

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.

THE DURANT CITY UTILITIES AUTHORITY / DCUA

6:00 PM

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

October 9, 2018

**DURANT CITY HALL
300 W. EVERGREEN, DURANT, OK
ROSCOE J. HATFIELD COUNCIL CHAMBERS**

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 September 11, 2018

2. Consider Items Removed from Consent

3. Administration

4. Information Items

- a. Landfill Information & Reports - September 2018
- b. Solid Waste Collection Monthly Report - September 2018
- c. Utility Department Monthly Report - September 2018
- d. Utility Line Maintenance Report- September 2018
- e. Waste Water Treatment Plant and Lab Monthly Report - September 2018
- f. Water Treatment Plant Monthly Operation Reports - September 2018

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 14th day of November, 2017 and that an agenda of said meeting was posted at the place of such meeting at 4:52 p.m. on the 5th day of October, 2018.

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 9/18/2018
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of September 11, 2018

Council Information / Action Requested

Approval of Regular Meeting Minutes of September 11, 2018

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

ATTACHMENTS:

Description	Type	Upload Date
Regular Minutes.9.11.2018	Exhibit	9/18/2018

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 14th day of November, 2017 and that an agenda of said meeting was posted at the place of such meeting at 5:00 p.m..on the 7th day of September, 2018.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF September 11, 2018 AT 6:00 PM, Roscoe J. Hatfield Council Chambers, 300 West Evergreen, Durant, Oklahoma

CALL TO ORDER

Chairman Tomlinson called the meeting to order at 7:39 p.m.

ROLL CALL

Present: Trustee Oden Grube	City Attorney Tom Marcum
Trustee Mike Dills	City Manager Tim Rundel
Trustee Destry Hawthorne	City Clerk Cynthia J. Price
Vice Chairman Chad Hitchcock	
Chairman Jerry Tomlinson	

Absent: None (*denotes partial attendance)

Chairman Tomlinson declared a quorum.

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 August 14, 2018

b. Consider Approval of Budget Amendments for FY 18-19

Approved

Motion was made by Chad Hitchcock and seconded by Destry Hawthorne to approve consent items as presented.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson

2. Consideration Items Removed from Consent

3. Administration

- a. Consider Award of Bids for Filter Underdrain Repair at the Water Treatment Plant:

- 1. Haynes Equipment Co. in the amount of \$60,000.00 for (WestTech) Laserflow Underdrain System

- 2. Environmental Improvements Inc (EI2) in the amount of \$20,138.00 for (Leopold) Filter Media

- 3. KBC Construction INC in the amount of \$46,488.00 for installation of the underdrain system and filter media.

Approved

Marty Cook, Public Works Director, addressed council and stated the sand drain filter blew out at the water treatment plant. It is one of 4 located inside the building that produces water for the City of Durant. They went out for bid for the different pieces and parts. The product is 21-30 weeks out so it must be ordered now to complete the work in the spring.

Motion was made by Destry Hawthorne and seconded by Chad Hitchcock to approve bid to Haynes Equipment Co. in the amount of \$60,000 for (WestTech) Laserflow Underdrain System; approve bid to Environmental Improvements Inc. in the amount of \$20,138 for (Leopold) Filter Media; approve bid to KBC Construction Inc. in the amount of \$46,488 for installation of the underdrain system and filter media.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson

4. Information Items

- a. Landfill Information & Reports - August 2018
- b. Solid Waste Department Monthly Report - August 2018
- c. Utilities Department Monthly Report - August 2018
- d. Utility Line Maintenance Report- August 2018
- e. Water Treatment Plant Monthly Reports - August 2018
- f. Waste Water Treatment Plant and Lab Monthly Reports - August 2018

Adjournment

Motion was made by Destry Hawthorne and seconded by Chad Hitchcock to adjourn meeting.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson



The City of Durant

Solid Waste Landfill

Memorandum

Date: 10/1/2018
To: Utilities Authority
From: Kenny Cooper Supervisor Solid Waste Landfill
Re: Landfill Information & Reports - September 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
SEPTEMBER2018MONTHLYREPORT	Cover Memo	10/1/2018
SEPTEMBER2018 MONTHLYPROJECT	Cover Memo	10/1/2018



MONTHLY REPORT FOR SOLID WASTE DISPOSAL FACILITIES

(Please see instructions prior to completing this form)

Due by the 10th of the month following the reporting month

Administrative Services
Accounts Receivable
P. O. Box 2036
Oklahoma City, OK 73101-2036

Report month/year: Sep-18

Facility Name: CITY OF DURANT C/D LANDFILL
Mailing Address: PO BOX 578
DURANT, OK 74702-0578

Permit Number: 3507001

Phone Number: 580-931-6606

Total # of Days open: 23

COMPLETE SECTIONS 5-10 ONLY IF SCALES GO DOWN

D A Y	(1) Total weight accepted (tons)	(2) Weight which is reused or recycled in accordance with facility permit (tons)	(3) Weight accepted from a DEQ approved emergency or special event (tons)	(4) Weight accepted from large industrial waste generators with DEQ exemption certificate (tons)	(5) Time scales placed out of service	(6) Time scales placed into service	(7) Total volume accepted (yd3)	(8) Volume which is reused or recycled in accordance with facility permit (yd3)	(9) Volume accepted from a DEQ approved emergency or special event (yd3)	(10) Volume accepted from large industrial waste generators with DEQ exemption certificate (yd3)
1										
2										
3										
4	21.21									
5	9.02									
6	62.03									
7	55.5									
8	3.11									
9										
10	43.94									
11	76.22									
12	52.9									
13	51.95									
14	82.41									
15	0.97									
16										
17	59.9									
18	57.28									
19	65									
20	75.71									
21	0.95									
22	0.38									
23										
24	18.5									
25	23.5									
26	31.82									
27	54.32									
28	98.82									
29	38.33									
30										
31										
Total	983.77	0	0	0	0	0	0	0	0	0

I hereby certify that the information reported above is accurate and correct to the best of my knowledge and includes all solid waste received at this facility.

Signature of authorized agent: Phone #: 580-924-8358 Date:

INSTRUCTIONS FOR COMPLETING THE MONTHLY REPORT FOR SOLID WASTE DISPOSAL FACILITIES

The monthly report for solid waste disposal facilities should be submitted to the DEQ no later than the 10th of the month following the reporting month and should include all solid waste received during the month. **If no solid waste is received in a given month, a monthly report is still required. Please include a notation that no solid waste was received during the month.**

1. In the spaces provided, enter the month and year covered by the report, the facility name, permit number, mailing address, and phone number.

2. For each operating day of the month, provide the following and identify which days during the month the facility was closed.

Column 1: **Total weight accepted:** Enter the total weight, **in tons**, of all waste accepted at the facility for each day. The total must include weights to be reported in columns 2, 3, and 4.

Column 2: (Only applicable to landfill disposal facilities) **Weight which is reused or recycled in accordance with facility permit:** Enter the weight, **in tons**, of waste accepted at the facility which was productively reused at the facility in accordance with the facility's permit OR was recovered and sold in accordance with the facility's permit.

Column 3: (Only applicable to landfill disposal facilities) **Weight accepted from a DEQ approved emergency or special event:** Enter the weight, **in tons**, of waste accepted at the facility from an emergency or special event for which the facility received prior approval from the DEQ to waive the state disposal fee.

Column 4: (Only applicable to landfill disposal facilities) **Weight accepted from large industrial waste generators with DEQ exemption certificate:** Enter the weight, **in tons**, of waste received from large industrial waste generators **which was accompanied by a large industrial waste generator fee exemption certificate issued by the DEQ.**

Column 5: (Only applicable to landfill disposal facilities) **Time scales placed out-of-service:** Enter the approximate time (hour:minute) the scales became inoperative.

Column 6: (Only applicable to landfill disposal facilities) **Time scales placed into service:** Enter the approximate time (hour:minute) the scales were placed into service.

*Note: Section 2-10-802 of the Oklahoma Solid Waste Management Act requires operators of certain landfill disposal facilities to weigh all solid waste received at the landfill. **Only when the scales are inoperative may a landfill record the volume of waste***

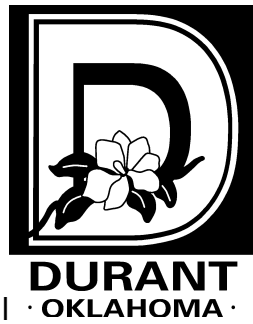
Column 7: **Total volume accepted:** Enter the total volume **in cubic yards** of all waste accepted at the facility. The total must include volumes to be reported in columns 8, 9, and 10.

Column 8: (Only applicable to landfill disposal facilities) **Volume which is reused or recycled in accordance with facility permit:** Enter the volume, **in cubic yards**, of waste accepted at the facility which was productively reused at the facility in accordance with the facility's permit OR was recovered and sold in accordance with the facility's permit.

Column 9: (Only applicable to landfill disposal facilities) **Volume accepted from a DEQ approved emergency or special event:** Enter the volume, **in cubic yards**, of waste accepted at the facility from an emergency or special event for which the facility received prior approval from the DEQ to waive the state disposal fee.

Column 10: (Only applicable to landfill disposal facilities) **Volume accepted from large industrial waste generators with DEQ exemption certificate:** Enter the volume, **in cubic yards**, of waste received from large industrial waste generators **which was accompanied by a large industrial waste generator fee exemption certificate issued by the DEQ.**

3. At the end of the month, calculate the total down time for the scales (hours:minutes) and include in the space provided. Sum each column and include in the appropriate column.



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE SEPTEMBER 2018

A. Work Completed for SEPTEMBER:

1. Covered C & D Site
2. Hauled MSW To SORD
3. picked up 264 rolloff's & 8 delivered

B. Work Planned For OCTOBER:

1. Continue Covering C&D site
2. Have new C&D cell 10C inspected and approved
3. Haul MSW To SORD
4. Continue Picking up, Delivering

C. Work Planned For Jan. '18 – Dec. '18:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2018 thru 12-2018

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of the Solid Waste Department

Memorandum

Date: 10/2/2018
To: Utilities Authority
From: Albert Pierce, Superintendent, Solid Waste Collection
Re: Solid Waste Collection Monthly Report - September 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Solid Waste Collection MR Sept 2018	Cover Memo	10/2/2018



THE CITY OF DURANT

Office of the Solid Waste Department

SOLID WASTE PROJECTS SCHEDULE SEPTEMBER 2018

A. Work Completed

1. Hauled 43.91 tons of extra hauling
2. Hauled 49 loads of extra hauling
3. Picked up and delivered 17 sharps containers
4. No abatements
5. Refurbished 3 dumpsters
6. Replaced 7 dumpsters

B. Work Planned for October

1. Refurbish dumpsters

C. Work Planned for January 1, 2018 to December 31, 2018

1. Pick up trash

D. Projects Planned And Requested For Authorization

1. None



The City of Durant

Office of City Clerk

Memorandum

Date: 10/5/2018
To: Utilities Authority
From: Stephanie Barfield, Utility Billing Supervisor
Re: Utility Department Monthly Report - September 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Utility Department Monthly Report - September 2018	Exhibit	10/5/2018



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

SEPT 2018

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	6826		6001		6784	
Total Revenue Billed	\$425,210.81	\$1,276,831.40	\$265,074.73	\$783,215.71	\$374,309.39	\$1,092,258.52
Adjustments in Dollar	(\$4,854.87)	(\$16,617.00)	(\$36,553.57)	(\$61,690.66)	(\$7,560.78)	(\$23,028.02)
TOTAL CASH RECEIPTS	\$333,991.23	\$835,258.17	\$177,607.64	\$532,727.14	\$227,257.52	\$737,402.13

CONSUMPTION IN GALLONS	122,016,200
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NEW SERVICE APPLICATIONS	99
NUMBER OF WALK IN/PHONE PAYMENTS	1,647
MAIL PAYMENTS	1,363
CREDIT CARD PAYMENTS	951
WEB PAYMENTS	917
DROP BOX PAYMENTS	458
BANK DRAFT PAYMENTS	767
CREDIT CARD DRAFT PAYMENTS	287
KIOSK	614
OTHERS	



The City of Durant

Office of the Water and Sewer Maintenance Department

Memorandum

Date: 10/4/2018
To: Utilities Authority
From: Jay Neal- Utility Line Maintenance Supervisor
Re: Utility Line Maintenance Report- September 2018

Utility Line Maintenance Report- September 2018

1. Line Repairs, Taps, Installs
 - a. Water Leaks: 62
 - b. Water Taps: 13
 - c. Sewer Leaks: 2
 - d. Sewer Taps: 1
2. Upcoming/Ongoing Projects
 - a. Completed our first cycle of usage on the SL-RAT device provided by OMAG. Now have an accurate GIS map that locates each manhole town as well as the fitness of each wastewater line.
 - b. Root removal project still ongoing. Designating problem areas weekly for a more focused effort.
 - c. Meeting with Wall Engineering in the middle of this month to lay out plan for the Leak Detection Project.

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
Line Maintenance Council Attachment	Cover Memo	10/4/2018

September 2018

Water Leaks:	62
Water Taps:	13
Sewer Leaks:	2
Sewer Taps:	1
Other Completed Jobs:	123
Carryover Balance to Next Month	8

Jobs/Day	25.13
Jobs/Week	100.5
Jobs/Month	201

Added Leaks	14
Paid Taps	9



The City of Durant

Office of the Wastewater Treatment Plant

Memorandum

Date: 10/5/2018
To: Utilities Authority
From: Terry Condor, Superintendent, Waste Water Treatment Plant
Re: Waste Water Treatment Plant and Lab Monthly Report - September 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
WWTP SEPT 2018 REPORT	Cover Memo	10/5/2018



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

9/1/18 to 9/30/18

Tests Processed

<u>72</u>	Bac-t's
<u>84</u>	BOD's
<u>20</u>	TSS's
<u>4</u>	NH3's
<u>12</u>	DO's
<u>15</u>	Ph's
<u>8</u>	Fecal Coliforms (May 1 st – Sept. 30 th) * 6 per set
<u>1</u>	FOG's

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

A: WORK COMPLETED IN SEPTEMBER 2018

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS 9-21-18
- 3: CLEAN BLEND TANK MIXER 9/28/18
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION -----
- 6: CLEAN SCUM PUMP STATION
- 7: CLEAN DRAIN LIFT STATION 9/13/18
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 9/6/18
- 9: CALIBRATE DISCHARGE DO & PH METER 9/26/18
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 9/18/18
- 11: RESET SBR PLC
- 12: WASH DOWN STEP SCREEN 9/11/18
- 13: CLEAN UV TROUGHS AND FLUME
- 14: CHECK ELECTRIC MANHOLES 9/20/18
- 15: CLEAN OUT BUILDINGS 9/5/18
- 16: MANUALLY CHECK U.V. BULBS 9/5/18
- 17: WASH DOWN CASINO STEPSCREEN
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION 9/13/18
- 20: WALK-THRU INSPECTION 9/5/18
- 21: CLEAN ALL PLC's 9/7/18
- 22: CLEAN D.O. METERS (not needed)
- 23: CHECK CLARIFIER OIL WEEKLY 9/6, 9/20/18

TREATED 64.021 MG OF WASTEWATER
PROCESSED .797610 MG OF TREATED SLUDGE

B: WORK PLANNED FOR OCTOBER 2018

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS
- 3: CLEAN BLEND TANK MIXER
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION -----
- 6: CLEAN SCUM PUMP STATION
- 7: CLEAN DRAIN LIFT STATION
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER
- 9: CALIBRATE DISCHARGE DO & PH METER
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- 15: CLEAN OUT BUILDINGS
- 16: MANUALLY CHECK U.V. BULBS
- 17: WASH DOWN CASINO STEPSCREEN
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION
- 20: WALK-THRU INSPECTION
- 21: CLEAN ALL PLC's

Process Water and Sludge Flow Report

September 2018

Date	Influent Flow (MG)	Drain Lift Station Flow (MG)	Casino Lift Station Flow (MG)	Combined Infl (MG)	Effluent Flow (MG)	GBT #1 Flow (KG)	GBT #2 Flow (KG)	Sludge Flow Digester #1 (KG)	Sludge Flow Digester #2 (KG)
9/1/2018	1.040	0.029	0.342	1.410	1.674	0.000	0.000	0.000	11.467
9/2/2018	1.059	0.028	0.341	1.429	1.661	0.000	0.000	0.000	10.303
9/3/2018	1.387	0.026	0.342	1.755	1.950	0.003	0.000	0.000	9.294
9/4/2018	1.889	0.072	0.268	2.229	2.105	48.037	0.000	0.000	11.558
9/5/2018	1.650	0.065	0.249	1.964	2.022	48.126	0.000	0.000	11.212
9/6/2018	1.342	0.048	0.270	1.660	1.739	24.696	0.000	0.000	10.031
9/7/2018	1.669	0.078	0.370	2.117	2.233	44.605	0.000	0.000	11.111
9/8/2018	1.176	0.023	0.359	1.558	1.794	0.040	0.000	0.000	10.711
9/9/2018	1.142	0.027	0.271	1.440	1.776	0.094	0.000	0.000	8.580
9/10/2018	1.248	0.074	0.225	1.547	1.800	48.458	0.000	0.000	10.311
9/11/2018	1.472	0.075	0.226	1.772	2.071	48.090	0.000	0.000	11.042
9/12/2018	1.282	0.051	0.224	1.556	1.951	25.066	0.000	0.000	11.073
9/13/2018	1.470	0.072	0.248	1.790	2.071	45.368	0.000	0.000	11.340
9/14/2018	1.238	0.068	0.271	1.578	1.905	41.466	0.000	0.000	10.356
9/15/2018	1.777	0.033	0.385	2.196	2.505	0.009	0.000	0.000	11.079
9/16/2018	1.427	0.021	0.293	1.741	2.087	0.002	0.000	0.000	2.214
9/17/2018	1.663	0.057	0.227	1.948	2.173	45.277	0.000	0.000	0.356
9/18/2018	1.415	0.064	0.269	1.748	1.966	41.081	0.000	0.000	0.305
9/19/2018	1.410	0.052	0.248	1.710	1.845	32.888	0.000	0.000	13.529
9/20/2018	1.622	0.063	0.251	1.935	2.094	35.629	0.000	0.000	20.866
9/21/2018	2.745	0.106	0.531	3.381	2.562	46.623	0.000	0.000	24.448
9/22/2018	3.139	0.054	0.575	3.768	2.477	0.455	0.000	0.000	27.587
9/23/2018	2.037	0.035	0.356	2.428	1.543	0.348	0.000	0.000	25.810
9/24/2018	2.932	0.075	0.268	3.274	1.807	47.961	0.000	0.000	21.580
9/25/2018	2.724	0.074	0.266	3.064	1.747	48.031	0.000	0.000	21.876
9/26/2018	2.646	0.072	0.247	2.966	1.644	44.360	0.000	0.000	25.172
9/27/2018	2.473	0.063	0.268	2.803	1.504	41.044	0.000	0.000	25.073
9/28/2018	2.139	0.063	0.293	2.495	1.397	39.319	0.000	0.000	24.909
9/29/2018	2.042	0.027	0.363	2.432	1.314	0.365	0.000	0.000	24.530
9/30/2018	2.030	0.029	0.269	2.327	1.328	0.167	0.000	0.000	24.902

Wednesday, October 03, 2018

Sum	53.287	1.622	9.113	64.021	56.746	797.610	0.000	0.000	442.627
Avg	1.776	0.054	0.304	2.134	1.892	26.587	0.000	0.000	14.754
Min	1.040	0.021	0.224	1.410	1.314	0.000	0.000	0.000	0.305
Max	3.139	0.106	0.575	3.768	2.562	48.458	0.000	0.000	27.587

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

MONTH OF 5

DAY	DATE	WEATHER		FLOW		PUMPS		INFLUENT DATA				SLUDGE		SBR DATA				DMR						
		RAINFALL (in.)	Lo AIR TEMP	INFLUENT (MGD)	EFFLUENT (MGD)	RAW PUMP ONLINE	EFFLUENT PUMP ONLINE	pH	SETTLEABLE SOLIDS ml / L	Head work's BOD ₅	Over the Weirs BOD ₅	TSS	FEED SLUDGE (GPD)	GBT ONLINE	REACTOR #1 SETTLEABILITY	REACTOR #2 SETTLEABILITY	REACTOR #3 SETTLEABILITY	REACTOR #4 SETTLEABILITY	D.O. mg/L	pH	TSS mg/L	AMMONIA mg/L	CBOD ₅	FECAL COLIFORM #cfu/100ml
S	9/1/18			1.4	1.7	1	4					22,934							7.7	7.8				
S	9/2/18			1.4	1.7	1	4					20,606							7.8	7.8				
M	9/3/18	.78		1.8	2.0	1	4					18,588							7.8	7.9				
T	9/4/18			2.2	2.1	1	4	7.2	10			23,146	48,037	500	600	600	400	7.9	7.8					
W	9/5/18			2.0	2.0	1	4	7.2	15	119	120	32	22,424	48,126	400	625	600	400	7.9	7.7	2.5	0.2	2.0	
T	9/6/18			2.5	1.7	1	4	7.6	8				20,606	24,696	400	650	700	480	7.8	7.7				
F	9/7/18	.83	73	2.1	2.2	1	4						22,222	44,605					7.9	7.8				
S	9/8/18			1.6	1.8	1	4						21,422						7.7	7.6				
S	9/9/18			1.4	1.8	1	4						17,160						7.7	7.6				
M	9/10/18			1.5	1.6	1	4	7.3	7				26,622	48,453	450	750	700	600	7.8	7.6				5
T	9/11/18			1.4	2.1	1	4	7.3	10				22,084	48,090	500	600	650	700	7.7	7.8				11
W	9/12/18			1.6	2.0	1	4	7.3	15	163	85	56	22,146	25,065	850	600	600	550	7.7	7.8	2.5	0.3	2.0	
T	9/13/18			1.8	2.1	1	4	7.4	8				22,680	45,368					7.8	7.9				
F	9/14/18	2.0	71	1.6	1.9	1	4	7.4	10				20,712	41,466					7.7	7.8				
S	9/15/18			2.2	2.5	1	4						22,158						7.6	7.8				
S	9/16/18			1.7	2.1	1	4						44,228						7.7	7.8				
M	9/17/18			1.9	2.2	1	4	7.1	8				19,451	45,277	600	650	500	600	7.7	7.6				
T	9/18/18			1.7	2.0	1	4	7.6	3				22,110	41,031	650	700	500	450	7.6	7.6				
W	9/19/18			1.7	1.8	1	4	7.4	3	87	86	128	20,560	32,886	750	800	650	700	7.7	7.8	2.5	0.2	2.0	9
T	9/20/18			1.9	2.1	1	4	7.2	5				16,913	33,629					7.8	7.8				3
F	9/21/18	3.67	75	3.4	2.6	1	4	7.3	10				24,448	46,623					7.7	7.7				
S	9/22/18	3.67		3.8	2.5	1	4						27,587						7.4	7.8				
S	9/23/18			2.4	1.5	1	4						25,810						7.4	7.6				
M	9/24/18			2.9	1.8	1	4	7.3	3				25,810	47,961	800	700	700	450	7.6	7.6				9
T	9/25/18			3.0	1.7	1	4	7.3	5				21,876	48,031	650	550	725	450	7.5	7.5				28
W	9/26/18			2.9	1.6	1	4	7.0	20	85	87	36	25,172	44,360	700	750	750	600	7.6	7.9	2.5	0.2	2.0	
T	9/27/18			2.8	1.5	1	4	7.3	10				25,073	41,044					7.5	7.7				
F	9/28/18			2.5	2.3	1	4	7.3	5				24,909	39,319					7.7	7.9				
S	9/29/18			2.4	2.4	1	4						24,530						7.8	7.8				
S	9/30/18			2.3	2.3	1	4						24,902						7.4	7.1				



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 10/1/2018
To: Utilities Authority
From: Phillip Hightower, Water Treatment Plant
Re: Water Treatment Plant Monthly Operation Reports - September 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Water Plant CLO2 Report	Cover Memo	10/1/2018
Water Plant MOR #1	Cover Memo	10/1/2018
Water Plant MOR #2	Cover Memo	10/1/2018
Water Plant Monthly Maintenance Report	Cover Memo	10/1/2018



CHLORINE DIOXIDE AND CHLORITE MONITORING AND REPORTING FORM

1. Public Water System (PWS) Information:

PWSID: OK 1010601

PWS Name: City of Durant

2. Compliance Information:

Water System Facility ID: 1010601

Plant Name: Durant Water Plant

Month: Sept Year: 2018

3. Analytical Results & Summary Information:

Entry Point Monitoring			Chlorine Dioxide Daily Monitoring (Summary Type: CLO2)					
Day	ClO ₂ (mg/L)	Chlorite (mg/L)						
1	0.1	0.85	Number of Samples Required: 30					
2	0.1	0.8	Number of Samples Collected: 30					
3	0.1	0.76	Was All Chlorine Dioxide Monitoring & Reporting Completed? Yes / No Yes / No					
4	0.1	0.8	Number of ClO ₂ samples exceeded the MRDL of 0.8 mg/L? 0					
5	0.06	0.71	If a routine sample exceeds the MRDL, the system is required to take (3) three more samples the next day.					
6	0.05	0.71	Chlorite Daily Monitoring (Summary Type: CLO2)					
7	0.22	0.71	Number of Samples Required: 30					
8	0.14	0.66	Number of Samples Collected: 30					
9	0.07	0.76	Was All Chlorite Monitoring & Reporting Completed? Yes / No Yes / No					
10	0.14	0.9	Number of Chlorite samples exceeded the MCL of 1.0 mg/L? 					
11	0.1	0.57	If a routine sample exceeds the MCL, the system is required to take (3) three more samples the next day.					
12	0.13	0.71	* If you didn't use Chlorine Dioxide for disinfection any day this month, please mark "n/a" in that day's box to prevent a Monitoring violation.					
13	0.12	0.66						
14	0.1	0.71						
15	0.1	0.71	Routine Chlorite Monthly Monitoring in Distribution System					
16	0.17	0.61	Sampling Location	Lab Sample ID	Sampling Point ID	Collection Date	Certified Lab ID	Chlorite (mg/L)
17	0.1	0.66	Near 1st Customer					
18	0.09	0.76	Avg. Residence Time					
19	0.08	0.66	Max. Residence Time					
20	0.11	0.76	Monitoring Period Average: 					
21	0.15	0.71	Mark (X) if analytical results were reported electronically: _____					
22	0.11	0.76	- If the arithmetic average of any three sample set exceeds the Chlorite MCL (1.0 mg/L), the system is in violation of the MCL.					
23	0.09	0.71	- If more than one three-sample set was collected, attach additional copies of this form.					
24	0.1	0.66						
25	0.12	0.66						
26	0.07	0.61						
27	0.1	0.47						
28	0.14	0.51						
29	0.11	0.57						
30	0.14	0.66						
31								

Signature of owner or operator: _____

Date: _____

Operator License Number _____

Send all documents to:

Joe Keeble
Disinfection Byproducts Compliance Coordinator
Water Quality Division, DEQ
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

DEQ Form # 630-577D

Revision 06/01/2009

Mail original before the 10th of the following month
to the Department of Environmental Quality, Water Quality Division
P. O. Box 1677, Oklahoma City, OK 73101-1677

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS

Plant: Durant Water Treatment F
PWSID: 1010601
Month: September 2018
Population: 19,491

Durant City Utilities Authority

PO Box 578

Durant OK

74702

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.								ALKALINITY								pH			CaCO3	HARDNESS			Chlorite residual	Chlorite lbs/day	REMARKS	
		FILTERS USED-HOURS									ALUM	LIME	POLYMER Name:		CARBON	OTHER Name: NH2SIF6	OTHER Name: copper sulf	CHLORINE		"P"		TOTAL AM		CLO2 Residual		TOTAL PM		STABILITY			(ppm) AM	Chlorite residual					
		1	2	3	4	5	6	7	8									PRE	POST	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW			FILT				RAW
1	5,739	24	0	24	24	24	24	23	23	72	2300	0	0	0	0	0	0	130	130			214	204		0.1	220	198	8.2	7.4	7.5	202	248	252	0.85	440		
2	6,219	23	0	23	23	24	24	24	24	130	2000	0	0	0	0	0	0	120	120			230	200		0.1	222	200	8	7.3	7.4	204	234	230	0.8	440		
3	6,022	23	0	23	23	23	23	24	24	160	2000	0	0	0	0	0	0	130	130			240	210		0.1	224	200	8.2	7.4	7.5	214	230	224	0.76	400		
4	5,322	23	0	23	23	24	24	23	23	145	1400	0	0	0	0	0	0	100	100			234	214		0.1	234	216	8.1	7.3	7.3	222	226	222	0.8	350		
5	5,178	24	0	24	24	23	23	24	24	70	1700	0	0	0	0	0	0	100	120			228	200		0.06	232	212	8	7.3	7.3	206	230	230	0.71	330		
6	5,151	24	0	24	24	24	24	23	23	70	3600	0	0	0	0	0	0	120	120			210	198		0.05	224	122	8.1	7.3	7.5	208	250	242	0.71	330		
7	5,150	23	0	23	23	24	24	24	24	105	4600	0	0	0	0	0	0	120	140			238	182		0.22	232	162	8.1	7.1	7.1	208	244	214	0.71	330		
8	4,628	24	0	24	24	23	23	24	24	70	5300	0	0	0	0	0	0	130	120			190	180		0.14	194	160	7.9	6.9	7	190	220	260	0.66	280		
9	3,786	24	0	24	24	24	24	23	23	70	2700	0	0	0	0	0	0	90	70			238	158		0.07	246	156	8	6.7	6.9	194	240	200	0.76	260		
10	3,707	23	0	23	23	24	24	24	24	105	2200	0	0	0	0	0	0	90	70			246	194		0.14	210	190	8.1	7	7.3	188	236	226	0.9	260		
11	4,203	24	0	24	24	23	23	24	24	70	1700	0	0	0	0	0	0	90	90			204	192		0.1	218	182	8	7.1	7.1	210	202	222	0.57	260		
12	4,484	24	0	24	24	24	24	23	23	70	1700	0	0	0	0	0	0	90	90			200	180		0.13	196	186	8	7.2	6.9	190	206	198	0.71	280		
13	4,569	24	0	24	24	24	24	24	24		1700	0	0	0	0	0	0	90	90			180	190		0.12	166	168	7.9	7.2	7.2	200	214	218	0.66	280		
14	5,221	23	0	23	23	24	24	24	24	105	1900	0	0	0	0	0	0	120	100			168	170		0.1	160	146	7.7	7	7.2	190	194	200	0.71	320		
15	4,758	24	0	24	24	23	23	24	24	83	4700	0	0	0	0	0	0	180	100			162	146		0.1	106	134	7.8	7	7.2	164	198	194	0.71	320		
16	4,416	24	0	24	24	24	24	23	23	85	4500	0	0	1375	0	0	0	150	100			132	80		0.17	100	88	7.6	6.6	7.1	166	146	138	0.61	320		
17	4,403	23	0	23	23	24	24	24	24	105	2600	0	0	1788	0	0	0	120	110			152	152		0.1	184	104	7.7	7.5	7.6	124	134	132	0.66	300		
18	4,720	24	0	24	24	23	23	24	24	65	2000	0	0	963	0	0	0	140	120			202	160		0.09	214	178	7.8	7.9	7.3	104	228	172	0.76	320		
19	4,784	24	0	24	24	24	24	24	24		1600	0	0	963	0	0	0	120	100			222	214		0.08	222	200	7.9	7.5	7.6	160	208	202	0.66	320		
20	4,839	24	0	24	24	24	24	23	23	70	2000	0	0	413	0	0	0	140	120			208	200		0.11	218	196	8.1	7.8	7.5	186	238	220	0.76	320		
21	4,318	23	0	23	23	24	24	24	24	105	2700	0	0	138	0	0	0	260	100			224	194		0.15	216	194	8.1	7.3	7.3	204	254	240	0.71	320		
22	3,380	23	0	23	23	24	24	24	24	105	2000	0	0	825	0	0	0	200	90			124	130		0.11	116	130	7.3	7.2	7.3	192	168	180	0.76	260		
23	3,579	24	0	24	24	23	23	24	24	90	2300	0	0	962	0	0	0	210	80			90	116		0.09	90	106	7.3	7.6	7.6	142	100	140	0.71	260		
24	3,562	24	0	24	24	24	24	23	23	75	2100	0	0	825	0	0	0	210	80			92	98		0.1	94	82	7.2	7.5	7.6	122	110	112	0.66	260		
25	4,069	24	0	24	24	24	24	24	24		2500	0	0	1238	0	0	0	210	100			100	84		0.12	108	82	7.2	7.2	7.3	100	114	122	0.66	260		
26	4,566	23	0	23	23	24	24	24	24	105	2800	0	0	1100	0	0	0	220	120			96	82		0.07	102	88	7.2	7.3	7.4	90	128	122	0.61	340		
27	4,569	24	0	24	24	24	24	24	24		2700	0	0	1513	0	0	0	220	80			94	80		0.1	102	94	7.2	7.3	7.4	90	126	130	0.47	340		
28	4,484	24	0	24	24	23	23	24	24	73	2700	0	0	1100	0	0	0	205	95			108	94		0.14	102	82	7.2	7.4	7.4	88	134	118	0.51	340		
29	4,551	24	0	24	24	24	24	23	23	80	2800	0	0	1375	0	0	0	240	90			100	92		0.11	98	96	7.2	7.3	7.5	98	132	112	0.57	340		
30	4,549	23	0	23	23	24	24	24	24	105	2400	0	0	1375	0	0	0	280	90			108	86		0.14	100	84	7.3	7.3	7.4	90	96	108	0.66	340		
31																																					
TOT	138926	712	0	712	709	712	712	711	711	2388	77200			15953				4625	3065			5234	4680		3.31	5150	4436	232	218	220	4946	5688	5580	20.79	9520		
Avg	4631	24	0	24	24	24	24	24	24	80	2573			532				154	102			174	156		0	172	148	7.7	7.3	7.3	164.9	190	186	0.693	317.333		

Power Costs	\$23,311.87
Labor Costs	\$30,110.25
Chemicals	\$20,646.76
Supplies	\$1,284.07
Repairs	\$4,266.62
TOTAL	\$79,619.57

Ave. Rate of Wash (Vert. in/min.)

Ave Wash Period (Minutes)

% Wash Water Used

Ave. Head Loss for Washing

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

Signed

PhillipHightower

Title

Water Treatment Plant Supervisor

DEQ Form # 630-577A

Revised 9/1/2000

Oper. Cert. No.

B 90404

Cost per thousand Gallons

\$ 0.57

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS**

System

Address

City

ZIP

Population:	<u>19,491</u>
--------------------	---------------

No. OF SAMPLES	% OF TOTAL SAMPLES
-------------------	-----------------------

TURBIDITY GREATER THAN 0.5 NTU:	0	0%	◀
TURBIDITY GREATER THAN 0.3 NTU:	0	0%	◀
TURBIDITY GREATER THAN 0.1 NTU:	12	7%	

TOTAL NO. OF TURBIDITY ANALYSES:	180	
HIGHEST TURBIDITY READING	0.14	◀
NUMBER OF SAMPLES > 1 NTU	0	◀
NUMBER OF SAMPLES > 5 NTU	0	◀
95TH PERCENTILE OF FINISHED WATER TURBIDITY	0.11	◀ NOT REQUIRED
95TH PERCENTILE OF SETTLED WATER TURBIDITY	3.51	◀ NOT REQUIRED
CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)		

INDIVIDUAL FILTER TURBIDITY CHECKLIST

☒ Yes ☐ No

☐ Yes, Schedule Comprehensive Performance Evaluation (CPE) with DEQ.

COMPLETE THE TURBIDITY TRIGGER EVALUATION FORM AND ATTACH TO THIS MOR.

	TURBIDITY									RESIDUAL DISINFECTANT								COMMENTS	
DAY	RAW	SET	SET	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION			
										12am	4am	8am	12pm	4pm	8pm	SYSTEM			
1	9.85	2	3.6	0.06	0.07	0.05	0.05	0.05	0.07	2.98	3.26	3.12	2.84	2.65	3.02	1.68	1.86		
2	8.36	1.8	3	0.12	0.04	0.04	0.07	0.05	0.04	3.12	2.09	2.72	2.62	2.63	2.70	2.60	1.78		
3	6.85	2	3	0.12	0.06	0.05	0.05	0.05	0.04	2.83	3.17	3.02	2.92	2.75	2.96	1.66	1.60		
4	8.80	1.4	2.4	0.08	0.09	0.06	0.05	0.05	0.05	3.02	3.12	3.13	2.83	2.69	2.59	2.54	1.72		
5	5.89	1.4	2.3	0.07	0.06	0.06	0.05	0.05	0.04	2.71	2.89	2.88	2.81	2.62	2.60	1.77	2.45		
6	8.40	2.1	3.1	0.06	0.05	0.05	0.05	0.08	0.07	2.71	2.87	2.86	2.76	2.68	2.57	2.29	1.72		
7	51.28	2.8	3.7	0.07	0.07	0.04	0.03	0.03	0.03	2.65	2.74	3.18	2.83	2.75	2.80	2.34	1.66		
8	39.12	1.7	3.3	0.04	0.03	0.03	0.03	0.03	0.03	3.13	3.28	3.39	3.11	2.97	2.43	2.55	1.60		
9	68.10	1.3	1.5	0.04	0.03	0.03	0.03	0.03	0.03	2.37	2.46	2.57	2.67	2.82	2.57	1.81	2.15		
10	25.80	1.1	1.8	0.06	0.03	0.03	0.03	0.03	0.03	2.57	2.91	2.94	2.93	2.86	2.61	2.31	1.76		
11	21.59	1.4	2.6	0.05	0.04	0.04	0.03	0.04	0.04	2.62	2.93	2.95	2.80	2.68	2.48	1.76	1.81		
12	15.78	1.9	2.5	0.06	0.06	0.05	0.04	0.04	0.04	2.56	2.70	2.86	2.77	2.68	2.46	2.20	2.40		
13	13.33	2.3	3.1	0.04	0.05	0.05	0.05	0.04	0.04	2.62	2.69	2.75	2.61	2.58	2.37	1.69	2.38		
14	15.41	2.7	3.3	0.05	0.07	0.05	0.04	0.05	0.06	2.50	2.60	2.84	2.49	2.36	2.34	2.09	1.59		
15	15.05	2.9	3.4	0.06	0.13	0.14	0.06	0.05	0.07	2.46	2.52	2.50	2.54	2.44	2.35	1.56	1.49		
16	193.90	3.1	2.7	0.07	0.13	0.06	0.04	0.04	0.04	2.46	2.43	2.54	2.57	2.37	2.11	1.93	1.39		
17	62.65	3.5	3.8	0.05	0.05	0.04	0.04	0.04	0.04	2.12	2.17	2.42	2.59	2.40	2.17	1.85	1.71		
18	22.59	1.6	3	0.04	0.04	0.11	0.04	0.04	0.05	2.30	2.47	2.56	2.69	2.43	2.48	1.64	1.16		
19	17.95	1.9	3	0.08	0.05	0.05	0.04	0.04	0.05	2.65	2.67	2.68	2.49	2.50	2.42	1.11	1.13		
20	12.90	2	3.5	0.05	0.11	0.06	0.05	0.05	0.05	2.56	2.63	2.81	2.61	2.50	2.50	1.14	2.24		
21	9.51	1.6	2.6	0.05	0.09	0.05	0.05	0.06	0.10	2.63	2.69	2.88	2.90	2.90	2.90	1.12	1.09		
22	6.34	1.2	2.8	0.11	0.11	0.10	0.08	0.05	0.05	2.92	2.71	3.42	3.33	3.11	2.46	1.07	1.11		
23	21.43	1.8	2.1	0.09	0.05	0.11	0.09	0.07	0.07	2.40	2.42	2.41	2.57	2.62	2.53	2.25	1.94		
24	13.69	1.4	1.5	0.08	0.08	0.06	0.06	0.05	0.05	2.47	2.60	2.67	2.86	2.81	2.52	1.14	1.14		
25	9.51	1.1	2	0.05	0.05	0.04	0.06	0.09	0.09	2.50	3.03	3.20	2.32	2.32	2.14	2.05	1.12		
26	7.32	1.1	1.8	0.07	0.06	0.06	0.06	0.06	0.06	2.36	2.94	2.98	2.82	2.75	2.54	1.06	2.40		
27	9.23	0.9	1.3	0.06	0.06	0.06	0.05	0.04	0.05	2.56	2.64	2.67	2.22	2.18	2.11	2.18	2.08		
28	7.05	2.1	1.6	0.05	0.10	0.08	0.07	0.07	0.06	2.36	2.47	2.69	2.73	2.61	2.45	1.14	1.00		
29	6.20	0.7	1.1	0.06	0.12	0.09	0.08	0.07	0.07	2.50	2.58	2.79	2.65	2.53	2.21	2.13	1.16		
30	6.92	0.9	1.5	0.09	0.06	0.06	0.06	0.06	0.06	2.24	2.61	2.56	2.65	2.44	1.89	1.21	2.11		
31																			



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule September 2018 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. Fixed broken cl2 line on chlorinator
16. Drained basin and hosed it out to clean it
17. Built new frame for basin inlet box
18. Check and maintain fluid levels on trucks and mower
19. Mowed Plant grounds
20. Weed eated Plant grounds
21. Mowed and weed eated at towers in town
22. Rebuilt #2 pump at South ninth pump station
23. Finished power washing, scraping and painting raw water line
24. Fixed water leak on polymer line
25. Lost office computer due to lightening
26. Lost PLC in transfer building due to leaking roof
27. Reprogrammed and installed PLC in transfer building
28. Replaced DP unit in New Plant raw vault
29. Did monthly safety inspection
30. Treated 138,926,000 gallons of water

B. Work Planned for January-December

1. Paint buildings
2. Put Gravel at Chuckwa Tower
3. Put Gravel at Raw Pump Station
4. Fix #2 filter underdrain

Approx Start/Finish Date

Time permitting
Time Permitting
Time Permitting
Time permitting

C. Projects Planned and Requested for Authorization

- A. Upgrade raw pump building at the water plant
- B. Upgrade Scada system on Old and New Plant Filters
- C. Install new Fluoride System