

Industrial Waste & Pollution Prevention Section Information

The Industrial Waste & Pollution Prevention (IWPP) Section regulates and monitors industrial discharges to the sewer system to ensure compliance with local and federal regulations. The IWPP Section also responds to sewer-related spills and community sewer problems. These functions protect MCES and community collection/treatment facilities, process efficiency, operating personnel, and the environment.

IWPP Section staff issue Industrial Discharge Permits to industrial users of the Metropolitan Disposal System (public sanitary sewers). Permittees are required to conduct self-monitoring of their wastewater discharge and submit reports to the IWPP Section on a routine basis. These reports are one means of determining compliance with the MCES Waste Discharge Rules. Compliance determinations are also made through monitoring by the IWPP Section. The samples obtained are analyzed by the MCES Laboratory Services Section.

2019 Permit Information (as of 3/18/2019):

895	Permitted Industrial Users
224	Significant Industrial Users (SIUs)
7	Non-Significant Categorical Industrial Users (NSCIUs)
212	SIUs subject to Categorical Pretreatment Standards
87	Liquid Waste Haulers
98	Groundwater and Leachate Discharge permits
198	General Industrial Discharge permits

2018 Compliance/Enforcement Activities (as of 3/18/2019):

1614	Routine self-monitoring reports received
63	Notices of Violation (NOVs) issued to 57 different users
1	Industrial User listed in a public notice for Significant Non-Compliance
1	Industrial User on Stipulation Agreement
2	Orders to Appear issued

MCES INDUSTRIAL WASTE RATES AND FEES



MCES protects public health and the environment

Metropolitan Council Environmental Services (MCES) operates the Metropolitan Disposal System (regional wastewater collection and treatment system), serving 109 communities, 2.6 million people, and approximately 860 regulated industrial dischargers in the seven-county metro area. The system includes:

- More than 600 miles of regional interceptor sewers that collect wastewater from more than 5,000 miles of locally owned sewers.
- 8 regional wastewater treatment plants.
- 61 lift stations to pump the wastewater as needed.
- 206 metering stations to measure wastewater flow.

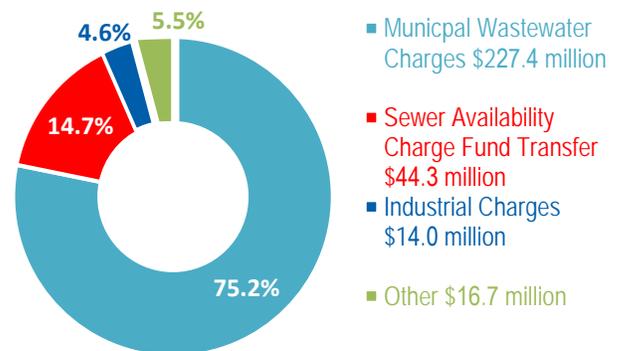
What is the role of MCES's Industrial Waste and Pollution Prevention Section?

We regulate and monitor industrial dischargers to the Metropolitan Disposal System to ensure compliance with local and federal regulations. We also respond to sanitary sewer-related spills and community sewer problems. Our work protects MCES and community wastewater collection and treatment facilities, process efficiency, operating personnel, and the environment.

Industrial Waste rates and fees

MCES sets rates and fees to cover our regulatory and monitoring costs and the operation and maintenance costs attributed to industrial discharges to the system. We anticipate that industrial charges will account for approximately \$14.0 million (4.6%) of our 2019 total revenue. The 2019 strength charge rates will reflect the increase in our costs from 2018 to 2019, along with the sixth year of a eight-year phase-in of debt service costs for MCES capital improvements attributed to industrial discharges.

MCES Wastewater Revenue, 2019



2019 (Current) Rates

Strength Charge (on-site connection, per pound of excess TSS):	\$0.243
Strength Charge (on-site connection, per pound of excess COD):	\$0.1215
Industrial Load Charge (permitted waste hauler, per pound of excess TSS):	\$0.413*
Industrial Load Charge (permitted waste hauler, per pound of excess COD):	\$0.2065*
Standard (septage) Load Charge (per 1,000 gallons):	\$60.24
Portable Toilet Waste Load Charge (per 1,000 gallons):	\$77.46
Holding Tank Load Charge (per 1,000 gallons):	\$11.10
Collar County (septage) Load Charge (per 1,000 gallons):	\$75.24
Production-Based Strength Charge:	\$0.762
(Microbrewery/Brewpub general permits, per barrel of beer produced)	
Sewer Availability Charge (SAC) (per unit):	\$2,485
Temporary Capacity Charge (per 1,000 gallons):	\$1.25
Industrial Capacity Charge (per 1,000 gallons):	\$2.10

* Plus \$15 per 1,000 gallons for out-of-region haulers.

2019 (Current) Permit Fees

Standard Permit Fees

(SIU = Significant Industrial User; NSCIU = Non-Significant Categorical Industrial User; MGY=Million Gallons per Year)

Quarterly Reporter

SIU > 50 MGY	\$10,000
SIU < 50 MGY	\$8,350

Semi-Annual Reporter

SIU >10 MGY	\$6,625
SIU 5-10 MGY	\$5,025
SIU 2-5 MGY	\$3,275
SIU < 2 MGY	\$1,675
Non-SIU	\$1,675

Annual Reporter

Non-SIU > 1 MGY	\$1,675
Non-SIU < 1 MGY	\$1,025
NSCIU	\$1,025
General	\$475

Liquid Waste Hauler Permit Fees

> 1 MGY	\$1,675
< 1 MGY	\$1,025

Special Discharge Permit Fees

Quarterly Reporter	\$1,675
Contingency/Low Impact	\$1,075

Special Short-Term Request Fees

In Region	\$150
Out of Region	\$300

What is influencing MCES's budget and annual increases?

Our biggest budget driver is debt service, which accounts for 46% of the budget. We continue to pay off bonds that financed wastewater system upgrades and capacity improvements over the last 20 years. Moving forward, we will invest approximately 90% of the current capital improvement program in asset preservation, primarily to address aging infrastructure in the wastewater collection system and the treatment plants.

We take a comprehensive approach to evaluate the condition of the system, and a purposeful, rational plan over multiple years to rehabilitate or replace the most deteriorated facilities first. This long-range planning is aimed at maintaining consistent and predictable wastewater rates, so communities and industrial dischargers can plan for their share of costs. While debt service, labor, and operation and maintenance costs continue putting pressure on the budget, MCES remains a national model among large regional wastewater systems. Our rates are well below the national average for agencies that treat more than 100 million gallons per day.

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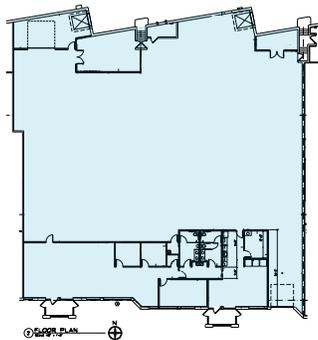


PROPOSED NEW OPTION for paying SAC

Based on feedback from our industrial wastewater customers in 2017, the Metropolitan Council is proposing a major change to how the Sewer Availability Charge (SAC) is determined and implemented for permitted industries.

HOW SAC IS implemented now

Currently, your industry is assessed a one-time commercial SAC based on the size and type of your facility, plus an industrial SAC based on your expected maximum process discharge. Each time you renew your industrial discharge permit, we evaluate the actual average discharge volumes from your business. If the flows exceed your SAC baseline, you owe more SAC.



Commercial SAC
Size & Type of Facility

plus



Industrial SAC
Maximum Discharge

CHANGING the industrial SAC

We propose to eliminate SAC reviews when permits are renewed. Instead, you will pay an industrial capacity charge (ICC) directly to the Council after you submit your regular self-monitoring report—either quarterly, half-yearly or annually. You will be charged for each 1,000 gallons of discharge above your SAC baseline. In 2019 the ICC will be \$2.10 for each 1,000 gallons of discharge over your total baseline (commercial and process combined).



Up-front Industrial Charge

or



Ongoing Charge

In lieu of the ongoing charge, your business may buy your industrial SAC units outright at any time, from your community, to lower your ongoing ICC costs.



CHANGE benefits industrial customers

- You can reduce your up-front costs while your business gets established.
- Your ongoing costs will better match the business cycle—when business is good and your process flows are greater, your costs will rise accordingly. In a weaker business cycle when your flows are lower, your costs will be lower.
- Your permit renewal will not include any SAC payments.
- Water conservation efforts will reduce capacity charges as well as volume charges.



For more information

Contact Nanette Ewald at 651.602.4767 or email Nanette.Ewald@metc.state.mn.us.

Metropolitan Council Environmental Services
390 Robert Street North
Saint Paul, MN 55101-1805
metro council.org



INDUSTRIAL PROCESS WASTE APPROVAL PROCEDURE

Does your facility have industrial process waste that is hauled off-site for discharge at an MCES disposal site?

If so, all hauled loads of industrial process waste need to be sampled and approved prior to transport. If you do not have a current Discharge Approval letter, please follow this procedure:

1. Contact your Permit Engineer and complete an Industrial Discharge Approval Request form.
(Request a form from your Permit Engineer. The form is also available at <https://metro council.org/Wastewater-Water/Services/Industrial-Waste/Standard-Industrial-Discharge-Permits/Industrial-Waste-Forms.aspx>)
2. Submit completed form to your Permit Engineer.
3. Collect sample according to your Permit Engineer's instructions.
4. Submit analytical results to Permit Engineer for review and approval.
5. If approved, Permit Engineer will issue a Discharge Approval letter authorizing transport of the approved load to an MCES disposal site.

***** ALL APPROVED LOADS MUST BE TRANSPORTED BY A PERMITTED
MCES LIQUID WASTE HAULER.**



Welcome to the MCES Industrial Online Reporting System

****As of February 1, 2019, all facilities must submit their self-monitoring reports and permit renewal applications to MCES using the MCES Industrial Online Reporting System.***

The MCES Industrial Online Reporting System (IORS) offers the convenience of submitting paper self-monitoring reports and permit renewal applications to Industrial Waste & Pollution Prevention staff in our online system. Online Reporting is fast, efficient and convenient, and is less burdensome for everyone. Our system complies with EPA guidelines established in its electronic reporting rule, CROMERR (Cross-Media Electronic Reporting Rule). Specifically, our system offers the following functionality:

- Easily manage your upcoming submittal obligations in a dashboard
- Submitting permit renewal applications
- Submitting Reporting Period Information and Sampling Results SMRs
- Submitting Liquid Waste Hauler SMRs
- Submitting Annual Statements for the Dental Amalgam Recovery Program
- Monitoring the status of your online submittals
- Receiving e-mail notifications regarding the acceptance status of your online submittals
- Tracking historical versions of all online submittals

How Do I Enroll?

Facilities holding an MCES Standard, General or Special Discharge Permit and Dental Clinics participating in the Amalgam Recovery Program can enroll in Online Reporting. Follow these steps to enroll:

1. Create a user account using the Account Registration Instructions
2. Complete the Facility Account Registration Form
3. Sign the Electronic Signature Agreement by all Responsible Officials and mail completed form to MCES: 455 Etna Street North, Suite 27, St. Paul, MN 55106

Customer Assistance is Available

For more information on the Industrial Waste & Pollution Prevention Section, or to access training documents and videos, please visit our website:

<http://www.metrocouncil.org/Wastewater-Water/Services/Industrial-Waste.aspx>

Please contact our support team if you have questions regarding Online Reporting. Our support team is available Monday through Friday, 8 AM – 4 PM.

Email: MCESIndustrialOnlineReporting@metc.state.mn.us
Phone: (651) 602-4789



MCES Industrial Waste and Pollution Prevention Program Contacts

Program / Issue	Contact	Telephone Number
Spill Emergency	MN State Duty Officer	651-649-5451
Short-term Industrial Discharge Request <i>new requests <12 months</i>	Tim Rothstein tim.rothstein@metc.state.mn.us	651-602-4724
Long-term Industrial Discharge Request <i>new request >12 months</i>	Michael Flaherty michael.flaherty@metc.state.mn.us	651-602-4715
Industrial Discharge Permit Requests <i>General information for new permits</i>	Cynthia O'Sell cynthia.osell@metc.state.mn.us	651-602-4718
Groundwater and Leachate Discharges	Michael Flaherty michael.flaherty@metc.state.mn.us	651-602-4715
Liquid Waste Haulers	Laura Engen laura.engen@metc.state.mn.us	651-602-4712
Industrial Sewer Availability Charge (SAC) Industrial Capacity Charge (ICC)	Nanette Ewald nanette.ewald@metc.state.mn.us	651-602-4767
Enforcement Issues	Peter Sandberg peter.sandberg@metc.state.mn.us	651-602-4707
Online Reporting	IORS Support Team mc industrialonline reporting@metc.state.mn.us	651-602-4789
Data Requests	Tina M. Nelson martina.nelson@metc.state.mn.us	651-602-4728
IWPP General Information	Brittney McDonough brittney.mcdonough@metc.state.mn.us	651-602-4703
IWPP General Email Address	iwpp@metc.state.mn.us	
IWPP Fax Number		651-602-4730

Industrial Waste and Pollution Prevention Staff

Function	Staff / E-mail Address	Telephone Number
Manager	Bob Nordquist bob.nordquist@metc.state.mn.us	651-602-4706
Assistant Manager – Data Management and Revenue	Tina Nelson martina.nelson@metc.state.mn.us	651-602-4728
Assistant Manager – Field Monitoring and Response Actions	Robert Golden robert.golden@metc.state.mn.us	651-602-4705
Compliance Officer	Peter Sandberg peter.sandberg@metc.state.mn.us	651-602-4707
Administrative Specialist	Brittney McDonough brittney.mcdonough@metc.state.mn.us	651-602-4703

Function	Staff / E-mail Address	Telephone Number
Data Management and SAC/ICC	Nanette Ewald nanette.ewald@metc.state.mn.us	651-602-4767
Data Management	Cynthia O'Sell cynthia.osell@metc.state.mn.us	651-602-4718
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Permit Engineers	Peter Berglund peter.berglund@metc.state.mn.us	651-602-4708
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	Tim Rothstein tim.rothstein@metc.state.mn.us	651-602-4724
	Therez Ranta therez.ranta@metc.state.mn.us	651-602-4719
	Daniel Russow daniel.russow@metc.state.mn.us	651-602-4720
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Wastewater Monitoring	Nickolas Alverson nickolas.alverson@metc.state.mn.us	651-602-4762
	Derrick Erie derrick.erie@metc.state.mn.us	651-602-4760
	Norm Hart norm.hart@metc.state.mn.us	651-602-4770

Function	Staff / E-mail Address	Telephone Number
Wastewater Monitoring cont'd	Maggie Lundell maggie.lundell@metc.state.mn.us	651-602-4769
	Angie Peterson angie.peterson@metc.state.mn.us	651-602-4764
	Ann Postera ann.postera@metc.state.mn.us	651-602-4765
	Kevin Rogers kevin.rogers@metc.state.mn.us	651-602-4763
	Paul Vanlith paul.vanlith@metc.state.mn.us	651-602-4768

ENVIRONMENTAL SERVICES FACTS



A national leader in environmental protection

Clean water and a clean environment are essential to a healthy life, and the Metropolitan Council is committed to both. Our Environmental Services division is nationally renowned for its superior work treating wastewater, monitoring water and air quality, and planning to ensure a long-range water supply to meet future demand.

We consistently achieve outstanding compliance with federal and state clean water discharge standards. At the same time, our rates are 41% below the national average for large agencies that treat more than 100 million gallons of wastewater per day.

We lead on sustainability. In the last decade, our efforts to conserve and recover energy have yielded an annual savings of more than \$3.5 million for our customers.

Council protects water quality, public health

The Council collects and treats wastewater from 2.7 million residents in the seven-county Twin Cities area. We also conduct research related to surface water quality and water supply, and provide technical assistance to local governments. Among our primary responsibilities:

- Maintain 610 miles of regional interceptor sewers that collect flow from more than 5,000 miles of local sewers owned by 109 communities.
- Process an average of 250 million gallons of wastewater daily at 8 regional treatment plants.
- Work with about 850 industrial clients to substantially reduce the amount of pollution entering the wastewater system.
- Provide surface water quality monitoring and analysis for the region.
- Conduct research and develop policies and plans related to the region's water supply.
- Partner with numerous public, private and nonprofit groups committed to a clean environment.

Council supports regional growth

Our wastewater treatment services protect public health and the environment while supporting regional growth. Guided by the regional long-range plan, *Thrive MSP 2040*, we ensure that:

- Sufficient sewer capacity exists to serve planned development.
- Sufficient capital investments are made to preserve water quality in the region.
- Wastewater collection and treatment is competitive for cost and quality.
- Local plans provide for adequate water supply and prevention of pollution from nonpoint sources, such as urban and agricultural stormwater runoff.

MCES maintains outstanding environmental record

The Council's wastewater treatment plants continue to perform at a high level, achieving outstanding compliance with federal and state clean water discharge permits. Two plants—Hastings and St. Croix Valley—are among the top eight plants in the country for consecutive years of full compliance with their permits (28 and 27 years, respectively).

Service is responsive

We work with and for citizens in a number of ways, including partnering on environmental improvement efforts and addressing process-related and industrial odor-control issues. We also reach out to the public with educational programs, public meetings, forums, surveys, and newsletters.

Council coordinates water supply planning

Under state law, the Council carries out planning activities that address the water supply needs of the seven-county metro area. The law requires the Council to maintain a base of technical information to assist local governments to make sound decisions about water supply issues, and to develop a regional master plan for water supply.

After years of study and regional input, and with assistance from state and local officials on the Metropolitan Area Water Supply Advisory Committee, the Council developed a *Master Water Supply Plan*. The plan emphasizes conservation, inter-jurisdictional cooperation and long-term sustainability. The Council last updated the plan in September 2015.

Council monitors regional water quality

Environmental Services implements a variety of strategies to meet its mission of “providing wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.” We monitor and analyze the water quality of the region’s lakes and rivers; partner with public, private and nonprofit groups to improve water quality; and assist with watershed planning and management.

The division’s work is guided by the *2040 Water Resources Policy Plan*, a chapter of the Metropolitan Development Guide (of which *Thrive MSP 2040* is the foundation). The updated policy plan embraces an integrated approach to water supply, water quality, and wastewater treatment; it also emphasizes collaboration with local government, state, and other partners.

Long-range plans include significant energy savings

Environmental Services implements an ongoing capital improvement program to maintain and improve the region’s wastewater infrastructure, support regional growth, and meet regulatory requirements. The 2019 capital budget is \$156 million. The budget supports projects at the eight treatment plants as well as numerous interceptor, lift station, and meter station construction and rehabilitation projects.

We are reducing energy consumption at our facilities. In the last decade, our efforts to conserve and recover energy have yielded an annual savings of more than \$3.5 million for our customers. By 2020, we anticipate reducing our energy purchases by another \$1 million annually. We also have more than 17 megawatts of solar energy under contract. In 2018, we began a new partnership with Xcel Energy to make all of our electricity purchases 100% renewable by 2040.

For more information

Visit www.metrocouncil.org/Wastewater-Water or call 651-602-1000.

MCES consistently achieves outstanding compliance with federal and state clean water discharge standards.



WASTEWATER TREATMENT PLANTS

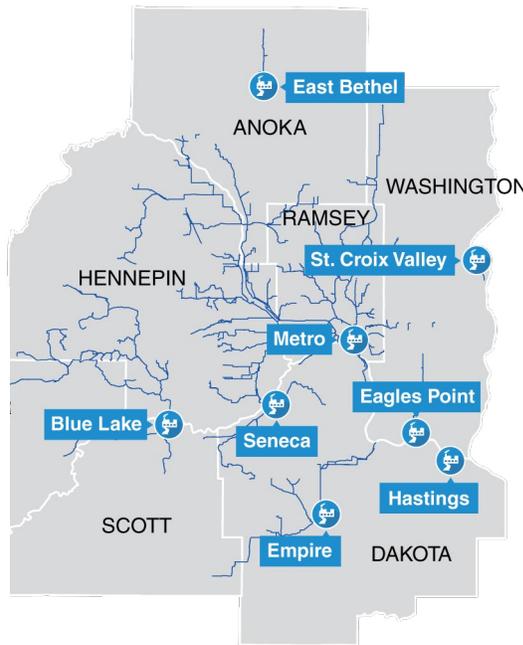
What does MCES do?

- 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.

Our wastewater infrastructure

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

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



TREATMENT PLANT	POPULATION SERVED	mgd = million gallons per day
Metro (175 mgd)	1,800,000	
Blue Lake (26 mgd)	300,000	
Seneca (24 mgd)	150,000	
Empire (10 mgd)	130,000	
Eagle's Point (5 mgd)	70,000	
St. Croix Valley (3 mgd)	30,000	
Hastings (2 mgd)	25,000	
East Bethel (<1 mgd)	<10,000	

Who is MCES?

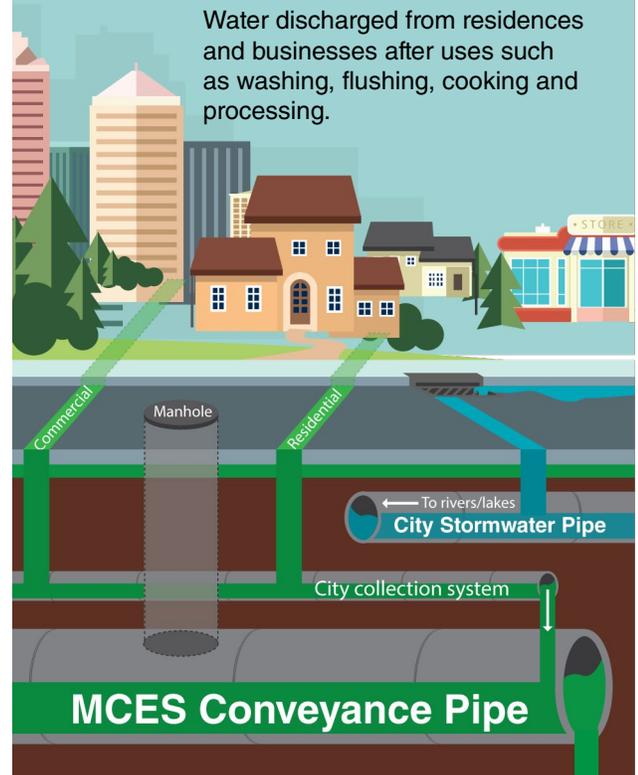
OUR CUSTOMERS

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

What is wastewater?



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

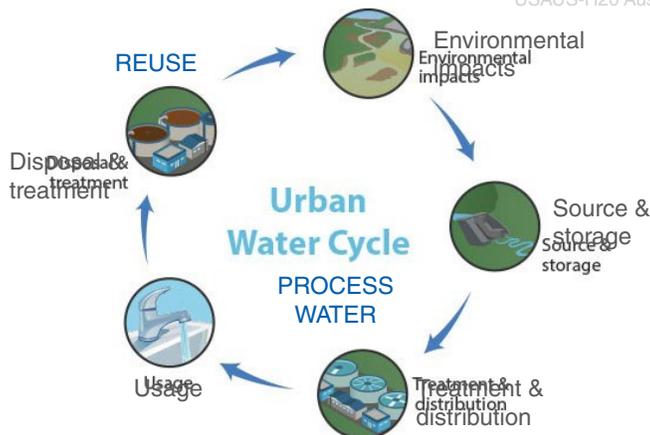
PERFORMANCE



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

WATER CONSERVATION

USAUS-H2O Australia



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.



PHYSICAL CONDITION



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



ENERGY CONSERVATION

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).