

To: Honorable Mayor and City Councilors
From: Michael Spurgeon, City Manager
Date: September 27, 2019
Re: Notes to Council

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION

- General Services Department Monthly Report – August 2019
- Utilities Department Monthly Report – August 2019

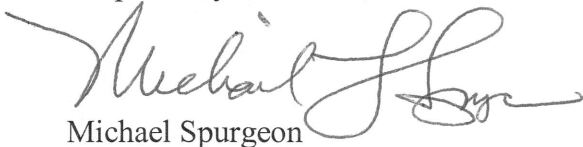
2. GENERAL CORRESPONDENCE / NOTIFICATION

- PSO Press Release – PSO seeking approval to add low-cost wind energy
- Recent news articles

3. SPECIAL EVENTS / ACTIVITIES

- N/A

Respectfully submitted,



Michael Spurgeon

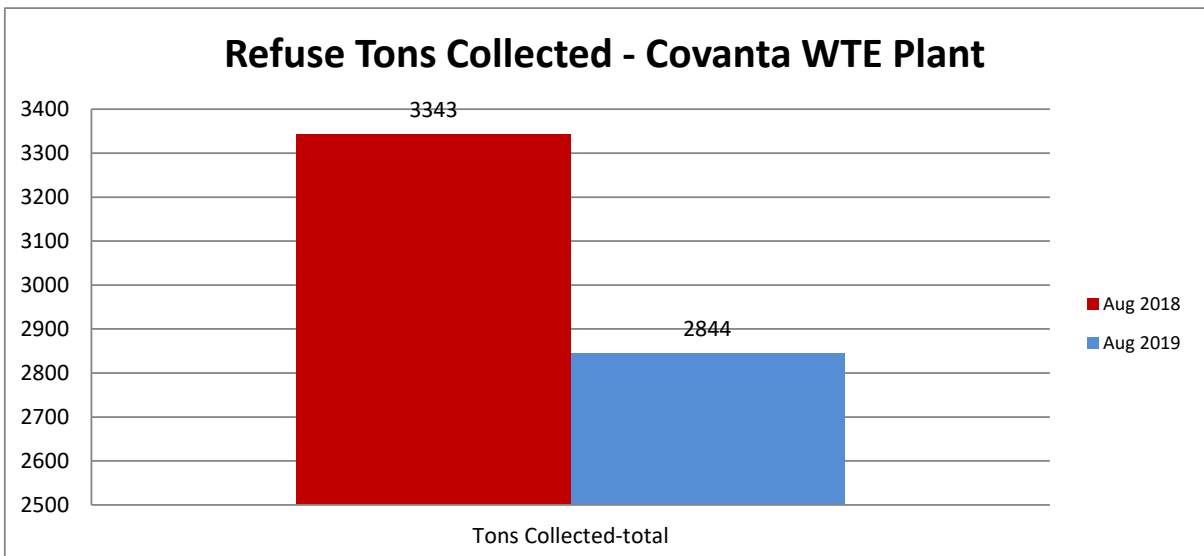
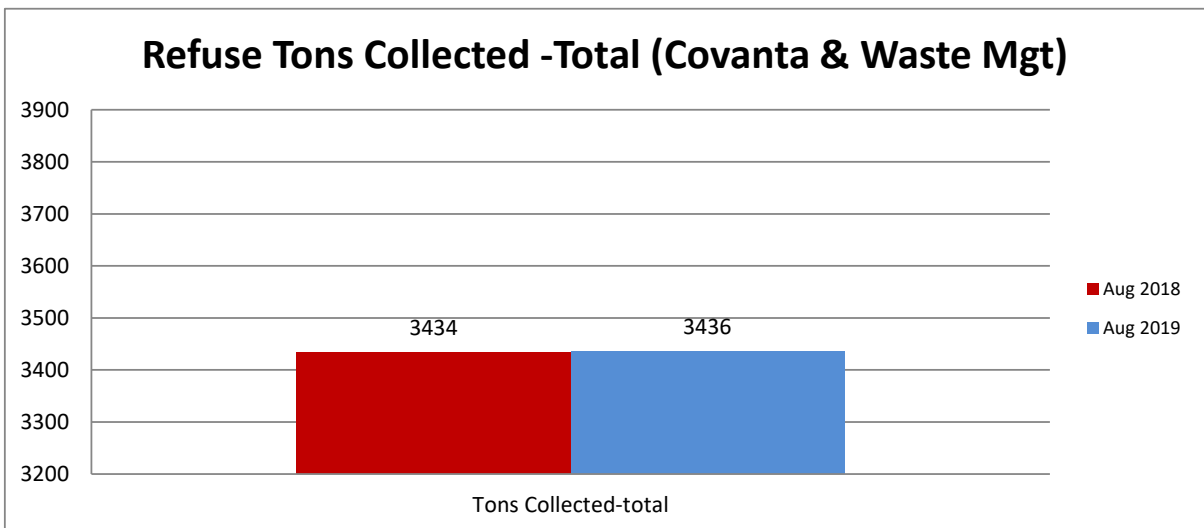
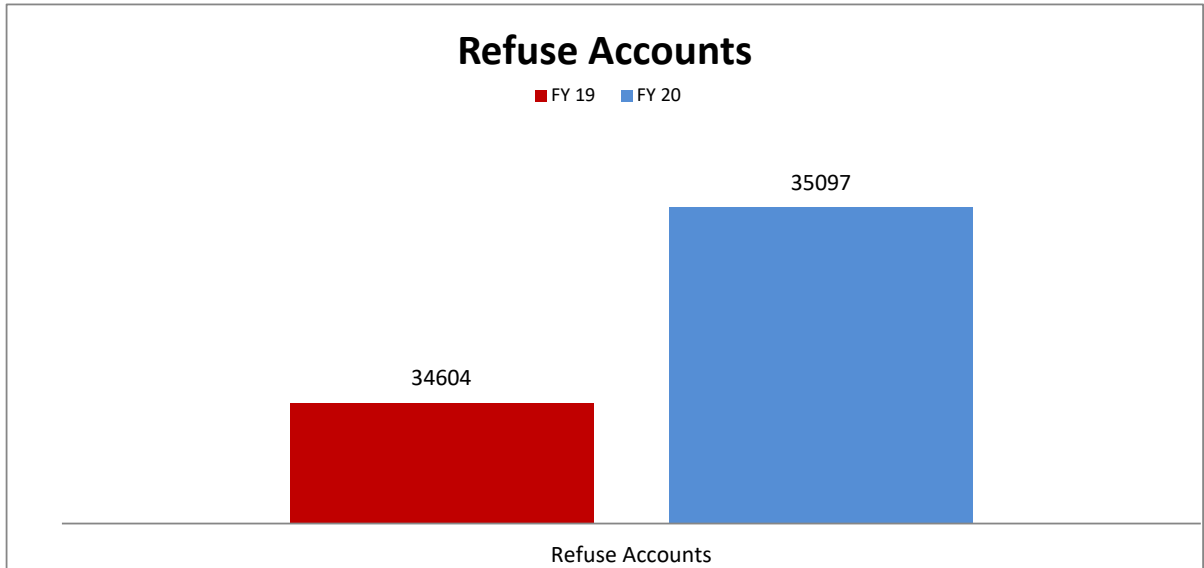
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Attachments

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION



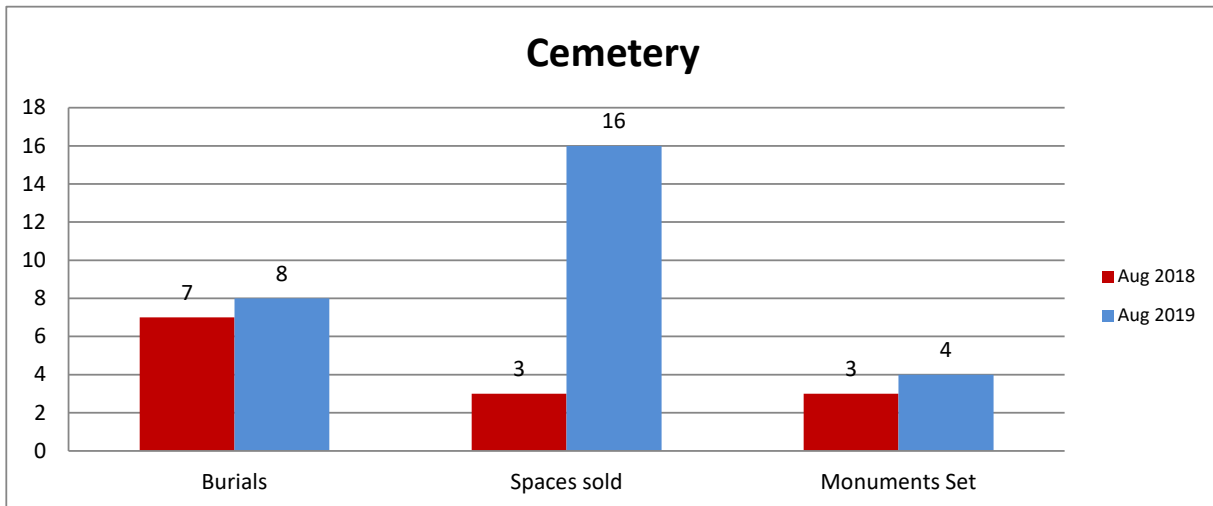
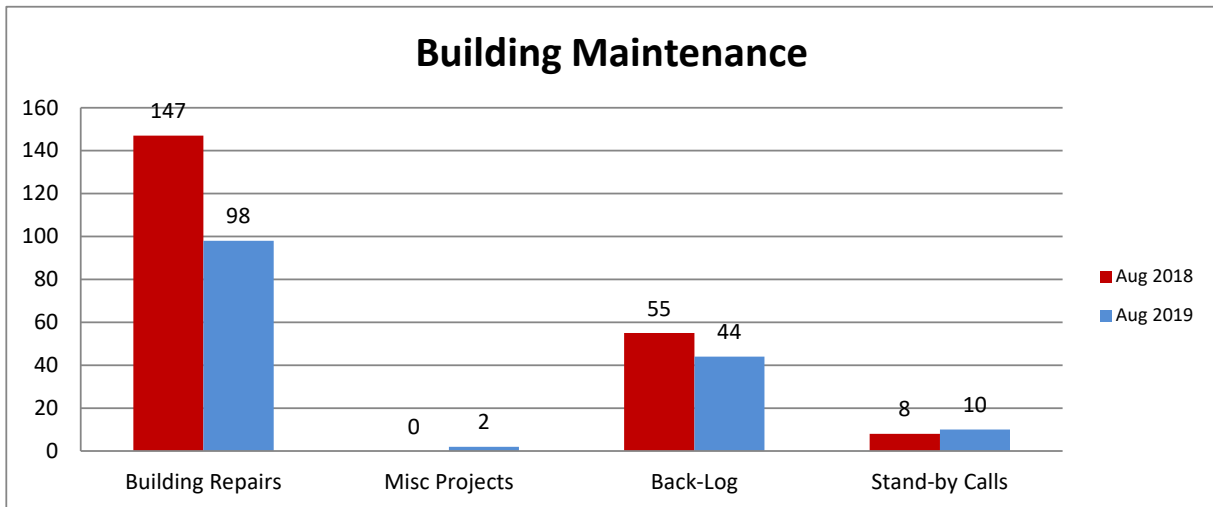
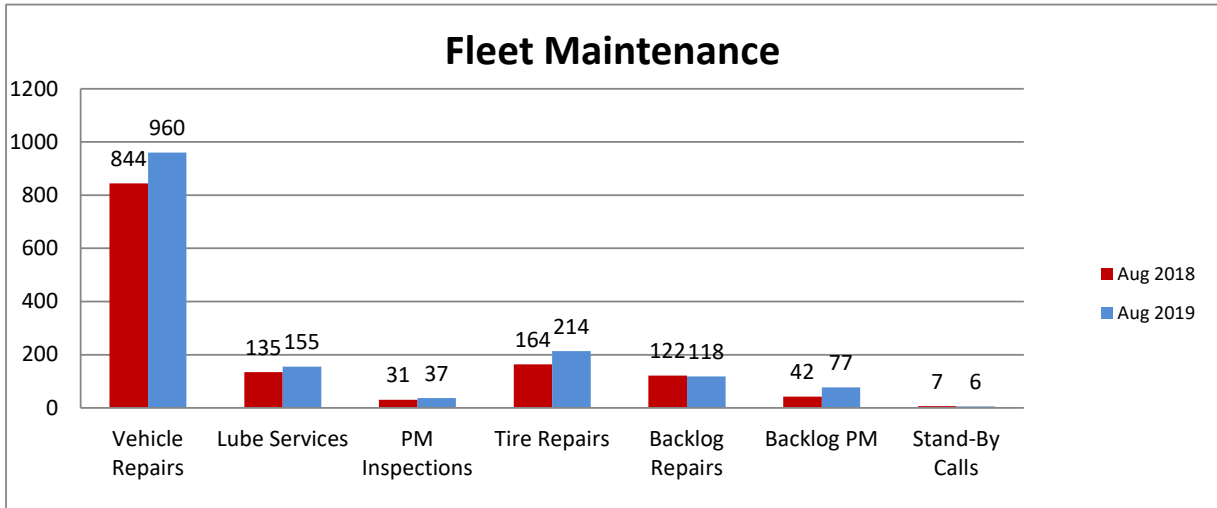
General Services Monthly Report

August 2019



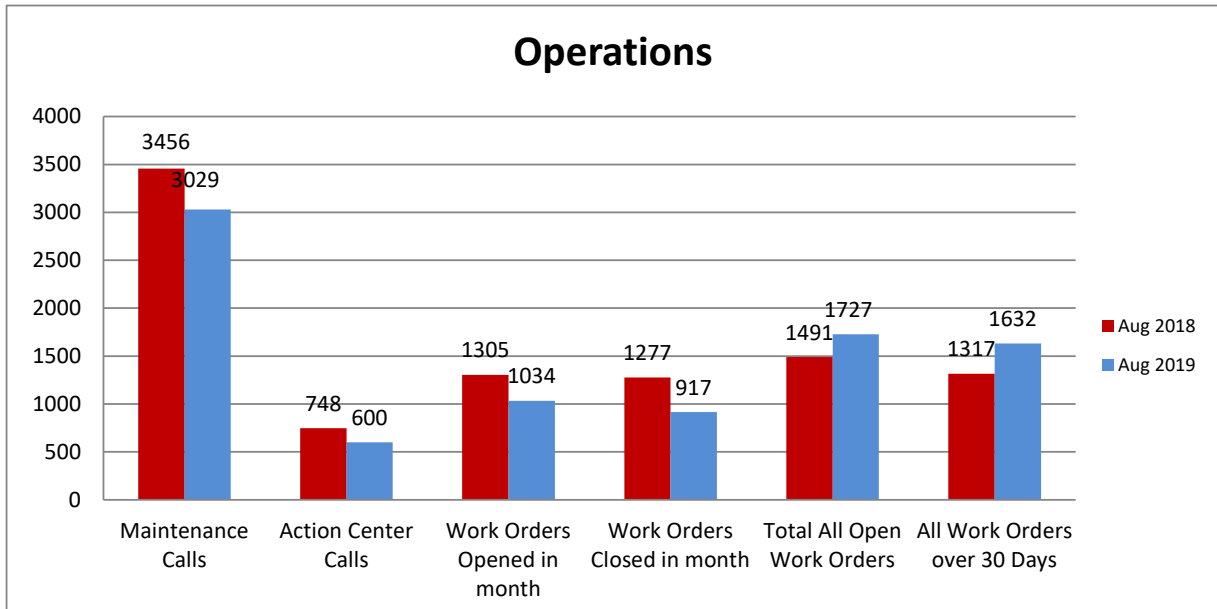
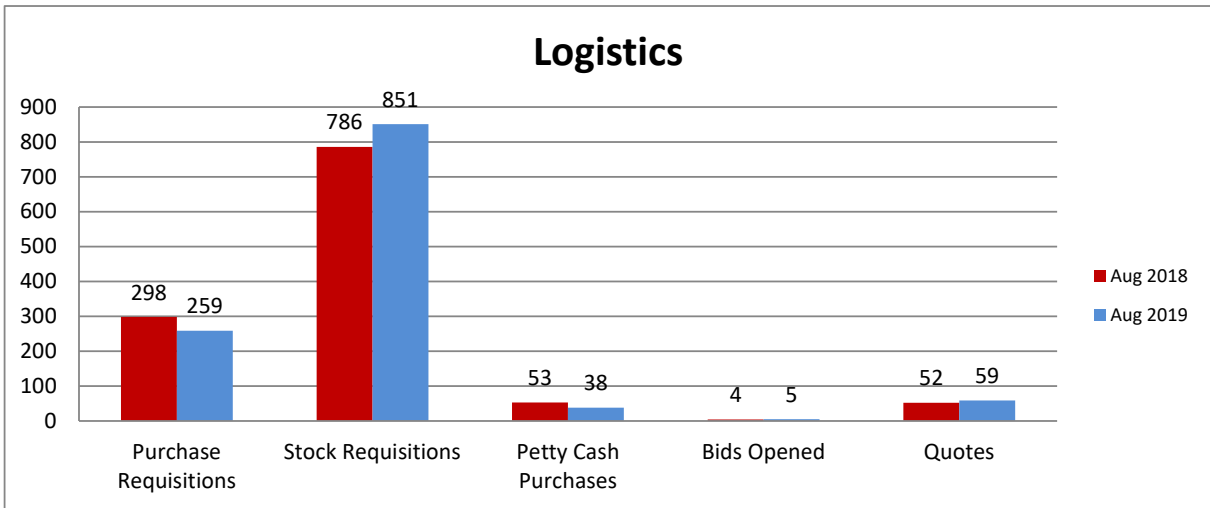
General Services Monthly Report

August 2019



General Services Monthly Report

August 2019



To: Michael Spurgeon, City Manager
From: Charles Vokes, Utilities Director
Date: September 27, 2019
Re: Utilities Department Monthly Report – August 2019

| | August 2019 | August 2018 |
|---|-----------------|-----------------|
| Water Treated, Purchased and Distributed | | |
| Water Purchased from Tulsa | 11.7 MG | 20.5 MG |
| Water – Produced at Verdigris WTP | <u>417.5 MG</u> | <u>413.3 MG</u> |
| Total | 429.2 MG | 433.8 MG |
| Wastewater Treated | | |
| Lynn Lane Plant | 157.4 MG | 123.6 MG |
| Haikey Creek Plant flow from BA | <u>150.1 MG</u> | <u>163.0 MG</u> |
| Total | 307.5 MG | 286.6 MG |
| Haikey Creek Plant flow from Tulsa | 206.3 MG | 195.6 MG |

LLWWTF Summary-

David Handy, Plant Manager

1. Removed and repaired broken bolts from aerator in west basin
2. Pumped water out of west oxidation ditch
3. Cleaned circuit board and lubricated gears on north sludge transport garage door
4. Installed new water line to eyewash station in sodium bisulfite room
5. Cleaned waste pump No. 1
6. Drained oil and flushed aerator gear boxes No. 4AR1 and 4AR2 in west oxidation ditch, No. 5AR1, 5AR2 in east oxidation ditch and added 20 quarts of oil to each
7. Removed and disassembled FEB pump for repair
8. Started cleaning of FEB
9. Performed grounds maintenance
10. Performed quarterly greasing of all motors
11. Disassembled and repaired thickener transfer pump No. 4
12. Repaired conveyer No. 3 with a new shaft and gearbox in the sludge transport building

Utilities Distribution/Collections Maintenance Summary

Water Distribution-Travis Schemonia, Water Supervisor

1. New taps and meters-39
2. Line locates-775
3. Meters replaced-4
4. Meters replaced for AMR project-21
5. Registers replaced for AMR-21
6. Meter and valve boxes repaired/replaced-14

7. Meter boxes replaced for AMR project-2
8. Meter leak repairs-11
9. Water leak calls-32
10. Distribution main leak repaired-13
11. Curb stops replaced-13
12. Valve truck crew exercised 27 valves for the month, bringing the total to 424 for 2019
13. Water system service requests-53
14. Cleaned and restored yards after water line repairs-11
15. Fire hydrants replaced-3
16. Fire hydrants repaired-4
17. Valves repaired-0
18. Service crossings installed-0
19. Assisted Meter Reading with Turn Ons-11
20. Built vault for Blue Bell using concrete forms

Water Quality

1. Tested chlorine levels near auto flushers to verify all are working-16
2. Bac-T samples collected-100
3. Collected 2 chlorine samples (am/pm) daily-60 total
4. Distribution system-tests at 12 distribution locations and 4 water tower locations
5. Checked chlorine levels daily at 4 water towers-92
6. Main lines flushed to address water quality issues-19
7. Water quality concern calls at 14 locations-405,183 gallons flushed
8. Total gallons flushed to improve water quality-estimated 4,500,000 gallons
9. Flushed dead end lines at 39 locations once a month

Water Reclamation-David Marlow, Wastewater Collection Supervisor

Lines-

1. Service request calls-39
2. Sewer line locates-101
3. Sewer line blockages relieved-4
4. After hour calls-19
5. Manholes cleaned/raised/repared-5
6. Sewer lines cleaned-890 ft.
7. Sewer lines repaired/replaced/installed-109 ft.
8. Sewer lines root cut-0
9. CCTV inspections done-690 ft.
10. Sinkholes-0
11. Sanitary Sewer Overflows (SSOs) reported to ODEQ-13
12. Cleaned and restored yards after sewer line repairs-13
13. Assisted the building maintenance department offload electrical equipment

Booster and Lift Stations-

1. Routine station visits (29 lift stations and 4 booster stations)-313
2. Check valves/pumps cleaned at stations-4
3. Groundskeeping-9
4. Booster station calls-2
5. Wet wells cleaned-2
6. Lift station maintenance and repairs-7
 - Adams Creek North-vacuumed out grease and rags
 - Adams Creek North-replaced belts on #1B

- Stone Horse-changed out vacuum bowl #2
- Stone Horse-replaced air chamber valve #2
- Stone Horse-replaced probe
- Stone Horse-replaced relays
- The Greens-replaced #3 pump
- Adams Creek North-replaced sump pump
- Adams Creek North-reinstalled all six motors

Meter Reading-Derriell Bynum, Meter Reading Supervisor

1. Replaced meters-32
2. Placed door hangers for bad checks-0
3. Turn Ons for nonpayment-237
4. Turn Offs for nonpayment-271
5. New account service initiated-655
6. Accounts finalized-634
7. Meters read-39,058
8. Rereads/leak tests-132
9. Misreads verified-15
10. Boxes replaced-2
11. Lids replaced-0
12. Met with residents to discuss their high bill/water usage concerns-2
13. AMR Project
 - Retrieved water use history from AMR radio devices and provided the 90 day graphs to the customers-15 for a total of 72 for 2019
 - AMR registers-146
 - AMR meter body-68
 - Defective AMR registers replaced-33
 - Meter boxes replaced-3
 - AMR antennas replaced-7
 - Risers replaced-1
 - Curb stop replaced-1
 - Compound meters rebuilt-0
 - Pulled meters-3
 - Mach 10 meters-4

Utilities Construction-Tommy Kimbrough, Construction Supervisor

1. BA Freshman Academy-installed 140' of 8" SDR sewer pipe
2. Angus Acres-made repair on resident's fence that was damaged during a water line installation
3. Indian Springs Apartments-repaired 8" C-900 water pipe in the creek that had washed away during the flood. Made tap, chlorinated line and passed Bac-t sample
4. Streetscapes-chlorinated water line, passed Bac-t sample and made tie-ins
5. Jasper, Olive to Gardenia water line-set 1 fire hydrant, chlorinated water line, passed Bac-t sample, made service tie-ins and made one 6" tie-in
6. 91st & Garnett-located and raised three 12" valves that were buried 2' deep
7. 115th & County Line-dirt work and repaired driveway
8. Distribution main leaks-2
9. Taps & meters set-15
10. Fire hydrant repair/replace-2

Verdigris WTP-Jimmy Helms, Plant Manager

1. Calibrated and inspected turbidity meters

2. Installed 0-5 gpm rotameter on permanganate raw water carrier line
3. Pinned broken fiber on rack #10 membrane filter (serial # 081330903)
4. Repaired front gate
5. Replaced 1/4" air fitting on CIP valve on rack #6
6. Replaced O-ring on hypochlorite transfer pump A isolation valve
7. Flushed and squeegeed hypochlorite and caustic containment areas
8. Flushed CIP room chemical containment areas
9. Acid cleaned hypochlorite generators #1- #3
10. Drained and rinsed hypochlorite generators #1- #3
11. PSI quarterly inspections on hypochlorite generators
12. Cleaned first floor room of the raw water pump station
13. Cleaned between and under membrane racks
14. Cleaned hypochlorite flow meter and transfer pumps
15. Replaced buffer and indicator solutions in all CL17s
16. Cleaned color cell on feed pump area free CL17
17. Changed settled and filtrate sample hoses in lab
18. Adjusted packing on raw water pump #3
19. Diagnosed decant pump station flow meter electronics failure
20. Repaired leak and installed new fittings and hose on house water line in high service
21. Tightened couplers on top of membrane modules on rack #5
22. Replaced the tubing on the settled and filtrate turbidity meters
23. Rebuilt 2" PVC line from dilution panel to hypochlorite bulk tanks, added 3 valves, new hoses and cam lock fittings
24. Installed new tubing and fittings on new pressure switch for east hypochlorite tank
25. Cleaned pre-treatment basin trains #1- #4
26. Repaired leak on sodium hypochlorite transfer pump A plumbing
27. Changed water and brine filters on hypochlorite generation system
28. Inspected fire extinguishers and fire alarm systems
29. Replaced all filters in the deionized water machine
30. Completed all plumbing on black hypochlorite tank, installed 1" hose to dilution panel
31. Installed new sump pump in crossover vault in between west and east basin
32. Installed water hose connection on pre sedimentation sample line
33. Flushed settled water line coming into the lab
34. Flushed pre sedimentation sample line from membrane building back to the vault
35. Ran 3/4" PEX from west basin intake structure to shared embankment vault
36. Installed sump pump in west basin intake structure for pilot sample line
37. Installed new Innomag CIP drain pump
38. Installed new hypochlorite bulk tanks
39. Ran electric to pilot plant
40. Plumbed membrane filtrate sample supply from RF tank to temporary pilot day tank
41. Completed plumbing drains on pilot project
42. Installed new surge protector and transducer at 101st water tower
43. Installed new sump pump in SBS containment area
44. Cleaned sump pumps in the hypochlorite and ACH containment areas
45. Disassembled top of 54" intermediate valve, greased internals, installed new roll pin
46. Raw water tie in connection made to new pre-treatment
47. Performed grounds keeping duties

**Lynn Lane and Haikey Creek WWTP Industrial Pretreatment Program Summary-
Lauren Wilson, Pretreatment Coordinator**

Industrial Pretreatment:

1. 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 \$5,464.37. 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 \$1,477.02 and submitted to the Finance Department for billing.
 - Mullin Plumbing –No deficiencies were noted.
 - Comgraphx/Communication Graphics – No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$74.45 and submitted to the Finance Department for billing.
 - Paccar Winch – No deficiencies noted.

2. Inspections

Federal and State Pretreatment regulations require City of Broken Arrow to perform a facility inspection and sample the process waste stream at every permitted facility a minimum of one time per year. The sampling is done in addition to the self-monitoring that is required by wastewater discharge permits. A pre-inspection file review is performed to evaluate previous year inspections, permit renewal status, violations, accidental spill prevention plan details, and site details. Automatic sampling equipment is used to perform 24-hour composite samples per EPA regulation. PH and temperature analysis is performed onsite. Samples are collected by city staff for all other required parameters, and are transported to a state certified laboratory for analysis. A bill will be issued to each facility, by the Finance Department, for reimbursement of laboratory charges. The Pretreatment Coordinator inspected the following facilities and performed wastewater sampling in August:

- Comgraphx – Silver violation, retest required within 30 days.
- Mullin Plumbing – No violations
- Blue Bell – No violations
- Unifirst – No violations
- Broken Arrow Landfill – No violations

3. Permitting

- Baker Hughes – Submitted a wastewater discharge permit application including the required \$400 fee. The application included a chemical inventory, safety data sheets, site plans, process waste stream descriptions, laboratory analysis of process waste streams, and an accidental spill prevention plan. A permit will be drafted to meet federal, state and local pretreatment regulations and forwarded to the Utilities Director for approval.

4. Meetings

EPA Region VI Pretreatment Workshop – The Pretreatment Coordinator attended the workshop in Denton Texas to receive updates from national and regional EPA regulatory staff as well as training on issues of concern. Training topics this year included:

- Federal dental amalgam rule implementation
- Permitting chemical vendors and HVAC companies
- Breweries wastewater impact and best management practices
- Water reuse and recycling
- Improving your industrial sewer user survey
- Categorical industrial user and significant industrial user inspections

2. GENERAL CORRESPONDENCE / NOTIFICATION



CONTACT:

Stan Whiteford
PSO Corporate Communications
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sawhiteford@aep.com

FOR IMMEDIATE RELEASE

PSO SEEKING APPROVAL TO ADD LOW-COST WIND ENERGY

TULSA, Oklahoma, July 15, 2019 – As part of its long-range plan to increase reliance on natural gas and renewable energy resources, Public Service Company of Oklahoma (PSO) today filed an application seeking regulatory approval to add 675 megawatts (MW) of Oklahoma wind-generated power to its energy mix. This reflects a 45.5% share of 1,485 MW total requested in conjunction with its sister company, Southwestern Electric Power Company (SWEPCO).

The proposal includes partial ownership in three Oklahoma wind generation facilities located in seven counties in north central Oklahoma – Alfalfa, Blaine, Custer, Garfield, Kingfisher, Major and Woods counties. The three facilities represent approximately a \$2 billion investment in Oklahoma and PSO's 45.5% ownership share is projected to save PSO customers over \$1 billion, net of cost, during the time they're in service.

"Our long-range goal at PSO is to rely on a well-balanced mix of natural gas and renewable sources like wind to meet the needs of our customers," said Peggy Simmons, PSO president and COO. "We're excited about this opportunity because it will save our customers money and boost the state's economy with new investment and tax revenues."

Oklahoma wind power currently makes up approximately 20 percent (1,137 MW) of the energy serving PSO's customers. The company's long-term plan shows customers will benefit from additional wind energy beginning in 2022. PSO began a robust competitive bidding process in early 2019, which determined these resources deliver the most overall value to customers.

PSO is pursuing this acquisition in conjunction with its sister company, Southwestern Electric Power Company (SWEPCO). The amount of generation acquired by PSO or SWEPCO can be scaled to align with individual state resource needs, as determined by the respective state commissions. The wind energy will come online by December 2021 pending regulatory approvals.

PSO's current energy plan also includes increased natural gas and solar generation resources to meet PSO customer needs over the next ten years.

About Public Service Company of Oklahoma (PSO)

PSO, a unit of American Electric Power (NYSE: AEP), is an electric utility company serving over 550,000 customer accounts in eastern and southwestern Oklahoma. Based in Tulsa, PSO has approximately 3,800 megawatts of generating capacity and is a significant provider of wind energy in the state. News releases and other information about PSO can be found at www.PSOklahoma.com.

About American Electric Power (AEP)

American Electric Power, based in Columbus, Ohio, is focused on building a smarter energy infrastructure and delivering new technologies and custom energy solutions to our customers. AEP's more than 18,000 employees operate and maintain the nation's largest electricity transmission system and more than 219,000 miles of distribution lines to efficiently deliver safe, reliable power to nearly 5.4 million regulated customers in 11 states. AEP also is one of the nation's largest electricity producers with approximately 32,000 megawatts of diverse generating capacity, including nearly 5,300 megawatts of renewable generation. AEP's family of companies includes utilities AEP Ohio, AEP Texas, Appalachian Power (in Virginia and West Virginia), AEP Appalachian Power (in Tennessee), Indiana Michigan Power, Kentucky Power, Public Service Company of Oklahoma, and Southwestern Electric Power Company (in Arkansas, Louisiana and east Texas). AEP also owns AEP Energy, AEP Energy Partners, AEP OnSite Partners, and AEP Renewables, which provide innovative competitive energy solutions nationwide.

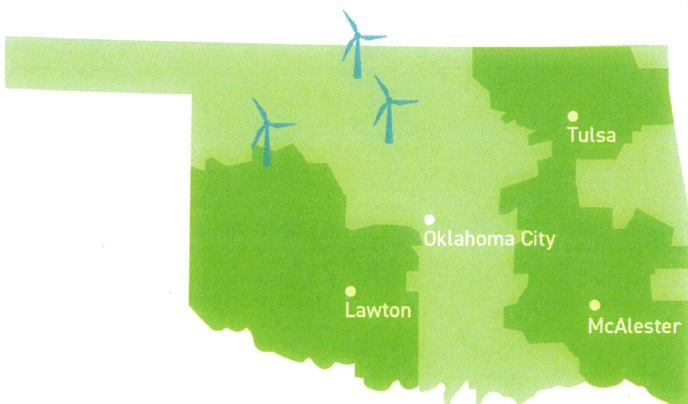
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POWER FOR THE NEXT GENERATION NORTH CENTRAL ENERGY FACILITIES

As part of our long-range plan to keep customer rates affordable by relying on natural gas and renewable resources, PSO is proposing to acquire a 675 megawatt share of three wind facilities that will generate 1,485 megawatts of wind energy.

The facilities will be located in seven Oklahoma counties: Alfalfa, Blaine, Custer, Garfield, Kingfisher, Major and Woods.



Shaded areas represent PSO's service area.

CUSTOMER BENEFITS



LOWER CUSTOMER BILLS

Customers will save over \$1 billion, net of cost, during the time these three facilities are in service.

This will provide a low-cost, renewable energy resource to help maintain stable rates for PSO customers over the next 30 years.



ECONOMIC BENEFITS

Approximately \$2 billion will be invested in Oklahoma's economy.

This economic boost will create jobs in construction, operations and maintenance while generating increased revenues for schools and infrastructure across our state.



CLEAN ENERGY FOR THE FUTURE

Oklahoma wind will power more of the energy needed for homes and businesses.

Affordable and renewable energy attracts new investment to our state while giving customers clean, reliable energy.

OKLAHOMA'S POWER TEAM: WIND AND NATURAL GAS

Providing clean, reliable and affordable energy is part of PSO's commitment to power the next generation. We'll continue to increase reliance on natural gas and renewable energy, including wind. When wind and natural gas work together, we all benefit from a well-balanced energy mix that delivers some of the lowest rates in the nation.



INTEROFFICE MEMO

To: Honorable Mayor and City Councilors
From: Jennifer Swezey, Community Relations Liaison
Date: September 27, 2019
Re: Recent News Articles

Below are some links to news coverage in Broken Arrow this week.

<https://www.fox23.com/news/broken-arrow-to-install-new-charging-stations-for-electric-cars/990037830>

<https://www.fox23.com/news/broken-arrow-works-with-pr-firm-to-develop-shop-local-campaign/990418731>

<https://www.kjrh.com/news/local-news/broken-arrow-launches-shop-local-campaign-to-boost-sales-before-the-holiday-season>

Respectfully submitted,

Jennifer Swezey

3. SPECIAL EVENTS / ACTIVITIES

