2.3	
12	8.92	3.60	3.20	6	0.07	0.11	0.08	0.12	0.09	0.09	2.7	2.7	2.8	2.4	2.0	3.0	2.1	2.1	
13	16.44	4.36	2.73	6	0.14	0.13	0.08	0.08	0.07	0.07	3.0	3.2	3.3	2.9	2.3	2.8	2.9	1.7	
14	10.60	3.40	3.54	6	0.09	0.07	0.07	0.07	0.06	0.06	2.8	2.9	2.8	2.8	2.4	2.6	0.6	2.3	
15	10.70	2.86	3.13	6	0.08	0.10	0.06	0.07	0.06	0.08	2.8	3.0	2.9	2.6	2.3	2.6	1.6	2.1	
16	8.92	4.18	5.43	6	0.14	0.12	0.07	0.13	0.11	0.11	2.8	2.8	2.9	2.2	2.8	3.9	1.9	2.2	
17	10.60	3.40	2.76	6	0.12	0.14	0.13	0.13	0.10	0.06	3.3	3.1	3.1	3.0	2.8	3.2	1.2	2.0	
18	5.55	2.55	2.65	6	0.06	0.10	0.06	0.06	0.05	0.05	3.2	3.2	3.3	3.3	3.0	3.2	1.9	0.9	
19	4.76	2.72	3.23	6	0.12	0.06	0.06	0.06	0.09	0.12	3.2	3.2	3.3	2.9	2.7	3.0	2.2	2.3	
20	3.09	3.68	2.29	6	0.10	0.14	0.07	0.07	0.07	0.06	3.4	3.2	3.4	2.9	2.7	3.0	2.1	2.0	
21	6.46	2.76	2.76	6	0.06	0.06	0.06	0.06	0.06	0.06	3.1	3.1	3.0	3.1	2.9	2.7	1.1	2.1	
22	12.45	6.39	2.98	6	0.06	0.14	0.08	0.07	0.07	0.07	2.8	3.2	3.3	2.9	2.8	3.1	1.5	1.9	
23	10.60	2.93	2.73	6	0.09	0.12	0.06	0.05	0.09	0.10	3.2	2.9	3.1	2.9	2.4	2.7	1.8	2.2	
24	28.10	2.82	2.75	6	0.08	0.07	0.06	0.06	0.06	0.08	2.8	2.7	2.8	2.7	2.2	2.6	2.2	1.9	
25	10.50	2.91	3.53	6	0.10	0.05	0.04	0.04	0.04	0.04	2.7	2.8	2.8	2.6	2.0	2.5	1.5	1.9	
26	6.46	3.15	2.82	6	0.10	0.06	0.05	0.11	0.12	0.14	2.6	2.7	2.6	2.3	2.2	2.7	1.8	1.4	
27	9.08	2.44	2.70	6	0.13	0.08	0.06	0.06	0.06	0.06	2.8	2.9	2.9	2.2	2.2	2.6	1.7	2.1	
28	8.53	2.40	2.60	6	0.06	0.06	0.14	0.07	0.13	0.11	2.7	2.7	2.7	2.4	2.2	2.7	2.1	2.0	
29	9.90	3.31	2.75	6	0.07	0.14	0.07	0.06	0.06	0.09	2.8	2.7	2.7	2.6	2.3	2.6	1.8	1.9	
30	10.79	3.31	2.58	6	0.12	0.13	0.13	0.12	0.09	0.09	2.7	2.7	2.8	2.6	2.5	2.7	1.6	2.0	
31	10.80	2.57	2.51	6	0.13	0.11	0.08	0.07	0.11	0.11	2.7	2.8	2.7	2.7	2.5	2.6	1.5	2.3	

*** Number of Readings: You are required to sample the combined effluent for every four hours that the filters are in operation. You must fill out Filter Operation on the 'Chemical and Process Control tab.'

* If you answered Yes to questions 4, 5 (>10,000 population only), 6, or 7, you must complete the Turbidity Trigger Form, follow instruction on the form, and attach it to this MOR.



The City of Durant

Memorandum

Date: 8/9/2022
To: Mayor and City Council
From:
Re: Administration

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS: