

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**

April 10, 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 March 13, 2018

2. Consider Items Removed from Consent

3. Administration

4. Information Items

- a. Landfill Information & Reports - March 2018
- b. Solid Waste Department Monthly Report - March 2018
- c. Waste Water Treatment Plant and Lab Monthly Reports - March 2018
- d. Water Treatment Plant Operational Reports - March 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 5:15 p.m. on the 6th day of April, 2018.

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 3/23/2018
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of March 13, 2018

Council Information / Action Requested

Approval of Regular Meeting Minutes of March 13, 2018.

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

ATTACHMENTS:

Description	Type	Upload Date
Minutes 3.13.2018	Exhibit	3/23/2018

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 4:50 p.m. on the 9th day of March, 2018.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF March 13, 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 February 13, 2018

Approved

Motion was made by Chad Hitchcock and seconded by Mike Dills to approve consent item as presented. Motion Passed with the following vote:

Ayes: Dills, Grube, Hitchcock, Tomlinson

Abstain: Hawthorne

2. Consideration Items Removed from Consent

3. Administration

4. Information Items

- a. Landfill Information & Reports - February 2018
- b. Solid Waste Department Monthly Report - February 2018
- c. Utility Summary Monthly Report - January 2018 and February 2018
- d. Waste Water Treatment Plant and Lab Monthly Report - February 2018
- e. Water Treatment Plant Monthly Operation Reports - February 2018

Adjournment

Motion was made by Chad Hitchcock and seconded by Oden Grube to adjourn meeting.
Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson



The City of Durant

Solid Waste Landfill

Memorandum

Date: 3/27/2018
To: Utilities Authority
From: Zefe Laborico, Supervisor, Solid Waste
Landfill
Re: Landfill Information & Reports - March 2018

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
March 2018 DEQ Report	Cover Memo	4/2/2018
March 2018 Project schedule	Cover Memo	4/2/2018



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: MARCH 2018

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

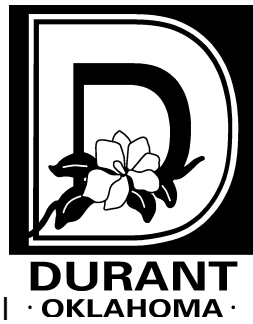
Total # of Days open: 25

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	11.2									
2	73.12									
3	27.65									
4	0									
5	92.84									
6	73.33									
7	72.18									
8	76.64									
9	82.46									
10	31.42									
11	0									
12	78.04									
13	69.5									
14	121.7									
15	92.45									
16	64.74									
17	25.51									
18	0									
19	97.74									
20	115.96									
21	92.19									
22	143.2									
23	120.85									
24	30.81									
25	0									
26	78.94									
27	22.95									
28	9.9									
29	17.03									
30	0									
31	0									
Total	1722.35	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: _____



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***March 2018***

A. Work Completed for March:

1. Covered C & D Site
2. Hauled MSW To SORD
3. picked up 358 rolloff's & 14 delivered

B. Work Planned For April:

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: 4/10/2018
To: Utilities Authority
From: Albert Pierce, Solid Waste Department
Superintendent
Re: Solid Waste Department Monthly Report - March
2018

Council Information / Action Requested

Information Only.

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

ATTACHMENTS:

Description	Type	Upload Date
March 2018 Monthly Report	Exhibit	4/2/2018



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS SCHEDULE ***March 2018***

A. Work Completed:

1. Hauled 151.97 tons of extra hauling
2. Hauled 102 loads of extra hauling
3. Picked up and delivered 19 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 1 time
6. Refurbished 9 dumpsters
7. Replaced 3 dumpsters with new
8. Cleaned dead ends of Cemetery rd. 2 times

B. Work Planned For April

1. Refurbish. dumpsters
- 2.

C. Work Planned For Jan. '1-18 – Dec. 31-18

1. Pick up trash

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of the Wastewater Treatment Plant

Memorandum

Date: 4/2/2018
To: Utilities Authority
From: Terry Condor, Waste Water Treatment Plant Superintendent
Re: Waste Water Treatment Plant and Lab Monthly Reports - March 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Project Schedule - March 2018	Exhibit	4/2/2018
MOR, Process Water & Sludge Flow Report, Lab Report - March 2018 Reports	Exhibit	4/2/2018



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

A: WORK COMPLETED IN MARCH 2018

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS 3/20/18
- 3: CLEAN BLEND TANK MIXER 3/21/18
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION -----
- 6: CLEAN SCUM PUMP STATION ----
- 7: CLEAN DRAIN LIFT STATION 3/1/18
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 3/2/18
- 9: CALIBRATE DISCHARGE DO & PH METER 3/22/18
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 3/1/18
- 11: RESET SBR PLC ----
- 12: WASH DOWN STEP SCREEN 3/20/18
- 13: CLEAN UV TROUGHS AND FLUME 3/1/18
- 14: CHECK ELECTRIC MANHOLES 3/5/18
- 15: CLEAN OUT BUILDINGS 3/6/18
- 16: MANUALLY CHECK U.V. BULBS 3/15/18
- 17: WASH DOWN CASINO STEPSCREEN 3/5/18
- 18: CHECK ALL AUTOMATIC VALVES ----
- 19: VEHICLE INSPECTION 3/7/18
- 20: WALK-THRU INSPECTION 3/2/18
- 21: CLEAN ALL PLC's 3/2/18
- 22: CLEAN D.O. METERS 3/20/18
- 23: CHECK CLARIFIER OIL WEEKLY 3/5/18
- 24: REPAIR DIGESTER FLOW METER (IMPENDING)
- 25: WAS FEED PUMP REPAIR 3/22/18
- 26: REPAIRED EFFLUENT VALVE#2 3/30/18
- 27: REPAIRED DIESEL GENERATOR 3/29/18

TREATED 83.145 MG OF WASTEWATER
PROCESSED 1.167836 MG OF TREATED SLUDGE

B: WORK PLANNED FOR APRIL 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
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER
- 11: RESET SBR PLC
- 12: WASH DOWN STEP SCREEN
- 13: CLEAN UV TROUGHS AND FLUME
- 14: CHECK ELECTRIC MANHOLES
- 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
- 22: CLEAN D.O. METERS
- 23: CHECK CLARIFIER OIL WEEKLY
- 24: REPAIR DIGESTER FLOW METER
- 25: REPAIR #3 DIGESTER MIXER
- 26: CLEAN UV MODULES

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

MONTH OF

MARCH 2018

DAY	DATE	WEATHER		FLOW		PUMPS		INFLUENT DATA				SLUDGE		SBR DATA				DMR				Effluent	Visible Foam or Floating Solids in Discharge/ Comments:			
		RAINFALL (in.)	Lo AIR TEMP	INFLUENT (MGD)	EFFLUENT (MGD)	RAW PUMP ONLINE	EFFLUENT PUMP ONLINE	pH	SETTLABLE 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
T	3/1/18		51	3.2	3.1	1	4	7.0	10				22704	51368					9.0	7.6						N/D
F	3/2/18		37	3.2	3.2	1	4	7.1	5				21484						8.0	7.5						N/D
S	3/3/18			3.2	2.9	1	4						21456						7.7	7.5						
S	3/4/18			2.7	2.5	1	4						21306						7.6	7.6						
M	3/5/18		61	3.1	2.7	1	4	6.8	3				21328	54185	850	750	750	750	7.2	7.5						N/D
T	3/6/18		36	3.1	2.8	1	4	6.9	5				20288	54288	900	750	800	750	7.4	7.6						N/D
W	3/7/18		30	2.9	2.8	1	4	6.9	5	124	119	20	22512	54431	850	800	800	800	7.4	7.5	3.7	0.2	3.0			N/D
T	3/8/18		30	2.8	2.5	1	4						23665	54358					7.2	7.5						N/D
F	3/9/18		46	2.7	2.4	1	4						21106	54182					7.2	7.4						N/D
S	3/10/18			2.4	2.2	1	4						20186						7.2	7.6						
S	3/11/18			2.5	2.4	1	4						20254						7.4	8.0						
M	3/12/18		35	2.5	2.6	1	4	6.8	4				22678	54595	850	800	850	900	7.0	8.0						N/D
T	3/13/18		31	2.4	2.3	1	4	6.9	10				21480	54079	900	800	900	850	7.2	7.6						N/D
W	3/14/18		31	2.5	2.1	1	4	7.2	5	84.9	132.3	20	21474	60374	900	800	850	850	7.2	7.4	3.2	1.3	4.7			N/D
T	3/15/18		43	2.5	2.2	1	4	6.9	1				21234	60134					7.4	7.6						N/D
F	3/16/18		61	2.4	2.2	1	4	6.9	5				21706	57260					7.2	7.5						N/D
S	3/17/18			2.3	2.1	1	4						21760						7.4	7.5						
S	3/18/18			2.4	2.2	1	4						20118						7.0	7.4						
M	3/19/18		49	2.5	2.3	1	4	7.0	3				21480	58237	850	850	900	850	7.4	7.5						N/D
T	3/20/18		41	2.2	1.9	1	4	7.1	15				21454	56319	900	900	900	850	7.4	7.5						N/D
W	3/21/18		37	2.4	2.2	1	4	7.1	10	67.4	138.9	32	23924	56226	900	900	900	900	7.4	7.7	2.5	0.2	2.6			N/D
T	3/22/18		45	2.3	2.1	1	4	6.9	3				21430	56119					7.6	7.7						N/D
F	3/23/18		59	2.3	2.2	1	4	7.0	15				21874	56154					8.2	7.5						N/D
S	3/24/18			2.2	1.9	1	4						21794						7.7	7.6						
S	3/25/18			2.3	2.1	1	4						21772						7.7	7.6						
M	3/26/18		62	2.5	2.3	1	4	6.9	100				21342	58611	900	750	750	850	7.5	7.5						N/D
T	3/27/18		15	2.4	2.9	1	4	7.1	8				20480	58452	750	900	850	850	8.2	7.5						N/D
W	3/28/18	1.5	51	3.2	2.9	1	4	7.1	10				21300	58240	900	850	900	900	8.2	7.6						N/D
T	3/29/18		51	3.3	3.2	1	4	7.0	20				20606	45850					9.0	7.5						N/D
F	3/30/18			3.3	3.0	1	4						21488													
S	3/31/18			2.9	2.8	1	4						20196													

Process Water and Sludge Flow Report

March 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)
3/1/2018	2.849	0.082	0.262	3.193	3.416	51.368	0.000	0.000	11.352
3/2/2018	2.894	0.073	0.274	3.241	2.874	53.911	0.000	0.000	10.742
3/3/2018	2.516	0.033	0.306	2.855	2.555	0.021	0.000	0.000	10.728
3/4/2018	2.453	0.029	0.225	2.707	2.511	0.023	0.000	0.000	10.654
3/5/2018	2.856	0.069	0.194	3.120	2.696	54.185	0.000	0.000	10.664
3/6/2018	2.817	0.074	0.165	3.056	2.792	54.288	0.000	0.000	10.144
3/7/2018	2.678	0.067	0.171	2.917	2.767	54.431	0.000	0.000	11.256
3/8/2018	2.510	0.080	0.200	2.790	2.450	54.358	0.000	0.000	11.833
3/9/2018	2.354	0.071	0.228	2.652	2.406	54.182	0.000	0.000	10.553
3/10/2018	2.126	0.027	0.288	2.441	2.205	0.004	0.000	0.000	10.093
3/11/2018	2.227	0.029	0.251	2.507	2.886	0.050	0.000	0.000	10.127
3/12/2018	2.229	0.073	0.217	2.518	2.598	54.595	0.000	0.000	11.339
3/13/2018	2.135	0.068	0.225	2.428	2.293	54.079	0.000	0.000	10.740
3/14/2018	2.163	0.082	0.228	2.474	2.076	60.377	0.000	0.000	10.737
3/15/2018	2.127	0.082	0.268	2.477	2.151	60.134	0.000	0.000	10.617
3/16/2018	2.077	0.075	0.295	2.447	2.160	57.260	0.000	0.000	10.853
3/17/2018	1.977	0.031	0.296	2.304	2.087	0.075	0.000	0.000	10.880
3/18/2018	2.143	0.029	0.232	2.404	2.224	0.057	0.000	0.000	10.059
3/19/2018	2.218	0.070	0.215	2.503	2.270	58.237	0.000	0.000	10.740
3/20/2018	1.937	0.076	0.172	2.185	1.937	56.319	0.000	0.000	10.727
3/21/2018	2.114	0.072	0.201	2.388	2.168	56.226	0.000	0.000	11.962
3/22/2018	2.074	0.078	0.206	2.358	2.078	56.119	0.000	0.000	10.715
3/23/2018	2.004	0.071	0.252	2.328	2.177	56.154	0.000	0.000	10.937
3/24/2018	1.865	0.033	0.270	2.169	1.898	0.012	0.000	0.000	10.852
3/25/2018	2.042	0.027	0.221	2.289	2.065	0.064	0.000	0.000	10.886
3/26/2018	2.152	0.083	0.216	2.452	2.288	58.611	0.000	0.000	10.671
3/27/2018	2.968	0.103	0.314	3.386	2.936	58.452	0.000	0.000	10.240
3/28/2018	2.797	0.073	0.279	3.149	2.928	58.240	0.000	0.000	10.650
3/29/2018	2.923	0.068	0.276	3.266	3.203	45.850	0.000	0.000	10.303
3/30/2018	2.929	0.029	0.304	3.262	2.963	0.099	0.000	0.000	10.744

Monday, April 02, 2018

3/31/2018	2.568	0.031	0.282	2.880	2.789	0.058	0.000	0.000	10.098
Sum	73.720	1.888	7.537	83.145	76.849	1167.836	0.000	0.000	332.893
Avg	2.378	0.061	0.243	2.682	2.479	37.672	0.000	0.000	10.738
Min	1.865	0.027	0.165	2.169	1.898	0.004	0.000	0.000	10.059
Max	2.968	0.103	0.314	3.386	3.416	60.377	0.000	0.000	11.962



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

3/1/18 to 3/30/18

Tests Processed

<u>68</u>	Bac-t's
<u>84</u>	BOD's
<u>20</u>	TSS's
<u>27</u>	NH3's
<u>0</u>	DO's
<u>37</u>	Ph's
<u>0</u>	Fecal Coliforms (May 1 st – Sept. 30 th)
<u>0</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
- Pretreatment
- Landfill Reports
- DMR-QA 38 Notifications
- WS-259 Test



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 4/2/2018
To: Utilities Authority
From: Phillip Hightower, Water Treatment Plant
Re: Water Treatment Plant Operational Reports - March 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
MOR #1 - March 2018	Exhibit	4/2/2018
MOR #2 - March 2018	Exhibit	4/2/2018
Projects Schedule - March 2018	Exhibit	4/2/2018

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

Durant City Utilities Authority

PO Box 578

Durant OK

74702

Plant: Durant Water Treatment F

PWSID: 1010601

Month: March 2018

Population: 19,491

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.										ALKALINITY						pH			CaCO3 STABILITY Method:	HARDNESS		Chlorite residual	Chlorite lbs/day	REMARKS					
		FILTERS USED-HOURS									ALUM	LIME	POLYMER Name:		CARBON	OTHER Name: NH2SIF6	OTHER Name: copper sul	CHLORINE		"P"		TOTAL AM		CLO2 Residual		TOTAL PM		AM PM			AM	(ppm)								
		1	2	3	4	5	6	7	8									PRE	POST	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT			RAW				FILT	RAW	FILT	RAW	FILT
1	3,501	24	24	24	24	24	24	23	23	70	2400	0	60	825	0	0	0	100	40					112	110		0.14	132	106	7.3	7.4	7.5	132	114	146	0.71	320			
2	3,240	23	24	24	24	23	24	24	24	60	2000	0	60	1100	0	0	0	145	55					120	110		0.16	120	104	7.5	7.2	7.3	126	120	124	0.47	320			
3	3,163	24	24	24	24	23	23	24	24	62	1800	0	60	550	0	0	0	130	50					116	100		0.2	134	104	6.7	7	6.8	116	126	152	0.51	280			
4	3,592	24	23	23	24	24	24	24	24	70	1800	0	50	1100	0	0	0	150	50					114	100		0.26	126	104	7.1	7	7.4	114	122	132	0.61	280			
5	3,631	24	24	24	24	24	24	22	23	65	2000	0	50	963	0	0	0	190	50					120	110		0.12	132	104	7.1	7.3	7.5	114	122	134	0.71	280			
6	4,106	23	24	24	23	24	24	24	24	70	2300	0	50	963	0	0	0	180	60					108	100		0.08	118	100	7.4	7.1	7.3	110	136	126	0.66	320			
7	4,199	24	24	24	24	22	22	24	24	70	2500	0	50	1238	0	0	0	220	80					122	100		0.15	120	110	7	7.2	7.3	106	124	132	0.57	320			
8	4,223	24	23	23	24	24	24	24	24	70	2400	0	50	1238	0	0	0	210	70					110	100		0.09	126	96	7.3	7.1	7.2	98	126	126	0.66	320			
9	4,250	24	24	24	24	24	24	23	23	70	2300	0	50	1100	0	0	0	210	70					108	96		0.15	114	94	7.1	7	7.3	108	152	138	0.57	320			
10	3,824	23	24	24	23	24	24	24	24	70	2400	0	50	1100	0	0	0	220	70					102	94		0.19	130	96	7.5	7.2	7.3	120	132	124	0.61	320			
11	4,040	24	24	24	24	23	23	24	24	70	2300	0	50	1375	0	0	0	220	70					116	98		0.11	124	94	7.3	7.4	7.5	100	142	166	0.57	320			
12	4,010	24	23	23	24	24	24	24	24	70	1700	0	50	1375	0	0	0	120	60					108	96		0.2	262	100	6.9	6.8	7.1	98	128	122	0.57	300	switch source to Blue Rver		
13	3,971	24	24	24	24	24	24	23	23	70	1200	0	50	0	0	0	0	120	60					260	138		0.2	268	198	7.7	7.3	7.4	116	300	160	0.57	300			
14	3,992	23	24	24	23	24	24	24	24	70	1200	0	50	0	0	0	0	80	60					264	210		0.1	262	236	7.8	7	7.2	142	270	270	0.57	300			
15	4,416	24	24	24	24	23	23	24	24	70	1400	0	50	0	0	0	0	70	50					254	236		0.1	270	232	7.8	7.2	7.4	208	288	270	0.47	300			
16	4,317	24	23	23	24	24	24	24	24	70	1200	0	50	0	0	0	0	80	60					276	248		0.25	264	240	7.7	7.2	7.3	254	284	280	0.57	300			
17	4,370	24	24	24	24	24	24	23	23	70	1400	0	50	0	0	0	0	110	70					264	238		0.15	266	242	7.8	7.3	7.5	244	290	290	0.52	300			
18	3,881	23	25	25	23	24	24	24	24	70	1200	0	50	0	0	0	0	50	50					262	230		0.15	282	246	7.8	7	7.2	238	286	280	0.52	300			
19	3,790	24	24	24	24	23	23	24	24	70	1500	0	50	0	0	0	0	80	60					276	256		0.06	320	244	7.8	7.2	7.3	252	286	284	0.57	300			
20	3,962	24	23	23	24	24	24	24	24	70	1300	0	50	0	0	0	0	50	60					272	248		0.16	276	244	8	7.2	7.4	250	280	290	0.52	300			
21	4,226	24	24	24	24	24	24	23	23	70	1200	0	50	0	0	0	0	50	60					262	234		0.1	278	254	8	7.4	7.5	234	280	280	0.52	300			
22	3,883	23	24	24	23	24	24	24	24	70	1100	0	50	0	0	0	0	60	40					276	254		0.1	284	248	7.9	7.1	7.2	252	282	276	0.66	300			
23	3,714	24	24	24	24	23	23	24	24	66	1100	0	50	0	0	0	0	50	50					286	256		0.08	278	248	7.8	7.2	7.5	264	286	280	0.47	300			
24	3,934	24	23	23	24	24	24	24	24	70	1000	0	50	0	0	0	0	60	60					280	250		0.12	280	246	7.9	7.4	7.4	248	274	272	0.66	300			
25	3,996	24	24	24	24	24	24	23	23	70	1100	0	50	0	0	0	0	60	40					262	248		0.14	276	240	7.9	7.4	7.6	250	276	292	0.61	300			
26	4,010	23	24	24	23	24	24	24	24	70	1400	0	50	0	0	0	0	60	40					276	256		0.13	284	260	7.7	7	7.2	250	282	282	0.76	300			
27	4,047	24	24	24	24	23	23	24	24	70	1900	0	50	0	0	0	0	170	70					254	240		0.15	124	246	8	7.5	7.2	248	298	300	0.71	300	switch to Lake Durant		
28	3,992	24	23	23	24	24	24	24	24	70	2300	0	50	900	0	0	0	200	80					114	220		0.14	126	160	7.1	7	7.8	238	128	220	0.76	300			
29	3,967	24	24	24	24	24	24	24	24		2100	0	50	1100	0	0	0	200	80					118	126		0.1	124	118	7.2	7.4	7.5	200	158	156	0.71	300			
30	3,960	24	24	24	24	24	24	23	23	72	2200	0	50	1100	0	0	0	220	80					110	106		0.17	122	112	7.2	7.4	7.3	132	132	138	0.66	300			
31	3,969	23	24	24	23	24	24	24	24	72	2100	0	50	825	0	0	0	200	60					106	100		0.1	120	104	7.1	7.1	7.3	110	120	126	0.57	300			
TOT	122176	736	736	736	736	736	736	735	736	2077	53800		1580	16852				4065	1855					5828	5308		4.35	5869	5088.4	232	223	228	5472	6344	6368	18.62	9400			
Avg	3941	24	24	24	24	24	24	24	24	67	1735		50.97	544				131	60					188	171		0	189	164	7.5	7.2	7.3	176.5	205	205	0.601	#####			

Power Costs	\$17,527.92
Labor Costs	\$30,110.25
Chemicals	\$18,207.67
Supplies	\$587.71
Repairs	\$10,884.42
TOTAL	\$77,317.97

Cost per thousand Gallons \$ 0.63

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

PhillipHightower

DEQ Form # 630-577A
Revised 9/1/2000

% Wash Water Used

1.70%

Title

Water Treatment Plant Supervisor

Oper. Cert. No.

B 90404

Ave. Head Loss for Washing

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS

Durant City Utilities Authority

System

PO Box 578

Address

Durant

City

74702

ZIP

Plant: Durant Water Treatment Plant

PWSID: 1010601

Month: March 2018

Population: 19,491

☒ Rapid Rate Filter

☐ Slow Sand Filter

No. OF

% OF TOTAL

SAMPLES

SAMPLES

TURBIDITY GREATER THAN 0.5 NTU:

0

0%

◀

TURBIDITY GREATER THAN 0.3 NTU:

0

0%

◀

TURBIDITY GREATER THAN 0.1 NTU:

13

7%

TOTAL NO. OF TURBIDITY ANALYSES:

186

HIGHEST TURBIDITY READING

0.14

◀

NUMBER OF SAMPLES > 1 NTU

0

◀

NUMBER OF SAMPLES > 5 NTU

0

◀

95TH PERCENTILE OF FINISHED WATER TURBIDITY

0.12

◀ NOT REQUIRED

95TH PERCENTILE OF SETTLED WATER TURBIDITY

3.19

◀ NOT REQUIRED

CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)

INDIVIDUAL FILTER TURBIDITY CHECKLIST

1. IS TURBIDITY FROM EACH INDIVIDUAL FILTER RECORDED EVERY 15 MINUTES?

☒ Yes ☐ No

2. DID ANY SINGLE FILTER EXCEED 2.0 NTU IN TWO CONSECUTIVE 15 MINUTE PERIODS?

☒ No, Go to Question 3.

☐ Yes, What date was the filter profile completed?

DID THIS SAME FILTER EXCEED 2.0 NTU IN 2 CONSECUTIVE 15-MIN PERIODS DURING THE LAST MONTH?

☐ No, Go to Question 3.

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

3. DID ANY SINGLE FILTER EXCEED 1.0 NTU IN TWO CONSECUTIVE 15 MINUTE PERIODS?

☒ No, Go to Question 4.

☐ Yes, What date was the filter profile completed?

DID THIS SAME FILTER EXCEED 1.0 NTU IN 2 CONSECUTIVE 15-MIN PERIODS DURING THE LAST 2 MONTHS?

☐ No, Go to Question 4.

☐ Yes, What date was the filter self-assessment completed?

4. DID ANY SINGLE FILTER EXCEED 0.5 NTU IN 2 CONSECUTIVE 15-MIN PERIODS AT THE END OF 4 HRS OF OPERATION?

☒ No, You are finished with the checklist.

☐ Yes, What date was the filter profile completed?

* IF ANY OF QUESTIONS 2 THROUGH 4 ARE CHECKED "YES", YOU MUST

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	14.38	2	2.5	0.14	0.12	0.08	0.08	0.05	0.05	2.50	2.67	2.70	2.66	2.54	2.14	2.40	1.94	switched to Blue River	
2	14.11	2.5	2.7	0.05	0.07	0.05	0.05	0.05	0.05	2.18	2.41	2.57	2.50	2.39	1.86	2.07	1.96		
3	16.88	2.1	2.3	0.04	0.12	0.10	0.07	0.07	0.07	1.87	2.03	2.18	2.39	2.26	1.81	1.85	1.81		
4	15.10	2.2	2.8	0.09	0.07	0.07	0.07	0.06	0.06	1.86	2.15	2.23	2.41	2.38	2.28	1.76	1.63		
5	15.78	2.4	2.6	0.07	0.14	0.10	0.12	0.09	0.08	2.34	2.56	2.66	2.71	2.45	2.07	1.96	2.16		
6	18.74	2.1	2.5	0.11	0.09	0.07	0.06	0.06	0.07	2.15	2.50	2.54	2.36	2.05	1.77	1.49	2.10		
7	19.01	2.3	3	0.07	0.14	0.10	0.07	0.07	0.07	1.80	2.31	2.59	2.64	2.45	2.24	1.60	1.50		
8	17.67	2.2	2.3	0.09	0.07	0.06	0.05	0.05	0.05	2.42	3.02	3.10	3.20	2.93	2.27	1.42	2.34		
9	16.01	2.2	2.3	0.05	0.12	0.14	0.08	0.07	0.07	2.33	2.64	2.85	3.06	2.63	2.01	2.43	1.64		
10	16.82	1.7	2.5	0.06	0.12	0.06	0.05	0.05	0.05	2.11	2.70	2.74	2.71	2.52	2.15	1.69	1.77		
11	17.95	2.2	2.1	0.05	0.14	0.09	0.07	0.06	0.07	2.24	2.56	2.70	2.78	2.68	2.02	2.05	1.70		
12	18.96	2.2	2.4	0.08	0.06	0.06	0.05	0.05	0.04	2.04	2.44	2.54	2.64	2.67	1.96	1.68	1.68		
13	6.58	3.5	3.6	0.07	0.05	0.04	0.04	0.03	0.04	1.92	2.39	2.52	2.83	2.73	2.13	1.99	1.62		
14	4.88	1.3	3.5	0.06	0.04	0.04	0.03	0.03	0.03	1.91	2.46	2.57	2.77	2.05	2.04	1.53	1.60		
15	4.68	1.5	2.3	0.05	0.04	0.03	0.03	0.03	0.03	2.10	2.74	2.87	3.05	2.72	1.94	2.10	1.71		
16	5.65	1.7	2.7	0.03	0.06	0.03	0.03	0.03	0.03	2.10	2.40	2.80	2.85	2.68	1.99	2.10	1.86		
17	7.77	2.1	2.6	0.06	0.04	0.04	0.03	0.03	0.03	2.10	2.32	2.62	2.84	2.78	2.07	1.92	2.32		
18	7.34	1.7	2.5	0.04	0.04	0.04	0.04	0.04	0.05	2.10	2.52	2.64	2.92	2.98	2.54	2.25	2.06		
19	4.91	1.4	2	0.06	0.04	0.03	0.03	0.03	0.03	2.43	2.44	2.50	2.49	2.44	1.95	2.07	2.10		
20	8.15	3.2	3	0.04	0.03	0.03	0.03	0.03	0.03	1.91	2.22	2.30	2.58	2.25	2.02	2.12	2.10		
21	6.77	1.5	2.2	0.04	0.04	0.04	0.03	0.03	0.03	2.05	2.39	2.46	2.55	2.33	2.05	1.99	2.00		
22	4.94	1.1	2.5	0.05	0.03	0.03	0.03	0.03	0.03	2.04	2.39	2.48	2.59	2.62	2.03	2.11	1.99		
23	5.64	1.5	2.3	0.04	0.06	0.03	0.03	0.03	0.03	1.98	2.23	2.26	2.39	2.37	2.15	1.97	2.01		
24	7.79	1.9	1.8	0.05	0.04	0.03	0.03	0.03	0.03	2.13	2.23	2.36	2.41	2.36	2.11	1.94	2.08		
25	8.04	1.9	2.5	0.05	0.04	0.04	0.04	0.04	0.03	2.15	2.40	2.44	2.61	2.61	2.49	2.03	2.17		
26	8.43	1.5	1.9	0.04	0.03	0.03	0.03	0.03	0.03	2.49	2.64	2.66	2.65	2.56	2.34	1.89	1.92		
27	8.76	1.6	1.7	0.04	0.03	0.03	0.03	0.04	0.04	2.37	2.64	2.64	2.63	2.46	2.38	2.24	2.00		
28	9.08	1.5	1.9	0.06	0.05	0.05	0.05	0.05	0.05	2.41	2.66	2.70	2.73	2.72	2.64	2.01	2.39		
29	8.34	1.2	1.8	0.05	0.05	0.05	0.04	0.04	0.04	2.68	2.81	2.82	2.81	2.67	2.30	2.32	2.01		
30	7.89	1.1	1.8	0.12	0.11	0.08	0.05	0.05	0.06	2.43	2.67	2.85	2.98	2.83	2.07	1.95	2.21		
31	8.16	1.3	2	0.06	0.07	0.07	0.06	0.06	0.07	2.16	2.47	2.67	2.80	2.64	1.98	1.86	2.17		



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule March 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. Attended monthly safety meeting
16. Put o-ring kit in CL2 Pre Rotometer
17. Put valve actuator on #7 surface wash valve
18. Replaced motor to pump coupler on #2 pump at Cardinal Glass Pump Station
19. Replaced light bulbs downstairs in the old chemical building
20. Mowed Plant grounds
21. Weed eaten Plant grounds
22. Fixed broken jumper wire and fuses in #7 surface wash valve actuator
23. Painted New Plant clarifier where cement chipped and fell off
24. Installed VFD on #4 raw pump motor and put online
25. Painted door at Cardinal Glass Pump Station
26. Pulled #4 motor at High Service Pump Station to be repaired
27. Replaced 110volt receptacle in New Plant finished water vault started sump pump and pumped out vault
28. Changed out broken water faucet on #3 raw water discharge line
29. Treated 122,176,000 gallons of water

B. Work Planned for January-December

Approx Start/Finish Date

- | | |
|--|---------------------|
| 1. Paint buildings | Time permitting |
| 2. Install rebuilt motor at High Service | When it is recieved |
| 3. Finsh covering up valves at Chuckwa Tower | Time Permitting |
| 4. Put Gravel at Chuckwa Tower | Time Permitting |
| 5. Put Gravel at Raw Pump Station | 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