

Statistical Report

JOHNSON COUNTY
KANSAS

Wastewater

Levels of Service 2015-2018

	2015	2016	2017	2018
Employee turnover				
Separation of Service	10.0%	9.87%	9.70%	17.14%
Line Maintenance and Rehabilitation				
Miles of Line Cleaned	426.62	470.9	482.00	489.10 *
Miles of Line Televised	113.39	132.6	145.00	131.30
Permit Compliance Rate				
Percentage of Parameters In Compliance	99.87%	99.97%	99.97%	99.83%
Sewer Backups				
Dry Weather	20	26	26	17
Wet Weather	1	11	59	5
Response Time on Plan Reviews				
First Submittals 14 Days	41.6%	70.0%	74.0%	81.50%
Re-submittals 7 Days	37.7%	82.0%	78.0%	86.10%

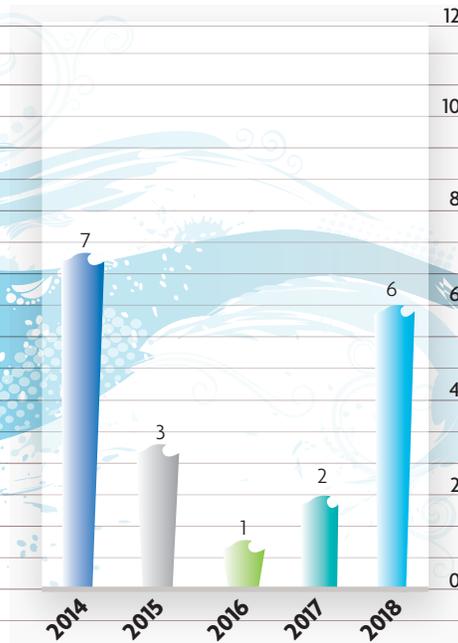
Legend

Green = Met Target
 Red = Missed Target

*The cleaning goal increased in the 4th quarter due to adjustments in the cleaning frequencies.

History of Key Activity Indicators 2014-2018

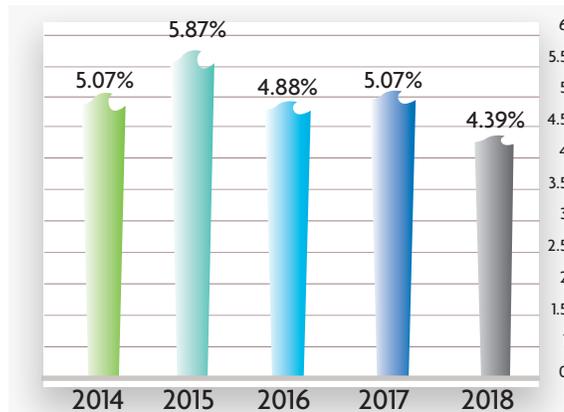
National Pollutant Discharge Elimination System Violations



99.83% Compliance in 2018

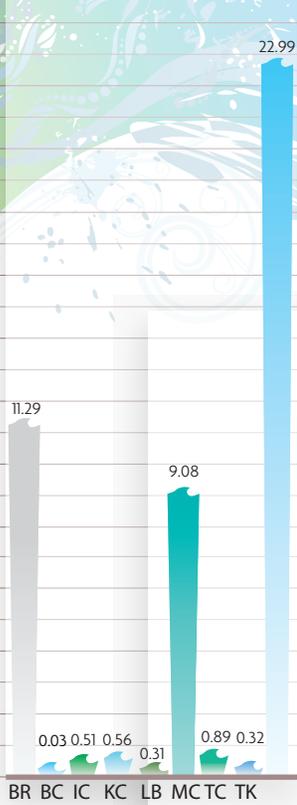
User Charge Delinquency Rate History

Johnson County Wastewater's Annual Delinquency Rate measures calendar year invoices billed versus collections for that same period. The Annual Delinquency Rate allows for budget year comparisons and year-to-year trend analysis.

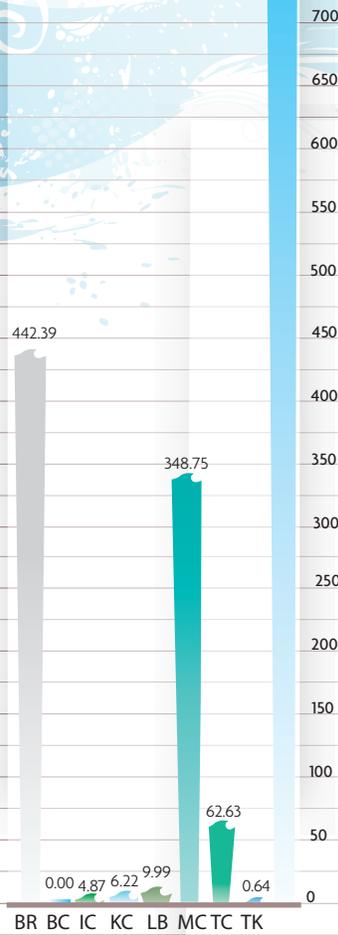


JCW Statistics: Growth Indicators

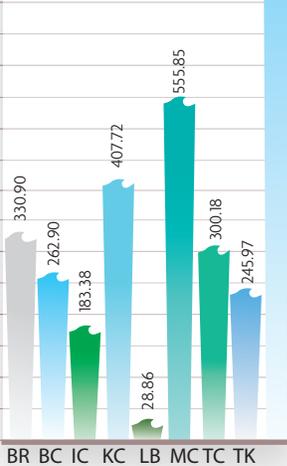
Miles of Line
in added 2018



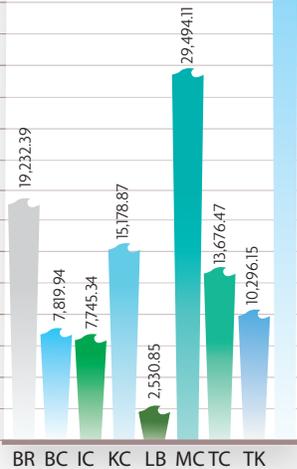
Acreage Added
in 2018



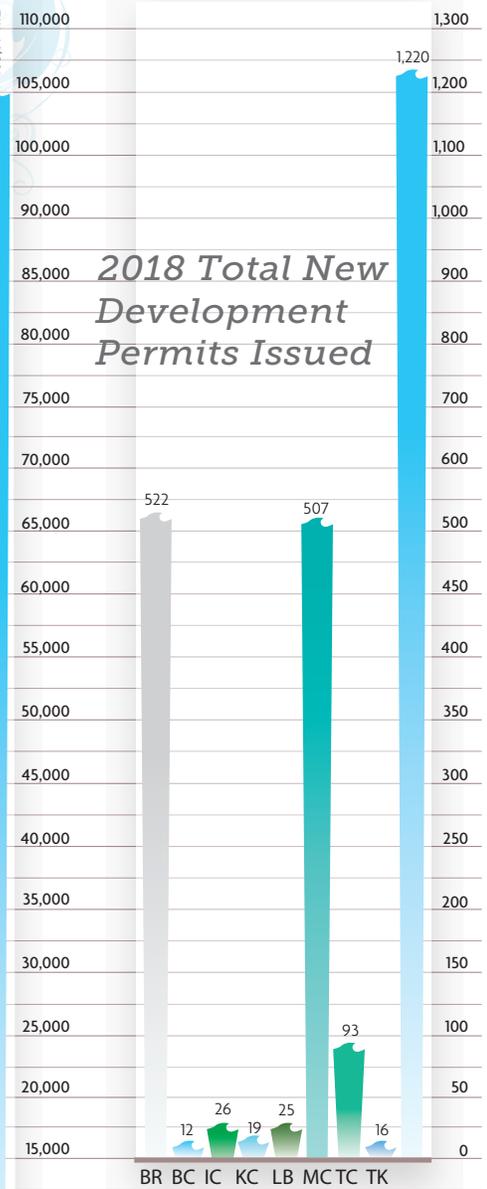
2018 Total
Miles of Line



2018 Total
Acreage



2018 Total New
Development
Permits Issued



Summary of Treatment Costs

Plant	Direct Cost (1)	Indirect Cost (2)	Total Cost (3)	Flow, MG Total Annual	Flow, MG Average Daily	BOD5, lbs	\$/MG	\$/lb BOD5
BRM	\$ 2,001,505	\$ 131,714	\$ 2,133,219	2,008	5.50	4,034,955	\$ 914	\$ 0.45
ICMB	\$ 4,891,256	\$ 321,881	\$ 5,213,137	3,577	9.80	9,546,298	\$ 1,523	\$ 0.57
MCR	\$ 2,903,619	\$ 191,080	\$ 3,094,699	3,468	9.50	7,345,413	\$ 833	\$ 0.39
NC	\$ 5,327,726	\$ 350,604	\$ 5,678,329	4,052	11.10	8,301,865	\$ 1,490	\$ 0.73
NCAC (4)	\$ 1,237,710	\$ 81,450	\$ 1,319,161	277	0.76	1,274,747	\$ 4,450	\$ 0.97
THM	\$ 496,274	\$ 32,658	\$ 528,932	949	2.60	1,487,956	\$ 1,024	\$ 0.65
KCMO (5)	\$17,417,645	\$ 1,146,210	\$ 18,563,855	5,256	14.40	10,593,103	\$ 3,532	\$ 1.75
Totals	\$34,275,735	\$ 2,255,597	\$ 36,531,332	18,834	51.60	42,584,337		
With Collections	\$40,011,111	\$ 2,633,027	\$ 42,644,138	18,834	53.70	42,584,337		
Without KCMO	\$22,593,466	\$ 1,486,817	\$ 24,080,283	14,330	39.30	31,991,234		

Legend

MG = Million Gallons

BOD5 = 5 day biochemical oxygen demand

Notes

- (1) Plant operation and maintenance cost.
- (2) Pro-rated O&M Administration and EI cost.
- (3) Does not include New Development Engineering or Wastewater Central Administration costs.
- (4) Industrial waste flow. High strength waste.
- (5) Includes O&M and capital portion of charge. Change from previous years.



Summary of Treatment Facilities

Facility Name	Watershed	Plant Capacity MGD	Plant Capacity P.E. @100GPCD	Average Daily Dry (a) Weather Flow MGD	Average Daily Flow MGD	P.E. @0.21 LBS/C/D (b)	P.E. Capacity Used	Process Type
1. Turkey Creek MCD #1	Turkey Creek	8.00	80,000	4.77	5.90	68,420	86%	TF
2. Mission Main MSD #1	Brush Creek	7.00	70,000	3.63	5.20	39,857	57%	TF
3. Tomahawk Creek MSD #1	Indian Creek	4.00	40,000	NS	2.60		0%	TF**
4. Indian Creek Middle Basin	Indian Creek	14.50	145,000	8.26	9.80	124,544 (d)	86%	BNR
5. Blue River SSD #1	Blue River	10.50	105,000	4.15	5.50	52,641	50%	BNR
6. Blue River SSD #4	Blue River	0.02	200	NA	NA	NA	NA	LAGOON *
7. Little Bull Creek SSD #2	Bull Creek	1.65	30,100	0.67	0.76	16,631	74%	ACT
8. Mill Creek Regional	Mill Creek	18.75	187,500	7.96	9.50	95,831	51%	ACT & AL
9. KCMO Tomahawk diversion				NA	12.17 (c)			
10. KCMO all Sites					14.40			
Totals		64.42	657,800	29.44	53.66	397,924		

Legend

- TF** = Trickling Filter
- ACT** = Activated Sludge
- LAGOON** = Waste Stabilization Lagoon
- AL** = Aerated Lagoon
- BNR** = Biological Nutrient Removal
- NA** = Not Applicable

Notes

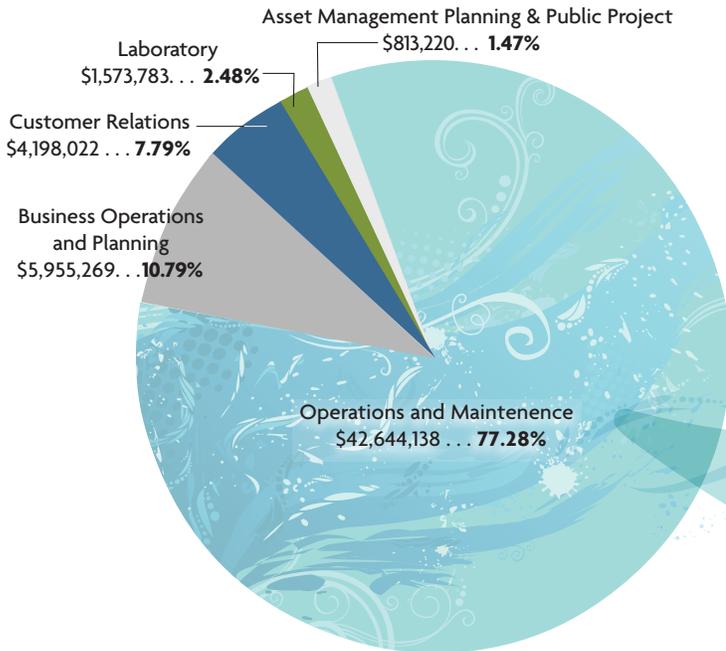
- (a) Dry Weather Flows were estimated using the lowest monthly average flow for each facility.
- (b) Pounds/Capita/Day
- (c) Not included in flow total
- (d) Sample includes recycle water from process.
- *Decommissioned in 2018
- **Under Construction



2018 Total Operating Expenses

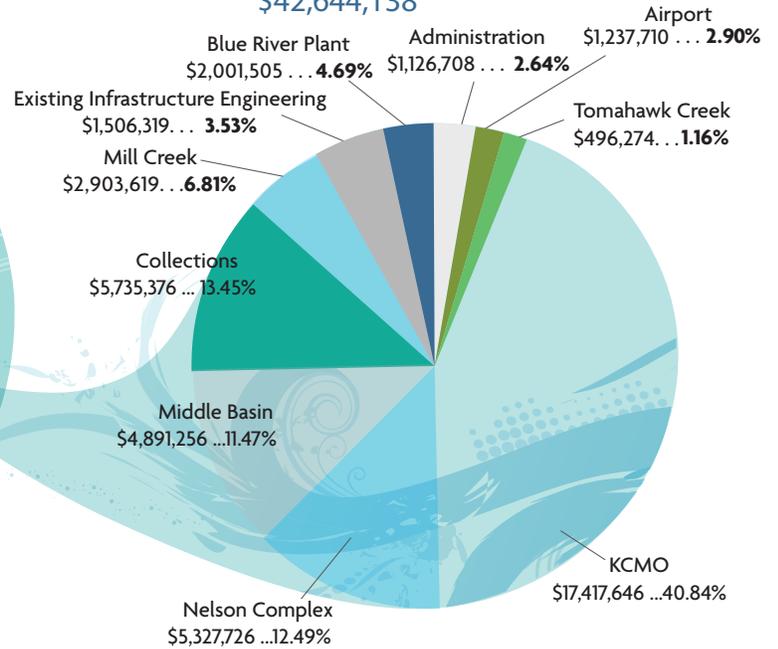
Total Operating Expenses

\$55,184,433



Operations and Maintenance

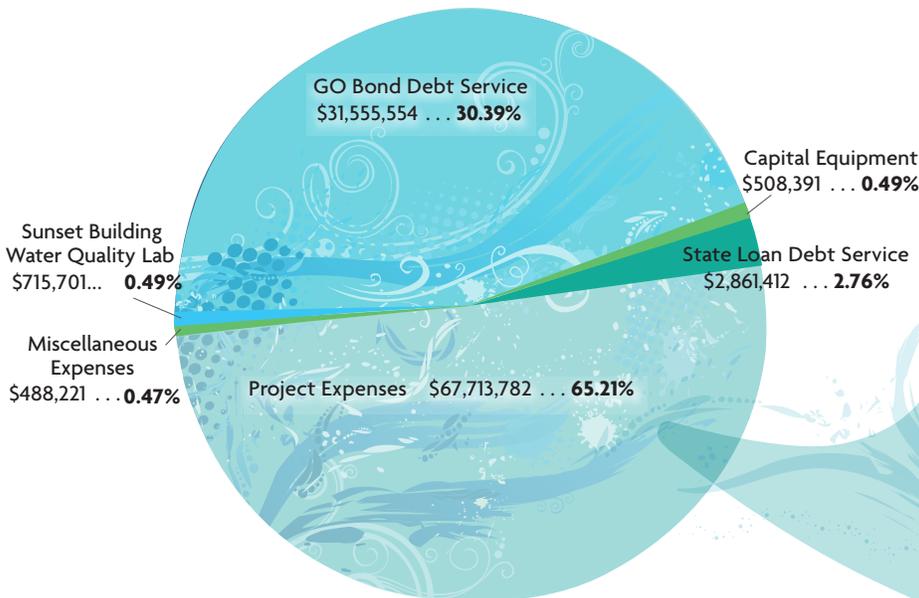
\$42,644,138



2018 Total Capital Expenses

Total Capital Expenses

\$103,843,061



2018 Capital Project Spending YTD

\$67,713,782

