



2018

Public Works Update



Mission Statement

- *To Protect the public health by providing for efficient and economical collection and treatment of wastewater.*
- *Provide for a safe and well maintained storm water drainage system.*
 - *In Other Words:*
 - *We like Frogs, Fish and Turtles*
 - *We don't like polluted & burning rivers & streams*
 - *We like to keep the water flowing down hill.*





Organization

- The Wastewater Division encompasses 2 utilities with 4 basic functional areas
- Sanitary Sewer maintenance & inspection
- Sanitary Sewage treatment and residuals disposal.
- Laboratory and Industrial waste functions
- Storm water maintenance and inspection
- Serve 25,369 customers.

Staff



- Water Reclamation
 - Collection System 1 Crew Chief & 8 Oper
 - WW Treatment 9 Op, 1 Trk Driver, 1 Maint Tech, 1 Electrician
 - Environmental Process 1 coord, 2 Lab Tech, 1 IW Inspector
- Storm Water 1 Crew chief, 5 Op
- Admin: 1 Supt, 3 Supv, 2 Admin Sec
- Total of 40 FTEs*
 - *Incl Support Personnel

Water Reclamation Finance

- 2018 – Budget \$17,177,157
 - Operations Budget \$6,191,785
 - CIP Budget: \$10,985,372

- 2017 Expenditures - \$10,864,919
 - Operations: \$4,918,603
 - CIP: \$ 5,946,316

- Fund Balance: \$1,339,467*

*As of Aug 2018

Storm Water Finance

- 2018 – Budget **\$3,811,561**
 - Operations Budget **\$1,260,021**
 - CIP Budget **\$2,551,540**

- 2017 Expenditures **\$1,730,306**
 - Operations: **\$836,000**
 - CIP: **\$894,306**

- Fund Balance **\$4,643,734***

*As of Aug 2018

Collection System

2017 Operating Statistics

- 346 miles of Sanitary Sewer
- 7119 Manholes
- Jet Cleaning 2017: 275miles
- Sewer TV 2017: 17 miles
- MH inspect 2017: 739
- Taps 2017: 334
- Locates 2017: 9,417
- SSOs 2017: 16

Wastewater Collection

- Collection System Master Plan proceeding
- Maple Ave sanitary sewer I & I investigation still in progress
- Sanitary Sewer Overflows are down so far in 2018 with 5 public & 1 private ytd.

Treatment

2017 Operating Statistics

- 2,844,640,000 gallons treated
 - 7.79 Million Gallons per day
- Averaged 95.02% ammonia removal
- Averaged 96.32% T.S. S. removal
- Averaged 96.52% B.O.D. removal
- 913.5 D.M.T. of biosolids sent to the Land fill and MRF. (1006.96 short tons)
- 3 plant violations of E. Coli bacteria last year.

Wastewater Treatment

- Plant performance is solid in 2018.
- Sampling confirms high E.Coli levels are present in Rapid Creek above the plant.
- First major facilities plan project due to kick off in 2019. (Additional clarifier)



Environmental Programs

2017 Statistics

- Inspections of Significant and Categorical users 35
- Inspections of minor commercial interceptors: 994
- Conducted 19,363 tests with 48,992 measurements and calculations.



Environmental Programs

- Updated the Fats / Oils / Grease interceptor program
- Researching high Selenium levels
- Examining Local Limits
- Conducting studies of facility performance related to future process upgrades.

Storm Water Operations statistics

Parameter	
Storm Sewer jetting (Linear feet)	35,161
Storm Sewer televising (Linear feet)	37,550
Drainage Ditch Cleaned (Square feet)	382,274
Improved Channel Cleaned (Square feet)	771,301
Retention Ponds Cleaned	2
Catch Basins Cleaned	361
Complaints Responded to (Private drainage)	10
Complaints Responded to (Public drainage)	83

Rapid City Storm Water Utility

Repairing Drainage

MOWING GRASS!



Repairing
Drainage



QUESTIONS

