

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**

January 10, 2023

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 December 13, 2022

2. Consider Items Removed from Consent

3. Information Items

- a. Solid Waste Collection Monthly Report - December 2022
- b. Utility Billing Monthly Report – December 2022
- c. Waste Water Treatment Plant Monthly Report - December 2022
- d. Water/Sewer Line Maintenance Monthly Report - December 2022
- e. Water Treatment Plant Monthly Report- December 2022

4. Administration

5. New Business

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 8th day of November, 2022 and that an agenda of said meeting was posted at the place of such meeting at 3:00 p.m. on the 5th day of January, 2023.

A handwritten signature in cursive script, reading "Cynthia J. Price".

Cynthia J. Price, City of Durant



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of December 13, 2022

Council Information / Action Requested

Approval of Regular Meeting Minutes of December 13, 2022

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

ATTACHMENTS:

1. Durant City Utilities Authority Minutes 12132022 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 8th day of November, 2022 and that an agenda of said meeting was posted at the place of such meeting at 4:40 p.m. on the 8th day of December, 2022.



Cynthia J. Price, City of Durant

**MINUTES OF THE MEETING OF DURANT CITY UTILITIES AUTHORITY
December 13, 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 6:43 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 Lisa Taylor
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 November 8, 2022

Motion To: Approve Consent Item 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. Solid Waste Collection Monthly Report - November 2022
- b. Solid Waste Landfill Monthly Report - November 2022
- c. Utility Billing Monthly Report - November 2022
- d. Water and Sewer Line Maintenance Monthly Report - November 2022
- e. Water Treatment Plant Monthly Report - November 2022

4. Administration

5. New Business

There was no new business.

ADJOURNMENT

Motion To: Adjourn Meeting

Motion By: Humphrey Miller

Seconded By: Danny Sherrer

Ayes: Brittingham, Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None



The City of Durant

Memorandum

Date: 1/10/2023
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: 1/10/2023
To: Mayor and City Council
From: Jared Dillingham, Superintendent
Re: Solid Waste Collection Monthly Report - December 2022

Solid Waste Collection Monthly Report - December 2022

Council Information / Action Requested

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

ATTACHMENTS:

1. Monthly Report December 22



THE CITY OF DURANT

Office of the Solid Waste Manager

SOLID WASTE PROJECTS

December 2022

A. Work Completed:

1. Hauled 12.71 tons of extra hauling
2. Hauled 5 loads of extra hauling
3. Picked up and delivered 7 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 0 times
6. Replaced 10 dumpsters with new
7. Cleaned dead ends of Cemetery rd. 0 time

B. Work Planned For January 2023

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: 1/10/2023
To: Mayor and City Council
From:
Re: [Water Treatment Plant Monthly Report - December 2022](#)

Council Information / Action Requested

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

ATTACHMENTS:



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From: Stephanie Barfield, Supervisor
Re: Utility Billing Monthly Report - December 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. Utility Billing Monthly Report - December 2022



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

DECEMBER 2022

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	6222		6325		6753	
Total Revenue Billed	\$258,476.82	\$2,307,983.98	\$139,827.65	\$1,505,781.54	\$365,460.97	\$1,885,546.64
TOTAL CASH RECEIPTS	\$324,869.72	\$2,251,709.06	\$180,226.91	\$1,089,022.39	\$266,743.83	\$1,740,221.00

CONSUMPTION IN GALLONS	101,578,200
------------------------	-------------

NEW SERVICE APPLICATIONS 61
 NUMBER OF WALK IN/PHONE PAYMENTS 635
 MAIL PAYMENTS 643
 CREDIT CARD PAYMENTS 480
 WEB PAYMENTS 2,258
 DROP BOX PAYMENTS 337
 BANK DRAFT PAYMENTS 1,001
 CREDIT CARD DRAFT PAYMENTS 669
 KIOSK 895
 CYCLE 1 PENALTIES 673
 CYCLE 1 CUT OFFS None in Dec
 CYCLE 2 PENALTIES 770
 CYCLE 2 CUT OFFS None in Dec



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

DECEMBER 2021

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	7137		6197		6902	
Total Revenue Billed	\$315,508.51	\$2,238,352.14	\$204,461.16	\$9,987,741.63	\$367,083.34	\$2,251,308.85
Adjustments in Dollar	(\$8,154.60)	(\$57,729.56)	(\$34,222.26)	(\$171,319.08)	(\$7,510.54)	(\$63,264.66)
TOTAL CASH RECEIPTS	\$260,052.56	\$1,599,220.52	\$103,080.65	\$602,205.78	\$206,844.91	\$1,180,228.28

CONSUMPTION IN GALLONS	86,480,900
------------------------	------------

NEW SERVICE APPLICATIONS	114
NUMBER OF WALK IN/PHONE PAYMENTS	1,083
MAIL PAYMENTS	1,138
CREDIT CARD PAYMENTS	1,276
WEB PAYMENTS	1,762
DROP BOX PAYMENTS	414
BANK DRAFT PAYMENTS	677
CREDIT CARD DRAFT PAYMENTS	374
KIOSK	1,347
OTHERS	



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From: Ray Anthony, Superintendent
Re: Waste Water Treatment Plant Monthly Report - December 2022

Council Information / Action Requested

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

ATTACHMENTS:

1. WWTP LAB Report
2. WWTP Projects



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

12/1/22 to 12/31/22

Tests Processed

<u>63</u> Bac-T's	<u>49</u> React's
<u>75</u> BOD's	<u>33</u> COD
<u>16</u> TSS's	<u>49</u> MLSS
<u>27</u> NH3's	<u>49</u> Volatile Analysis
<u>62</u> DO's	<u>62</u> pH's
<u>00</u> Ecoli's	<u>02</u> FOG's
<u>20</u> cBOD's	<u>00</u> Total Solids
<u>17</u> Settleable Solids	<u>49</u> Settleometer Test
<u>00</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 DONE FOR DECEMBER 2022

- 1: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 2: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 3: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 4: BRIDGE FILTER REPAIR (Ongoing)
- 5: VALVE TO LAGOONS FIXED AT HEADWORKS (Ongoing)
- 6: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 7: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)
- 8: MIXER MOTOR FOR BLEND TANK REPAIRED (Ongoing)
- 9: REPLACEING BULBS, SLEEVES, BALLEST, AND BOARDS ON UV'S (Ongoing)

WORK PLANNED FOR JANUARY 2023

- 1: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED
- 2: CONVERT SAMPLER TO WORK WITH WONDERWARE
- 3: FIX CHOCTAW SCREEN PRESS PUMP
- 4: BRIDGE FILTER REPAIR
- 5: VALVE TO LAGOONS FIXED AT HEADWORKS
- 6: SCUM PUMP STATION PUT ON FLOATS
- 7: INSTALL NEW LEVEL CONTROL AT HEADWORKS
- 8: MIXER MOTOR FOR BLEND TANK REPAIRED
- 9: REPLACEING BULBS, SLEEVES, BALLEST, AND BOARDS ON UV'S
- 10: SBR #2 AIRLINE FIXED



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From: Randy Cantrell, Crew Leader
Re: Water/Sewer Line Maintenance Monthly Report- December 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. DECEMBER 2022 MONTHLY REPORT FOR M&O

M & O MONTHLY REPORT

DECEMBER 2022

WATER LEAKS	21
WATER TAPS	3
SEWER TAPS	4

REGULAR WORK ORDERS FROM THE
UTILITY OFFICE, WE COMPLETED 363 WORK ORDERS

CORE AND MAIN WILL BE DOWN THE MONTH OF JANUARY TO
INSTALL THE COLLECTOR. THE DRIVE BY IS STAYING STEADY AT
LESS THAN 3% EVEN WITH THE COLLECTOR BEING OUT.



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From: Anthony Smallwood, Water Treatment Plant Manager
Re: Water Treatment Plant Monthly Report - December 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. OK1010601 Monthly Report December2022
2. OK1010601 CI02 MOR December2022
3. OK1010601 Fluoride MOR December2022
4. OK1010601 LT2 MOR December2022
5. OK1010601 MOR December2022 Page #1
6. OK1010601 MOR December2022 Page #2



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule December 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. Inspected eye wash/shower stations
13. Pulled required water samples and send to ODEQ
14. Clean turbidity meters as needed
15. Cleaned screens on CLO2 generator as needed
16. Mowed and weedeated Plant grounds when needed
17. Continue training
18. Treated 158,660,000 gallons of water
19. Exercise welder, diesel pump, and generator
20. Completed TOC and Fluoride sampling
21. Flushed end points on water lines
22. Restored communications to Raw Pump Station
23. Responded to Power Outage at Plant
24. Filter #3 underdrain installed
25. Restored communications to Big Lots Pump Station
26. Repaired doors at Cardinal Glass Pump Station, Chlorites Building, and Big Lots Pump Station
27. Minor road repair at plant
28. Hired new operator
29. Fixed several windows throughout plant
30. Removed trees from Lake Durant Dam

B. Work Planned for December-January

1. Repair #1 raw Pump
2. Repair #3 raw Pump
3. Have towers inspected and cleaned
4. Replace underdrains in Old Plant Filters
5. Install pad for generator at Chlorites
6. SCADA installation
7. Install back up backwash pump

Approx. Start/Finish Date

As time permits
Waiting on Quotes/As time permits
Time permitting
#3 underdrain installed, not online at this time
Weather and time permitting
Waiting for additional equipment to complete
Waiting on pump to be delivered

C. Projects Planned and Requested for Authorization

None at this Time

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	0.3				0.9				####
2	yes	0.2				0.9				####
3	yes	0.3				0.8				####
4	yes	0.3				0.8				####
5	yes	0.3				0.9				####
6	yes	0.3				0.9				####
7	yes	0.3				0.8				####
8	yes	0.3				0.9				####
9	yes	0.3				0.9				####
10	yes	0.3				0.8				####
11	yes	0.3				0.8				####
12	yes	0.3				0.9				####
13	yes	0.3				0.8				####
14	yes	0.3				0.8				####
15	yes	0.3				0.8				####
16	yes	0.3				0.8				####
17	yes	0.2				0.8				####
18	yes	0.2				0.8				####
19	yes	0.3				0.9				####
20	yes	0.3				0.9				####
21	yes	0.3				0.8				####
22	yes	0.3				0.8				####
23	yes	0.2				0.8				####
24	yes	0.1				0.8				####
25	yes	0.2				0.9				####
26	yes	0.3				0.7				####
27	yes	0.3				0.7				####
28	yes	0.3				0.7				####
29	yes	0.3				0.7				####
30	yes	0.4				0.7				####
31	yes	0.4				0.7				####

Month December 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

1/4/2023
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 State Department of Health / Oklahoma Department of Environmental Quality
MONTHLY OPERATION REPORT
RECORD OF FLUORIDE APPLICATION

PWSID 1010601 SYSTEM Durant Ok (SW) MONTH December
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	4777	87	0.3	0.00	0.02	0.55	0.51
2	5096	93	0.3	0.05	0.10	0.73	0.51
3	5056	93	0.3	0.00	0.18	0.64	0.68
4	4266	78	0.3	0.24	0.00	0.87	0.61
5	4390	80	0.3	0.07	0.00	0.67	0.91
6	4909	90	0.3	0.07	0.02	0.70	0.41
7	5878	108	0.3	0.07	0.00	0.75	0.62
8	6559	120	0.3	0.10	0.01	0.48	0.72
9	4917	68	0.3	0.29	0.05	0.67	0.54
10	4629	64	0.3	0.00	0.16	0.86	0.71
11	4198	58	0.3	0.00	0.17	0.87	0.83
12	4194	58	0.3	0.00	0.17	0.40	0.51
13	4167	57	0.3	0.03	0.00	0.80	0.70
14	4772	66	0.3	0.00	0.00	0.88	0.67
15	5330	73	0.3	0.00	0.00	0.66	0.58
16	4918	68	0.3	0.03	0.06	0.77	0.65
17	3787	52	0.3	0.57	0.10	1.28	0.67
18	3518	48	0.3	0.28	0.24	1.05	0.86
19	4443	61	0.3	0.15	0.12	1.03	0.85
20	5181	71	0.3	0.00	0.05	0.57	0.70
21	5616	77	0.3	0.00	0.09	0.71	0.68
22	5127	70	0.3	0.00	0.00	0.44	0.37
23	4856	67	0.3	0.00	0.20	0.78	0.88
24	5630	77	0.3	0.00	0.24	0.49	0.78
25	6185	85	0.3	0.22	0.12	0.67	0.64
26	6494	89	0.3	0.38	0.11	0.83	0.85
27	6629	91	0.3	0.11	0.09	0.72	0.90
28	6672	92	0.3	0.00	0.19	0.58	0.75
29	6037	83	0.3	0.17	0.24	1.05	0.55
30	5342	73	0.3	0.07	0.09	0.67	0.55
31	5087	70	0.3	0.40	0.23	0.85	0.53
Total	158660	2367	9.3	3.3	3.05	23.02	27.97
Average	5118.1	76.4	0.3	0.1	0.1	0.74	0.81

* 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 (IFE)s

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: 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: 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 #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:

#4 Old Plant filter was put offline to replace underdrains. The goals is to have this filter back online early January 2023.

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

Printed Name: Phillip Hightower Signature: *Phillip Hightower* Date: 12/4/2022

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

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



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: **December 2022**

Durant Utilities Authority

P.O. Box 578

Durant, OK

74702

System

Address

City

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)

* 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.

				# 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	17.35	6.62	6.62	6	0.12	0.09	0.09	0.09	0.08	0.10	2.6	2.8	3.3	2.7	2.8	2.9	1.5	1.4	
2	5.42	2.33	2.33	6	0.11	0.06	0.07	0.08	0.07	0.04	2.9	3.1	3.2	3.1	3.1	3.0	2.0	1.8	
3	3.70	2.51	2.51	6	0.12	0.13	0.07	0.04	0.08	0.08	3.0	2.8	2.8	2.8	2.7	2.6	0.9	2.0	
4	3.70	5.52	5.52	6	0.09	0.08	0.06	0.05	0.07	0.09	2.7	2.3	1.8	1.6	1.5	3.9	1.9	1.0	
5	4.64	2.06	2.06	6	0.07	0.07	0.07	0.08	0.08	0.06	4.0	3.9	3.5	3.4	2.9	2.5	2.8	1.5	
6	3.86	6.75	6.75	6	0.04	0.05	0.04	0.06	0.08	0.10	2.7	2.5	2.5	2.4	2.4	3.3	1.6	1.8	
7	4.17	1.30	1.30	6	0.09	0.07	0.06	0.05	0.04	0.05	3.0	3.2	3.2	2.9	3.0	3.8	2.7	2.2	
8	12.95	3.58	2.25	6	0.06	0.06	0.12	0.08	0.07	0.06	3.9	4.0	4.0	3.5	3.1	2.8	2.4	2.1	
9	29.14	3.13	2.78	6	0.09	0.07	0.07	0.05	0.07	0.04	2.7	2.8	2.9	2.8	2.8	2.7	0.9	2.2	
10	7.47	2.24	1.88	6	0.03	0.03	0.03	0.03	0.03	0.03	2.7	2.7	2.6	2.5	2.5	2.5	2.0	1.8	
11	4.17	1.11	1.34	6	0.03	0.03	0.03	0.03	0.02	0.02	2.5	2.6	2.7	2.7	2.7	2.7	1.8	1.9	
12	4.63	3.77	3.74	6	0.05	0.05	0.04	0.04	0.02	0.02	2.7	2.8	2.9	2.7	2.6	2.3	2.0	1.4	
13	4.48	2.82	4.94	6	0.04	0.03	0.02	0.02	0.02	0.05	2.3	2.4	2.5	2.5	2.3	2.5	1.8	1.6	
14	109.80	3.96	5.77	6	0.07	0.08	0.09	0.08	0.04	0.03	2.5	2.3	2.1	2.1	2.3	2.4	1.6	1.5	
15	43.11	2.14	2.16	6	0.03	0.04	0.03	0.02	0.02	0.02	2.4	2.6	2.8	3.0	2.8	2.9	1.5	1.4	
16	21.43	2.15	2.27	6	0.02	0.02	0.02	0.02	0.02	0.02	2.9	2.9	3.0	3.1	3.0	2.9	2.0	1.6	
17	12.79	1.95	1.45	6	0.02	0.02	0.02	0.02	0.02	0.02	2.8	2.8	2.9	2.9	2.9	2.8	1.9	1.9	
18	11.06	2.08	3.48	6	0.03	0.07	0.02	0.02	0.02	0.02	2.6	2.6	2.8	3.0	3.0	2.7	2.0	2.1	
19	6.67	3.42	3.10	6	0.02	0.03	0.03	0.02	0.03	0.03	2.8	2.7	2.7	2.9	2.6	2.9	2.1	1.8	
20	8.56	5.64	3.69	6	0.04	0.03	0.02	0.05	0.05	0.06	2.9	2.3	2.3	2.4	2.4	2.4	1.8	1.4	
21	6.99	5.16	4.49	6	0.05	0.06	0.07	0.05	0.05	0.05	2.3	2.3	2.3	2.3	2.0	2.0	1.2	1.3	
22	5.41	3.49	3.18	6	0.03	0.04	0.05	0.03	0.04	0.05	2.0	2.0	2.1	2.1	2.2	2.3	1.7	0.6	
23	4.48	4.34	4.67	6	0.05	0.08	0.08	0.09	0.05	0.04	2.3	2.4	2.5	2.7	2.5	2.7	1.9	2.7	
24	6.66	5.38	5.80	6	0.08	0.08	0.09	0.09	0.08	0.10	2.3	2.3	2.4	2.4	2.3	2.2	2.0	2.0	
25	8.88	8.15	6.69	6	0.09	0.11	0.13	0.14	0.14	0.14	2.2	2.3	2.8	2.3	2.2	2.2	1.2	2.0	
26	8.56	6.44	7.00	6	0.14	0.11	0.13	0.10	0.09	0.12	2.2	1.7	1.6	2.5	2.7	3.2	1.5	1.3	
27	10.13	7.37	5.70	6	0.10	0.04	0.14	0.10	0.12	0.12	3.2	3.3	3.5	3.5	3.4	2.8	3.3	3.1	
28	9.92	6.81	5.11	6	0.12	0.11	0.12	0.13	0.09	0.09	2.8	3.1	3.1	2.9	2.5	2.2	2.0	2.3	
29	4.01	2.84	2.72	6	0.09	0.08	0.06	0.08	0.09	0.10	2.2	2.2	2.2	2.1	1.8	1.7	1.9	1.9	
30	4.17	2.43	2.47	6	0.10	0.07	0.04	0.03	0.03	0.03	1.8	1.9	1.9	2.0	1.8	1.5	1.9	1.7	
31	1.97	2.15	1.64	6	0.03	0.03	0.03	0.05	0.05	0.06	1.5	1.8	1.8	1.9	1.9	1.6	1.8	1.4	

*** 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.'

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

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

Durant Utilities Authority										P.O. Box 578										Durant, OK										74702									
System										Address										City										ZIP									
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	PM	AM	PM	RAW	FILT					FILT	RAW	FILT	RAW		FILT					
		1	2	3	4	5	6	7	8								PRE	POST							"P"	"P"	TOTAL								TOTAL	"P"	"P"	TOTAL	TOTAL
1	4777.0	24	24	0	24	23	23	23	23	140.0	1920.0	42.0	275.0	87.0	290.0		110.0	110.0	0.0	0.0	194.0	212.0	0.0	0.0	170.0	188.0	7.5	6.7	6.9	178.0	210.00	204.00							
2	5096.0	24	24	0	24	23	22	22	22	245.0	4080.0	42.0	0.0	93.0	290.0		110.0	120.0	0.0	0.0	204.0	212.0	0.0	0.0	180.0	198.0	7.7	7.7	6.9	186.0	220.00	210.00							
3	5056.0	24	24	0	24	22	23	22	23	205.0	1760.0	42.0	0.0	93.0	290.0		100.0	110.0	0.0	0.0	220.0	220.0	0.0	0.0	192.0	190.0	7.6	6.8	7.0	200.0	232.00	230.00							
4	4266.0	24	24	0	24	23	23	23	23	140.0	1520.0	34.0	0.0	78.0	290.0		100.0	110.0	0.0	0.0	214.0	234.0	0.0	0.0	220.0	206.0	7.7	7.1	6.9	206.0	228.00	226.00							
5	4390.0	24	24	0	24	23	23	23	23	140.0	1280.0	43.0	0.0	80.0	290.0		90.0	100.0	0.0	0.0	256.0	238.0	0.0	0.0	244.0	210.0	8.0	7.2	7.1	204.0	222.00	210.00							
6	4909.0	24	24	0	24	24	23	23	24	70.0	1840.0	60.0	0.0	90.0	290.0		110.0	120.0	0.0	0.0	236.0	246.0	0.0	0.0	206.0	214.0	7.1	7.0	6.9	210.0	264.00	250.00							
7	5878.0	24	24	0	24	23	24	24	23	70.0	2800.0	61.0	0.0	108.0	290.0		150.0	130.0	0.0	0.0	240.0	250.0	0.0	0.0	242.0	232.0	7.8	7.1	7.1	230.0	250.00	242.00							
8	6559.0	23	23	0	23	24	24	22	24	175.0	6400.0	44.0	0.0	120.0	290.0		210.0	120.0	0.0	0.0	190.0	220.0	0.0	0.0	220.0	226.0	7.5	7.1	7.0	218.0	200.00	244.00							
9	4917.0	24	24	0	24	23	23	23	24	100.0	2240.0	40.0	412.5	68.0	290.0		110.0	120.0	0.0	0.0	194.0	210.0	0.0	0.0	152.0	156.0	7.8	6.9	6.8	236.0	210.00	210.00							
10	4629.0	24	24	0	24	24	24	24	24	0.0	2240.0	35.0	412.5	64.0	290.0		100.0	110.0	0.0	0.0	220.0	228.0	0.0	0.0	170.0	178.0	7.8	7.3	6.9	184.0	232.00	220.00							
11	4198.0	24	24	0	24	24	24	24	23	35.0	2080.0	35.0	412.5	58.0	290.0		100.0	100.0	0.0	0.0	220.0	236.0	0.0	0.0	200.0	200.0	7.5	7.0	7.2	180.0	230.00	220.00							
12	4194.0	23	23	0	23	24	24	24	24	100.0	2000.0	35.0	412.5	58.0	290.0		100.0	90.0	0.0	0.0	230.0	244.0	0.0	0.0	200.0	210.0	7.7	7.2	7.1	200.0	262.00	232.00							
13	4167.0	24	24	0	24	23	23	24	24	70.0	3520.0	35.0	0.0	57.0	290.0		180.0	90.0	0.0	0.0	230.0	110.0	0.0	0.0	204.0	212.0	7.6	7.1	6.9	210.0	242.00	240.00							
14	4772.0	24	24	0	24	23	23	23	24	105.0	5840.0	45.0	550.0	66.0	290.0		230.0	130.0	0.0	0.0	110.0	136.0	0.0	0.0	152.0	110.0	7.0	6.9	6.8	212.0	146.00	204.00							
15	5330.0	24	23	0	24	24	24	24	23	68.0	4640.0	45.0	275.0	73.0	290.0		230.0	130.0	0.0	0.0	150.0	176.0	0.0	0.0	84.0	118.0	7.4	6.8	6.8	180.0	162.00	160.00							
16	4918.0	23	24	0	23	24	24	24	24	65.0	3760.0	43.0	1375.0	68.0	290.0		130.0	90.0	0.0	0.0	160.0	166.0	0.0	0.0	110.0	110.0	7.5	6.9	6.8	134.0	180.00	162.00							
17	3787.0	24	24	0	24	24	24	24	24	0.0	1600.0	28.0	825.0	52.0	290.0		110.0	80.0	0.0	0.0	172.0	180.0	0.0	0.0	140.0	130.0	7.3	7.2	7.1	140.0	222.00	180.00							
18	3518.0	24	24	0	24	23	23	23	23	135.0	1760.0	30.0	687.5	48.0	290.0		110.0	80.0	0.0	0.0	200.0	212.0	0.0	0.0	152.0	152.0	7.7	7.2	6.8	140.0	212.00	184.00							
19	4443.0	24	23	0	24	24	24	24	24	30.0	2000.0	42.0	412.5	61.0	290.0		120.0	90.0	0.0	0.0	216.0	226.0	0.0	0.0	170.0	184.0	7.9	7.3	7.3	148.0	226.00	218.00							
20	5181.0	23	24	0	23	24	24	23	24	100.0	1840.0	47.0	0.0	71.0	290.0		70.0	100.0	0.0	0.0	230.0	234.0	0.0	0.0	194.0	204.0	7.9	7.8	7.4	170.0	240.00	226.00							
21	5616.0	23	23	0	23	23	23	24	23	210.0	2080.0	47.0	550.0	77.0	290.0		70.0	100.0	0.0	0.0	230.0	250.0	0.0	0.0	200.0	230.0	7.6	6.6	7.4	200.0	262.00	234.00							
22	5127.0	24	24	0	24	24	24	23	23	70.0	2000.0	40.0	550.0	70.0	290.0		70.0	100.0	0.0	0.0	242.0	242.0	0.0	0.0	240.0	222.0	7.9	7.4	7.5	212.0	260.00	242.00							
23	4856.0	23	23	0	23	23	23	22	24	208.0	1920.0	47.0	275.0	67.0	290.0		70.0	100.0	0.0	0.0	240.0	238.0	0.0	0.0	220.0	226.0	7.9	7.4	7.5	230.0	260.00	244.00							
24	5630.0	23	22	0	22	23	23	22	22	286.0	2320.0	52.0	825.0	77.0	290.0		80.0	110.0	0.0	0.0	260.0	260.0	0.0	0.0	222.0	228.0	8.0	7.5	7.4	222.0	260.00	260.00							
25	6185.0	23	23	0	23	24	24	24	24	95.0	2960.0	104.0	0.0	85.0	290.0		150.0	110.0	0.0	0.0	280.0	278.0	0.0	0.0	244.0	252.0	8.2	7.6	7.6	230.0	280.00	280.00							
26	6494.0	23	22	0	22	23	22	22	23	330.0	3120.0	104.0	275.0	89.0	290.0		170.0	110.0	0.0	0.0	280.0	264.0	0.0	0.0	248.0	240.0	7.9	7.5	7.5	238.0	294.00	294.00							
27	6629.0	23	23	0	22	23	23	22	23	310.0	3600.0	84.0	550.0	91.0	290.0		110.0	80.0	0.0	0.0	260.0	254.0	0.0	0.0	244.0	240.0	8.2	7.3	7.3	244.0	270.00	262.00							
28	6672.0	23	23	0	21	22	22	22	22	282.0	3520.0	84.0	275.0	92.0	290.0		100.0	70.0	0.0	0.0	260.0	284.0	0.0	0.0	230.0	240.0	8.2	7.7	7.7	252.0	280.00	272.00							
29	6037.0	24	22	0	23	23	24	23	24	84.0	2560.0	49.0	275.0	83.0	290.0		100.0	70.0	0.0	0.0	264.0	284.0	0.0	0.0	240.0	238.0	8.1	7.8	7.6	260.0	280.00	260.00							
30	5342.0	24	24	0	24	24	23	23	23	90.0	2000.0	44.0	0.0	73.0	290.0		90.0	70.0	0.0	0.0	270.0	272.0	0.0	0.0	250.0	236.0	8.2	7.8	7.3	250.0	272.00	264.00							
31	5087.0	24	24	0	23	24	24	24	24	23.0	2080.0	43.0	0.0	70.0	290.0		90.0	70.0	0.0	0.0	260.0	266.0	0.0	0.0	232.0	244.0	7.3	7.7	7.6	240.0	280.00	274.00							
Tot	158660.0	733.0	729.0		726.0	725.0	724.0	717.0	725.0	3981.0	83280.0	1526.0	9625.0	2367.0	8990.0		3670.0	3120.0																					
Avg	5118.1	23.6	23.5		23.4	23.4	23.4	23.1	23.4	128.4	2686.5	49.2	310.5	76.4	290.0		118.4	100.6			223.6	228.5			199.1	200.8	7.7	7.2	7.2	204.6	238.3	230.9							
Power Costs	\$24,365.30																																						
Labor Costs	\$49,250.80																																						
Chemicals	\$42,976.26									Ave Rate of Wash (Vert. in/min)																													
Supplies	\$1,018.81									Ave Wash Period (Minutes)																													
Repairs	\$1,320.00																																						
Testing Cost	\$1,080.00									% Wash Water Used																													
TOTAL	\$120,011.17									2.51%																													
Cost per thousand gallons	\$0.76									Ave. Head Loss for Washing																													
I hereby certify the above to be correct to the best of my knowledge.																																							
Signed <u>Phillip Hightower</u>																																							
Print <u>Phillip Hightower</u>																																							
Title _____																																							
DEQ Form # 630-577 Revised 5/21/2018																																							
Oper. Cert. No. <u>90404</u>																																							



The City of Durant

Memorandum

Date: 1/10/2023
To: Mayor and City Council
From:
Re: Administration

Council Information / Action Requested

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

ATTACHMENTS: