

To: Honorable Mayor and City Councilors
From: Michael Spurgeon, City Manager
Date: December 31, 2020
Re: Notes to Council

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION

- Utilities Department Monthly Report – November 2020

2. GENERAL CORRESPONDENCE / NOTIFICATION

- N/A

3. SPECIAL EVENTS / ACTIVITIES

- N/A

Respectfully submitted

Michael Spurgeon

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION



To: Michael Spurgeon, City Manager
From: Charles Vokes, Utilities Director
Date: December 29, 2020
Re: Utilities Department Monthly Report – November 2020

	November 2020	November 2019
Water Treated, Purchased and Distributed		
Water Purchased from Tulsa	0.7 MG	0.0 MG
Water Produced at Verdigris WTP	<u>278.9 MG</u>	<u>258.6 MG</u>
Total	279.6 MG	258.6 MG
Wastewater Treated		
Lynn Lane Plant	149.2 MG	183.8 MG
Haikey Creek Plant flow from BA	<u>115.3 MG</u>	<u>168.7 MG</u>
Total	264.5 MG	352.5 MG
Haikey Creek Plant flow from Tulsa	185.4 MG	219.5 MG

LLWWTF Summary

David Handy, Plant Manager

Preventive Maintenance (12.5 person-hrs total)

1. Changed out filters on air make up unit at headworks (0.5 hour)
2. Flushed and changed oil on west clarifier (8 hours)
3. Tested chlorine leak detection sensors (0.5 hour)
4. Checked effluent flowmeter calibration (0.5 hour)
5. Weekly lubrication for influent channel screen (1 hour)
6. Cleared compactors of built up rags (1 hour)
7. Tightened belts on bio filter fan (0.5 hour)
8. Washed and dried five bio filters for head works (1 hour)
9. Power washed clarifier (2 hours)
10. Troubleshoot and reset south bar screen (1 hour)
11. Flushed and changed oil on east clarifier (1 hour)
12. Put 6" blind flange on decanter in north digester (1 hour)
13. Performed quarterly lubrication of equipment and motors (4 hours)
14. Checked pumps in non pot building
15. Changed out filters on top of headworks and bio filter (1 hour)
16. Cleaned out WAS pumps (1 hour)
17. Changed out RAS pump (0.5 hour)
18. Cleaned out west and east head cells and tea cups (9 hours)

Corrective Maintenance

1. Installed sump pump in RAS basement
2. Cleaned out number 2 WAS pump-had to take off elbow and reinstall

Other Maintenance

1. Changed out roll off dumpster in head works

Utilities Distribution/Collections Maintenance Summary Water Distribution-Travis Schemonia, Water Supervisor

Preventive Maintenance

1. Line locates-1656
2. Valve truck crew exercised 171 valves for the month, bringing the total to 1363 for 2020
3. Fire hydrants inspected and greased-420, bringing the total to 2604 for 2020
4. Fire hydrants painted-0
5. Fire hydrants greased/oiled-54

Corrective Maintenance

1. Meter leak repairs-6
2. Distribution main leak repaired-15
3. Curb stops replaced-11
4. Defective meters replaced-2
5. Water system service requests-63
6. Broken meter/valve boxes replaced-10
7. Cleaned and restored yards after water line repair-15
8. Fire hydrants repaired-0
9. Fire hydrants replaced-1
10. Service line breaks-18
11. After hours sewer calls-3
12. Repaired 2" service line for Parks Department

Other

1. New taps and meters-57
2. Water pressure tests-3
3. Service crossings installed-2
4. Assisted Meter Reading with Turn Ons/Offs-8
5. Water quality concerns-2
6. Assisted Sanitation Department with special pick ups

Water Quality

Tim Nix-Water Quality Technician

Preventive Maintenance

1. Tested chlorine levels near auto flushers-18
2. Bac-T samples collected-101
3. Collected 2 chlorine samples (am/pm) daily-60 total
4. Distribution system-tests at 11 distribution locations and 5 water tower locations-144
5. Checked chlorine levels every Friday at 5 water towers-20
6. Flushed dead end lines at 29 locations once a month and 11 locations twice a month-397,873 gallons

Corrective Maintenance

1. Water quality concern calls at 4 locations-66,011 gallons flushed
2. Response to distribution testing results-1,530,000 gallons flushed

Other

1. Total gallons flushed to improve water quality-estimated 6,514,894 gallons

Water Reclamation-David Marlow, Wastewater Collection Supervisor

Preventive Maintenance

1. CCTV inspections done-4,076 ft.
2. Routine station visits (29 lift stations and 4 booster stations)-508
3. Check valves/pumps cleaned at stations-9
4. Sewer line root cut-708 ft.
5. Sewer line locates-45
6. Sewer line cleaning-4,620 ft.
7. Lines smoked-0
8. Clean fog rods at lift stations-28
9. Clean wet wells-2

Corrective Maintenance

1. Service request calls-25
2. Sewer line blockages relieved-7
3. After hour calls-9
4. Manholes repaired-5
5. Sewer lines repaired/replaced/installed-30 ft
6. Sewer taps-2
7. Clean and restored yards after sewer line repairs-2
8. Sanitary Sewer Overflows (SSOs) reported to ODEQ-3
9. Sinkholes-2
10. Lift station repairs-
 - Shadow Trails-replaced vacuum pump & cleaned probes
 - South Park-cleaned impellar
 - Greens-replaced check valve
 - Indian Springs-replaced vacuum pump and hoses
 - Wellstone-replaced gaskets on check valve
 - Berwick-cleaned impellar, cleaned vacuum breaker and replaced 3 way valve

Other

1. Assisted Sanitation Department with special pick ups
2. Hydro vac for Water Department
3. Timberbrook-tap force main for air relief valve

Meter Reading-Derriell Bynum, Meter Reading Supervisor

Preventive Maintenance

1. Replace meters-12
2. Install Mach 10 meters-5
3. Replace meter lids-0

Corrective Maintenance

1. Replace defective AMR registers-19
2. Meter boxes replace-10
3. Replace AMR antenna-0
4. Construction meters rebuilt-0
5. Replace riser-0
6. Replace defective meter base-28

Other Maintenance

1. Meters read-39,683
2. Rereads/Leak Tests-67
3. Turn Ons for nonpayment-158
4. Turn Offs for nonpayment-175
5. New accounts-458

6. Finals-489
7. Pulled meters-4
8. Retrieve water use history from AMR and provide 90 day graph to customer-24 for a total of 310 for 2020
9. Place door hangers for bad checks-0
10. Misreads-30 for a total of 305 for 2020
11. Customer concerns-0

Utilities Construction-Tommy Kimbrough, Construction Supervisor

Preventive Maintenance

1. Kenosha, Date, Cedar water line-installed 60' of 6" C-900 water pipe
2. Date water line-chlorinated water line and Bac-T tested three times

Corrective Maintenance

1. None for this month

Other

1. Timber Ridge Cottages-installed 462' of 12" SDR 35 sewer pipe and 80' of 4" SCH 40 water pipe, four 12"x 4" tees, and two manholes
2. Made five taps for Water Division
3. Picked up dump truck from Oklahoma City for Street Department
4. Line locates-3
5. Main line leaks-5
6. Turn off-1
7. Turn on-1
8. Assisted Sewer Department with backups
9. Assisted Sanitation Department with special pick ups

Verdigris WTP-Eli Prock, Asst. Plant Manager

Preventive Maintenance (43 person-hrs total)

1. Tested eye wash/shower stations (4 hours)
2. Calibrated and bump tested MX4 monitors (0.5 hours)
3. Inspected fire extinguishers (1 hour)
4. Flushed SBS and hydrochloric acid tank overflow water traps (1 hour)
5. Cleaned plate settlers on trains 1-6 (16 hours)
6. Flushed citric acid, HCl, SBS permanganate containment areas (6 hours)
7. Installed new battery packs in hallway emergency lighting (5 hours)
8. Flushed filtrate pH probe line (0.5 hours)
9. Flushed settled and filtrate turbidimeter lines (1.5 hours)
10. Calibrated lab pH meter (0.5 hour)
11. Changed buffer and indicator in the generator room hardness monitor (0.5 hours)
12. Changed buffer and indicator solutions on high service free CL17 (0.5 hours)
13. Changed tubing on settled and finish turbidimeters (0.5 hours)
14. Replaced turbidimeter wipers on rack 5-10 (2 hours)
15. Hosed off hypochlorite, permanganate, caustic panels and pump areas (2 hours)
16. Tightened mechanical seal on caustic CIP pump (1hour)
17. Cleaned flow meter on filtrate turbidimeter (0.5 hours)

Corrective Maintenance

1. Repaired loose connection on blower 1 after cooler cabinet
2. Installed new communication model for blower 1 after cooler
3. Repaired rotameter on hypochlorite generator 3
4. Adjusted proximity switch on rack 9 reverse filtration supply actuator
5. Repaired turbidimeter hose leak on rack 7

6. Repaired leak on hypochlorite generator 1, installed 2 new 3" pvc unions and 1 new 3" tee
7. Repaired coupler o-ring leak on feed pump strainer 2
8. Repaired leaks on caustic feed panel 1" cpvc valves
9. Disassembled filtrate turbidimeter and cleared clog on internal 90 degree push lock fitting
10. Replaced test vial on rack 9 turbidimeter
11. Installed new Borger sludge pump on west pretreatment #2 position
12. Installed new circuit breaker for caustic tank heater (contractor)
13. Installed new Y-strainer and rebuild kit on pipe chase back flow preventer (contractor)

Other Maintenance

1. Performed grounds keeping duties
2. Cleaned and disinfected membrane building

Lynn Lane and Haikey Creek WWTP Industrial Pretreatment Program Summary

Lauren Kimbrough, Pretreatment Coordinator

Fats, Rags, Oil & Grease Program (FROG)-

Grease interceptor inspections

- 50 interceptors were inspected in November. Facilities that have interceptors that need immediate maintenance are being asked to have maintenance performed within 15 days.
- 13 facilities were asked to perform maintenance.

Oil/Water Separator/Sand Interceptor inspections

- City Pretreatment staff performed 19 car wash inspections in the month of November. Staff inspected manifests for oil/water separator maintenance and waste hauling, Inspected interceptor and discussed best management practices with management.

Industrial Pretreatment

Self-Monitoring Laboratory reports received and reviewed for compliance

- Blue Bell – No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$2,394.26. Surcharges have been submitted to the Finance Department for billing.
- Unifirst – No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$ 1,485.42 and submitted to the Finance Department for billing.
- Comgraphx/Communication Graphics – A permit violation was reported for silver. Please see additional comments below under “Annual Reports.”
- CSI Aerospace-No deficiencies were noted

Wastewater Treatment Plant Monitoring

- Haikey Creek-influent and effluent priority pollutant scans were performed as required, with no deficiencies noted.

2. GENERAL CORRESPONDENCE / NOTIFICATION



3. SPECIAL EVENTS / ACTIVITIES

