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: 275 miles
- Sewer TV 2017: 17 miles
- MH inspect 2017: 739
- Taps 2017: 334
- Locates 2017: 9,417
- SSOs 2017: 16

2017 Data
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm Sewer jetting (Linear feet)</td>
<td>35,161</td>
</tr>
<tr>
<td>Storm Sewer televising (Linear feet)</td>
<td>37,550</td>
</tr>
<tr>
<td>Drainage Ditch Cleaned (Square feet)</td>
<td>382,274</td>
</tr>
<tr>
<td>Improved Channel Cleaned (Square feet)</td>
<td>771,301</td>
</tr>
<tr>
<td>Retention Ponds Cleaned</td>
<td>2</td>
</tr>
<tr>
<td>Catch Basins Cleaned</td>
<td>361</td>
</tr>
<tr>
<td>Complaints Responded to (Private drainage)</td>
<td>10</td>
</tr>
<tr>
<td>Complaints Responded to (Public drainage)</td>
<td>83</td>
</tr>
</tbody>
</table>
Rapid City Storm Water Utility

MOWING GRASS!

Repairing Drainage
QUESTIONS