What does MCES do?

- Protect public health and the environment through reliable and effective wastewater conveyance and treatment.
- Foster economic growth in the region by maintaining low service rates through efficient operations and smart planning.
- Collaboratively engage with our customers, stakeholders and partners to provide excellent wastewater conveyance and treatment services.

Who is MCES?

OUR CUSTOMERS
- 110 communities in the 7 country Metro Area
- 2.6 million population served
- 250 million gallons per day (mgd) of wastewater conveyed and treated

OUR ORGANIZATION
- 600+ employees
- $7 billion in valued assets

Our wastewater infrastructure

- 8 wastewater treatment plants
- 610 miles of conveyance pipe and associated pump stations, meter stations, and rain gauges.

MCES Central Office
390 Robert St. N.
St. Paul, MN 55101
651.602.1000
metro council.org

What is wastewater?

Water discharged from residences and businesses after uses such as washing, flushing, cooking and processing.

Our treatment process removes pollutants and returns clean water to the environment.

<table>
<thead>
<tr>
<th>TREATMENT PLANT</th>
<th>POPULATION SERVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metro (175 mgd)</td>
<td>1,800,000</td>
</tr>
<tr>
<td>Blue Lake (26 mgd)</td>
<td>300,000</td>
</tr>
<tr>
<td>Seneca (24 mgd)</td>
<td>150,000</td>
</tr>
<tr>
<td>Empire (10 mgd)</td>
<td>130,000</td>
</tr>
<tr>
<td>Eagle’s Point (5 mgd)</td>
<td>70,000</td>
</tr>
<tr>
<td>St. Croix Valley (3 mgd)</td>
<td>30,000</td>
</tr>
<tr>
<td>Hastings (2 mgd)</td>
<td>25,000</td>
</tr>
<tr>
<td>East Bethel (&lt;1 mgd)</td>
<td>&lt;10,000</td>
</tr>
</tbody>
</table>

*mgd = million gallons per day*
How does MCES select our wastewater treatment plant projects?

CUSTOMER LEVEL OF SERVICE

Customer Service
- Minimize odor, traffic, noise and visual impact
- Coordinate work with other governmental units
- Meet capacity needs

Health, Safety, & Environment
- Preserve environmental resources for future generations
- Comply with environmental regulations
- Convey and treat wastewater safely with minimum backups, spills, and traffic impacts

Financial Responsibility
- Responsibly manage wastewater infrastructure
- Optimize operations to save costs
- Maintain fair, equitable, and transparent service fees

PERFORMANCE

MCES monitors performance and implements improvements necessary to maintain efficient and effective treatment.

WATER CONSERVATION

MCES conserves water by reusing over 17 million gallons of treated wastewater per day for cooling and other operational needs - enough water to supply 94,000 homes.

MCES used 27% less energy at treatment plants in 2016 than in 1998.

303 billion BTU/year
Heat & electricity for 2,475 households/year

MCES practices energy conservation and recovery by generating significant portions of our electricity and heat from solids collected at the treatment plants and using high efficiency equipment and lighting at our facilities.

RESOURCE RECOVERY

MCES seeks to beneficially use nutrients contained in wastewater solids.

- Biosolids processed at the Blue Lake Plant contain nitrogen and phosphorous and are used to make commercial fertilizer pellets (distributed by New England Fertilizer Co.)
- Biosolids processed at the Empire Plant contain nitrogen, phosphorus, and carbon and are used as an agricultural soil amendment (land-applied by MCES).

PHYSICAL CONDITION

MCES performs condition assessments to determine when it is the right time to replace infrastructure and equipment.

MCES conserves water by reusing over 17 million gallons of treated wastewater per day for cooling and other operational needs - enough water to supply 94,000 homes.