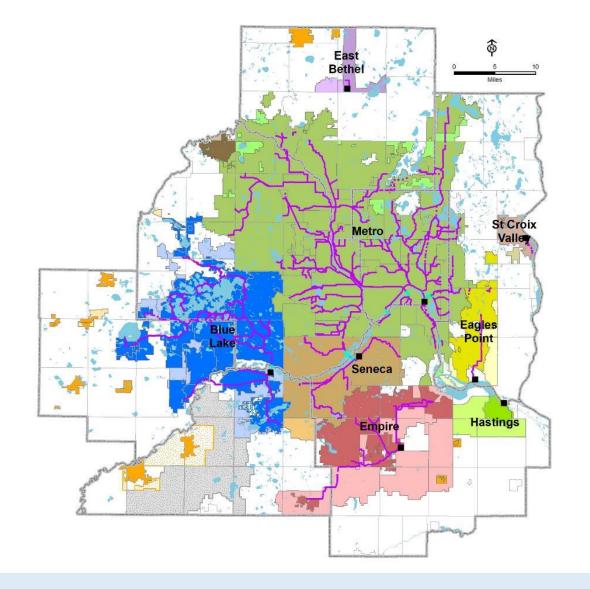
# Metropolitan Council Inflow & Infiltration Mitigation Program



Jeannine Clancy Assistant General Manager, Wastewater Planning & Capital Project Delivery, Metropolitan Council Environmental Services

> Kyle Colvin Manager, Wastewater Planning & Community Programs, Metropolitan Council Environmental Services

# MCES Wastewater System



#### **MCES Serves ~50% of the State's Population**







Protects public health and safety

Protects the environment

Fosters the economic growth of the region

#### WHO WE SERVE

7-county Twin Cities Metro Area110 communities2,700,000+ people

#### **OUR FACILITIES**

9 wastewater treatment plants640 miles of interceptors250 million gallons per day (avg.)

#### **OUR ORGANIZATION**

600+ employees\$7 billion in valued assets\$150 million / yr capital program

# Regional and Local Wastewater Systems



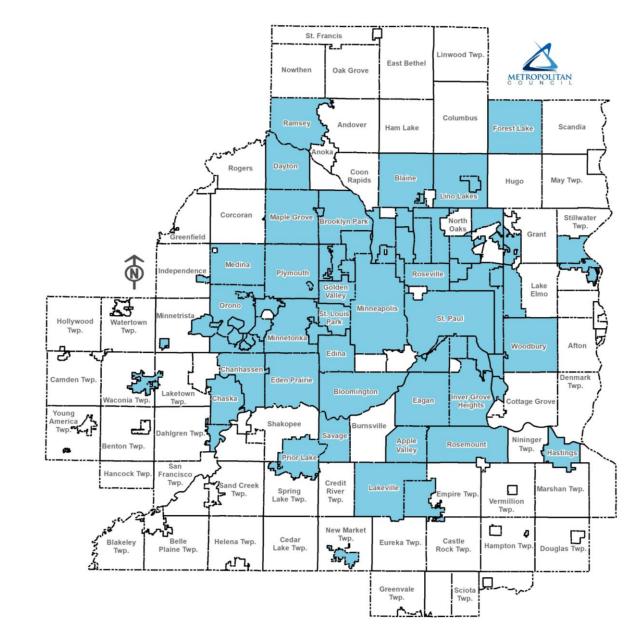
# Communities Impacted By I/I

### 81 Communities:

Apple Valley Arden Hills Bayport Birchwood Blaine Bloomington **Brooklyn Center Brooklyn Park** Carver Centerville Chanhassen Chaska Columbia Heights Crystal Davton Deephaven Eagan Eden Prairie Edina Elko-New Market Excelsior Farmington Forest Lake Fridlev Golden Valley Greenwood Hastings

Hopkins **Inver Grove Heights** Lakeville Lauderdale Lexington Lilvdale Lino Lakes Little Canada Long Lake Mahtomedi Maple Grove Maple Plain Maplewood Medicine Lake Medina Mendota Mendota Heights Minneapolis Minnetonka Minnetonka Beach Mound Mounds View New Brighton New Hope Newport North St. Paul **Oak Park Heights** 

Oakdale Orono Osseo Plymouth Prior Lake Ramsey Robbinsdale Rosemount Roseville Savage Shoreview Shorewood South St. Paul Spring Park St. Anthony St. Bonifacius St. Louis Park St. Paul St. Paul Park Stillwater Tonka Bay Vadnais Heights Waconia Wayzata West St. Paul White Bear Township Woodbury







## Protect Public Health by

avoiding backup of sewage into basements



## Protect Water Quality by

avoiding spills to lakes and rivers

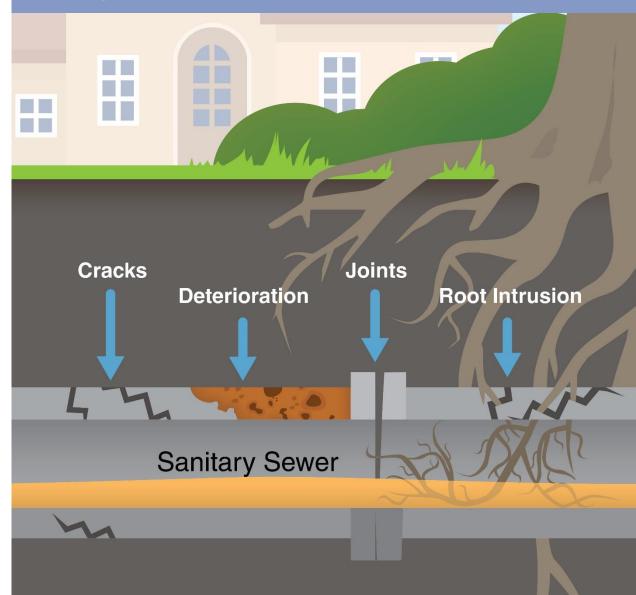


### **Maintain Economic**

Efficiency by avoiding unnecessary expansion of sewers and treatment plants

#### Keep clear water out of the wastewater

Clear water – stormwater and groundwater – through I/I sources enters the wastewater systems. Excessive I/I increases the need to build larger and more expensive sewer pipes and treatment facilities.



**Timeline** 

	$O_{\circ}$		$\sim$				
<b>July</b> 1987 Superstorm	<b>1990</b> System Evaluation	<b>2002</b> Interceptor Master Plan	<b>2002</b> I/I Task Force	<b>2004</b> I/I Program Begins	<b>2009-2010</b> I/I Task Force 2	April-June 2014 Extreme Wet Weather	<b>2016</b> I/I Task Force 3
16" of rainfall over one week in region	~20% of annual flow from I/I	Projected peak flow exceeds capacity with future growth projections	Reaffirms approach to address I/I mitigation at source	55 of communities assigned work plans	Deferred 2013 demand charge	42 of communities exceed I/I goals	Identify need to continue I/I program, develop educational tools and support communities with private property mitigation activities

# Local and Regional Investments to Reduce I/I



### 2004-2018:

Communities invest over \$160M in public local collection system to reduce I/I



2004-2018:

MCES invests over \$100M in interceptor system improvements to reduce I/I



### 2010-2020:

\$24.2M public infrastructure bonds for grants for I/I mitigation

.....

2013:

\$1M Clean Water Legacy Funds for private property I/I mitigation

# Inflow/Infiltration Program Results

### **Key Results:**

- Metropolitan Council has been able to defer capacity improvements, estimated at \$1B, that would have been required had I/I not been addressed
- Regional population has increased by 12% between 2005 and 2019 which has been accommodated within the existing regional collection system, despite increase in annual precipitation.
- Wastewater rates are competitive and are 40% below the national average.



#### Key to public and environmental health, and wastewater affordability.

# Questions

#### **Jeannine Clancy**

Assistant General Manager, Wastewater Planning and Capital Project Delivery Jeannine.Clancy@metc.state.mn.us 651-602-1210

### Kyle Colvin

Manager, Engineering Programs, Wastewater Planning and Capital Project Delivery Kyle.Colvin@metc.state.mn.us 651-602-1151



# Thank you!