

Welcome!

Liquid Waste Hauler
Customer Workshop

April 3, 2024 8:30 AM – 10:00 AM



METROPOLITAN
C O U N C I L

Meeting logistics

Interactive meeting – Please save your questions for the Q/A section breaks

Bathrooms straight behind us, down hallway next to kitchen

Feel free to get up for bathroom or coffee break as needed

Training for liquid waste hauler report with support team members

Presentation will be posted online for later review

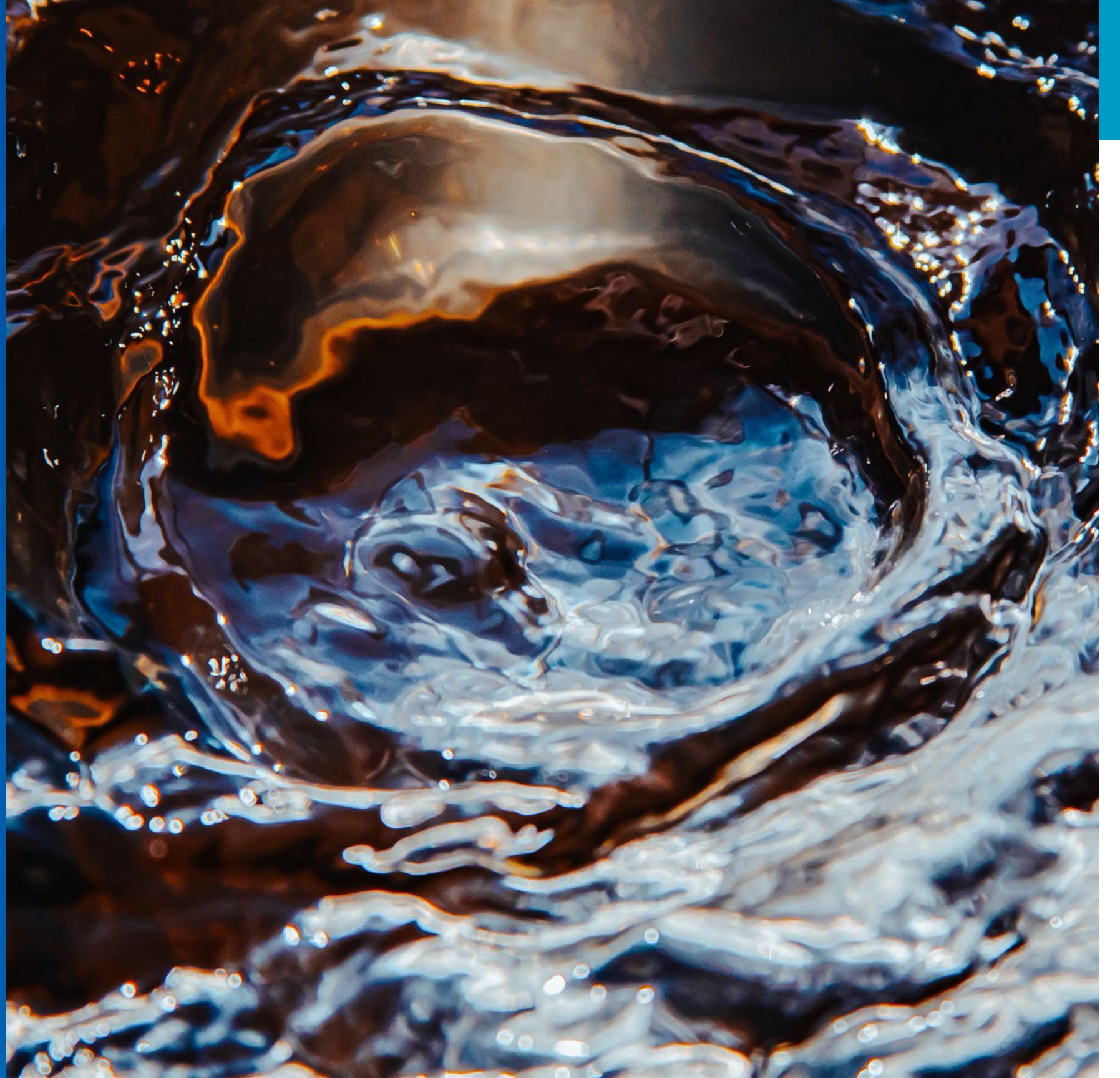
Today's agenda



We'll cover:

1. MCES Pretreatment Program Overview (Tina Nelson)
2. Finance and Budget (Ned Smith)
3. Online Reporting Updates (Nanette Ewald)
4. Permit Overview (Laura Engen)
5. Accepted Liquid Waste Types (Tim Rothstein)
6. Fats, Oils, Grease, and Rags Update (Angie Peterson)
7. Disposal Sites and Updates (Matt Michaelis)
8. Wrap-up and 1:1 IORS Reporting Q/A

Environmental Services Pretreatment Program Overview



Overview

Industrial Waste and Pollution Prevention

2.8M

People served in Twin Cities region

111

Communities connected to our system

953

Active industrial discharge permits administered

- ✓ 516 Standard Discharge Permittees
- ✓ 105 Special Discharge Permittees
- ✓ 88 Liquid Waste Haulers
- ✓ 244 General Discharge Permittees
- ✓ 833 Dental Clinics in the Amalgam Recovery Program

Clean water regulation

Clean Water Act / 40 CFR Part 403

- ✓ Categorical Standards
- ✓ General Pretreatment Regulations

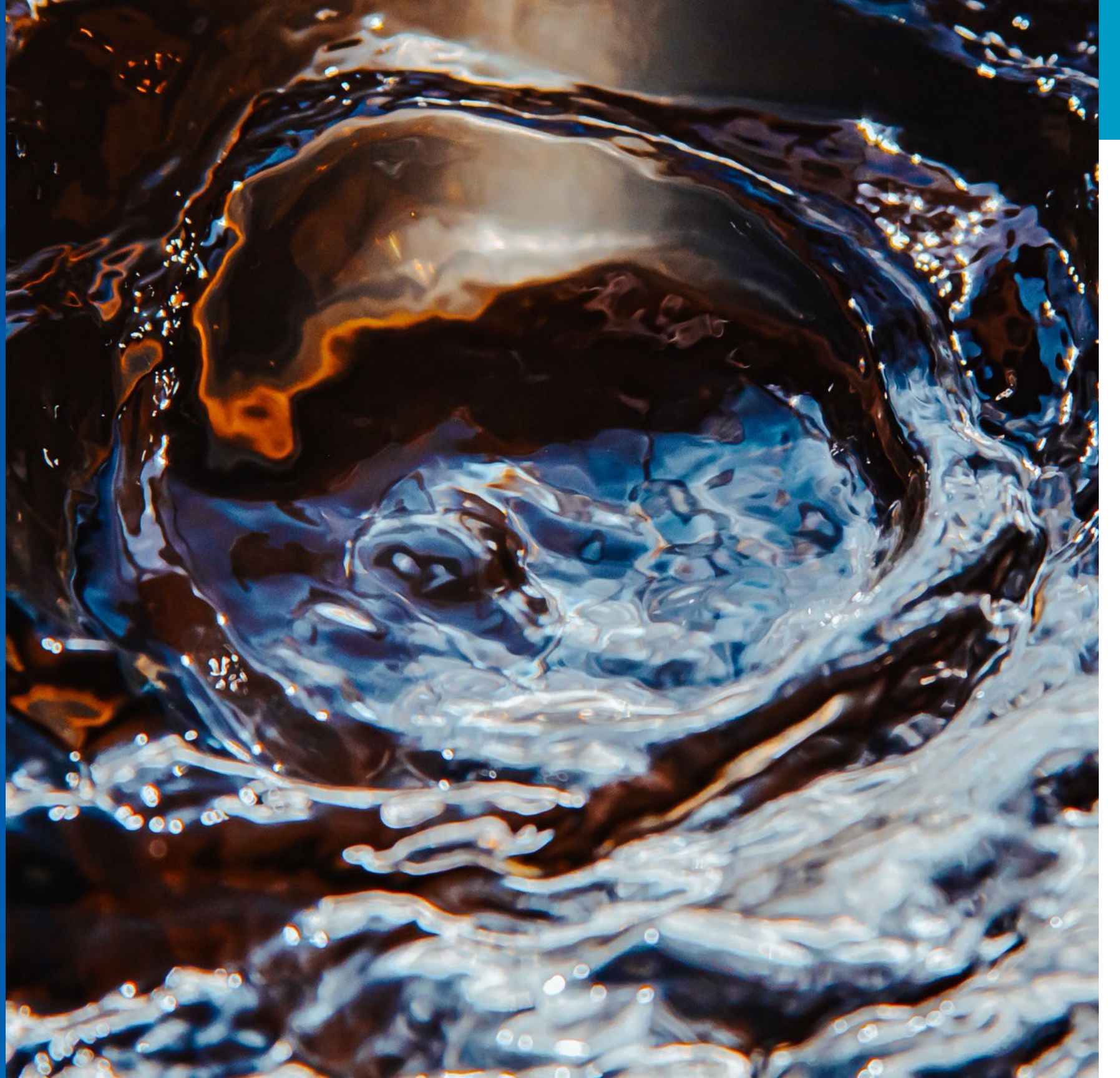
EPA Region 5

- ✓ Delegated to Minnesota PCA
- ✓ Approval of Local Pretreatment Programs

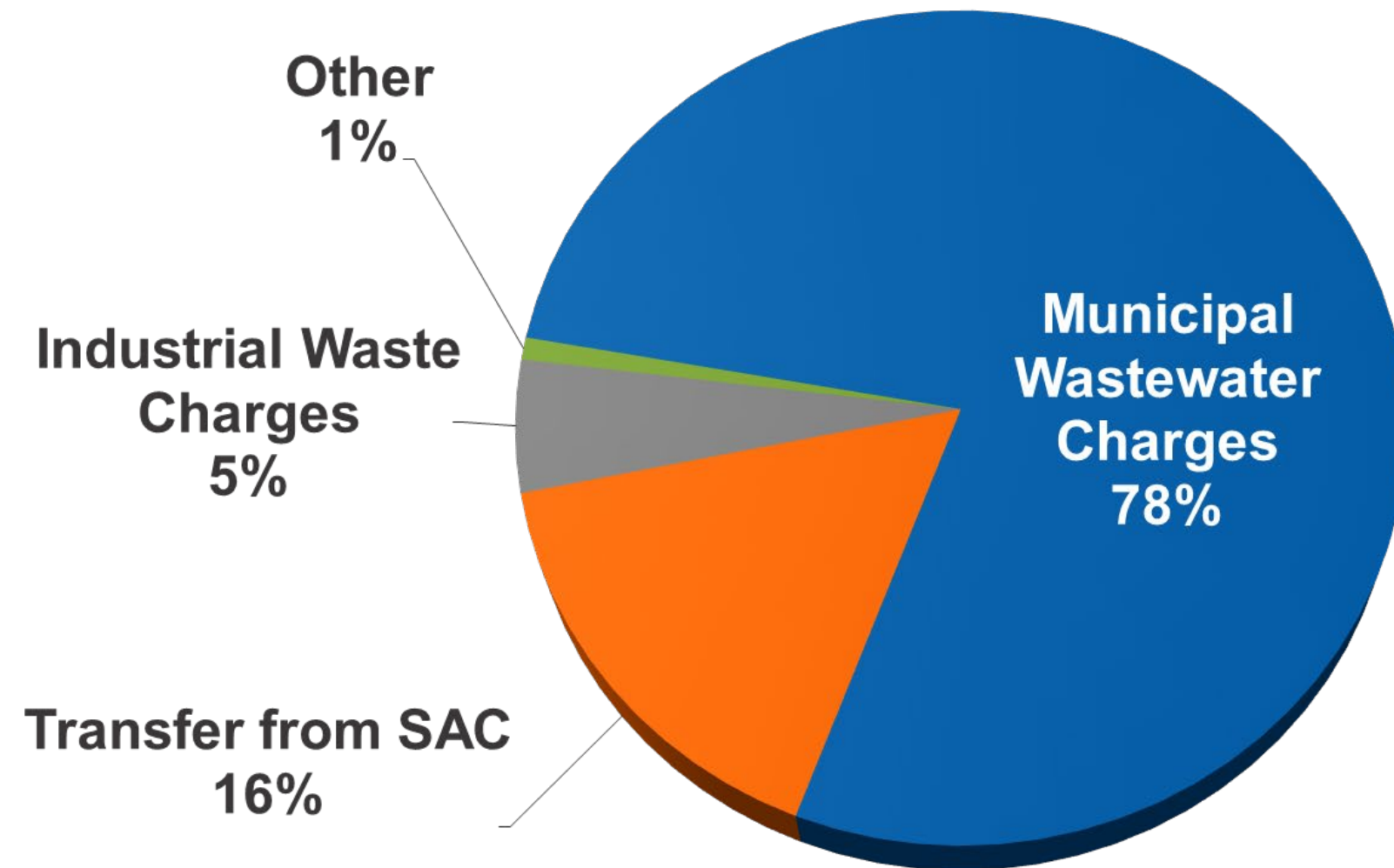
MCES Approved Pretreatment Program

- ✓ Waste Discharge Rules
- ✓ Local Limits

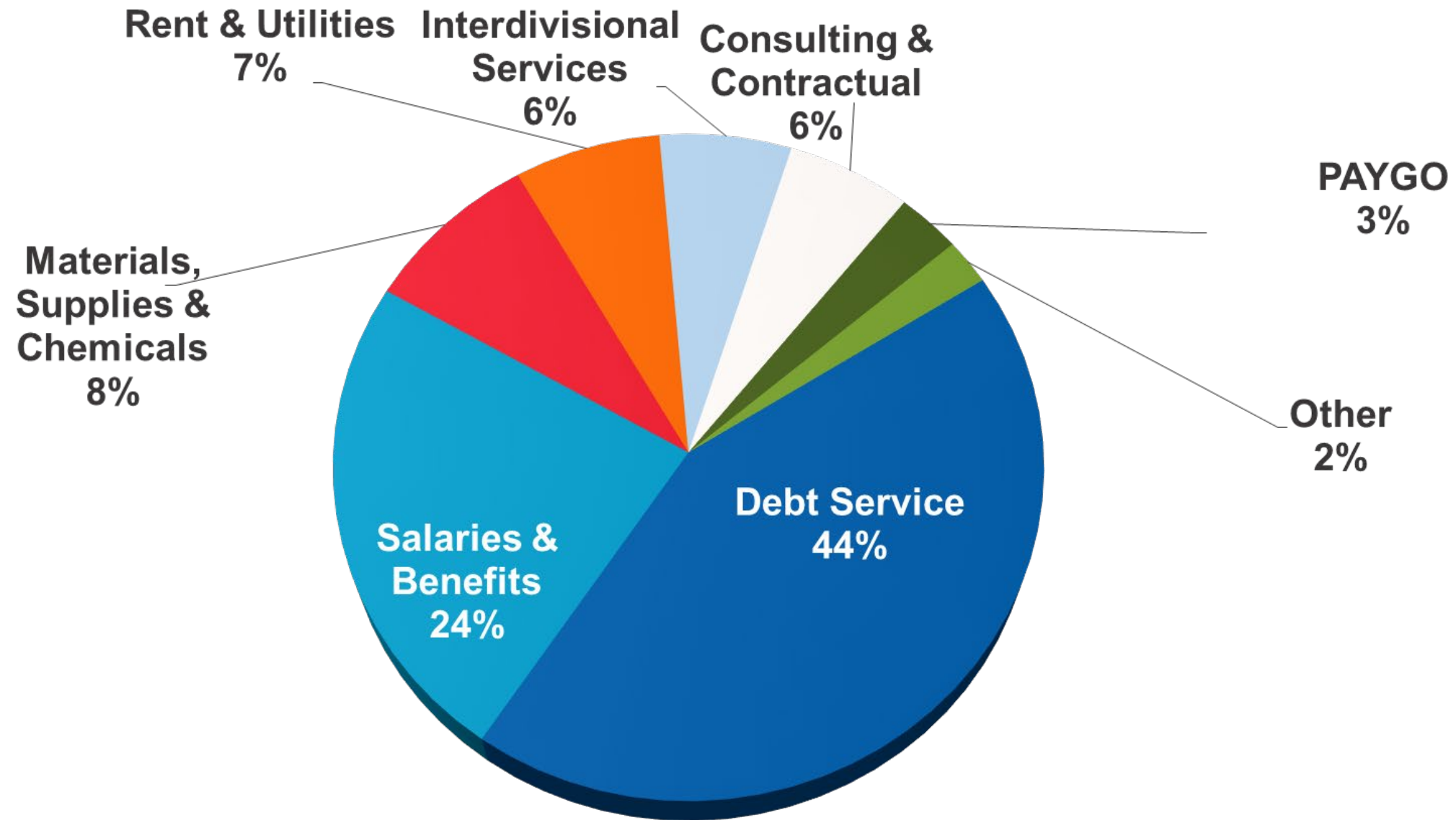
Finance and Budget



2024 revenue sources: \$361M



2024 uses by category: \$361M



Load charge components

1

Strength Component

- Based on methodology similar to the strength charge equation except hauled waste is assumed to have a set strength
 - Collar county (counties adjacent to our 7 county service area) & standard load charge: 10,000 mg/L for both TSS and COD
 - Portable toilet waste: 20,000 mg/L for COD, 10,000 mg/L for TSS

2

Volume Component

- Based on MCES Municipal Wastewater Charge

3

Facilities Component

- Operating, maintenance, and debt service cost for facilities built for receiving hauled liquid waste

2024 hauler charges

Load Charges (per 1,000 gallons) paid by liquid waste haulers for septage, leachate, and other hauled wastes discharged to approved MCES disposal sites.

Charge Type	2024 Rate
Permit Fee	Varies
Standard Load Charge	\$61.60
Holding Tank Rate	\$12.74
Portable Toilet Waste Rate	\$78.45
Collar County Load Charge	\$76.60
Industrial Load Charge**	
• Total Suspended Solids (TSS)	\$0.310
• Chemical Oxygen Demand (COD)	\$0.155

2025 municipal wastewater charge estimated increase of 4% to 6%

Estimated MWC Increase of 4% (\$11.3M) to 6% (\$17M)

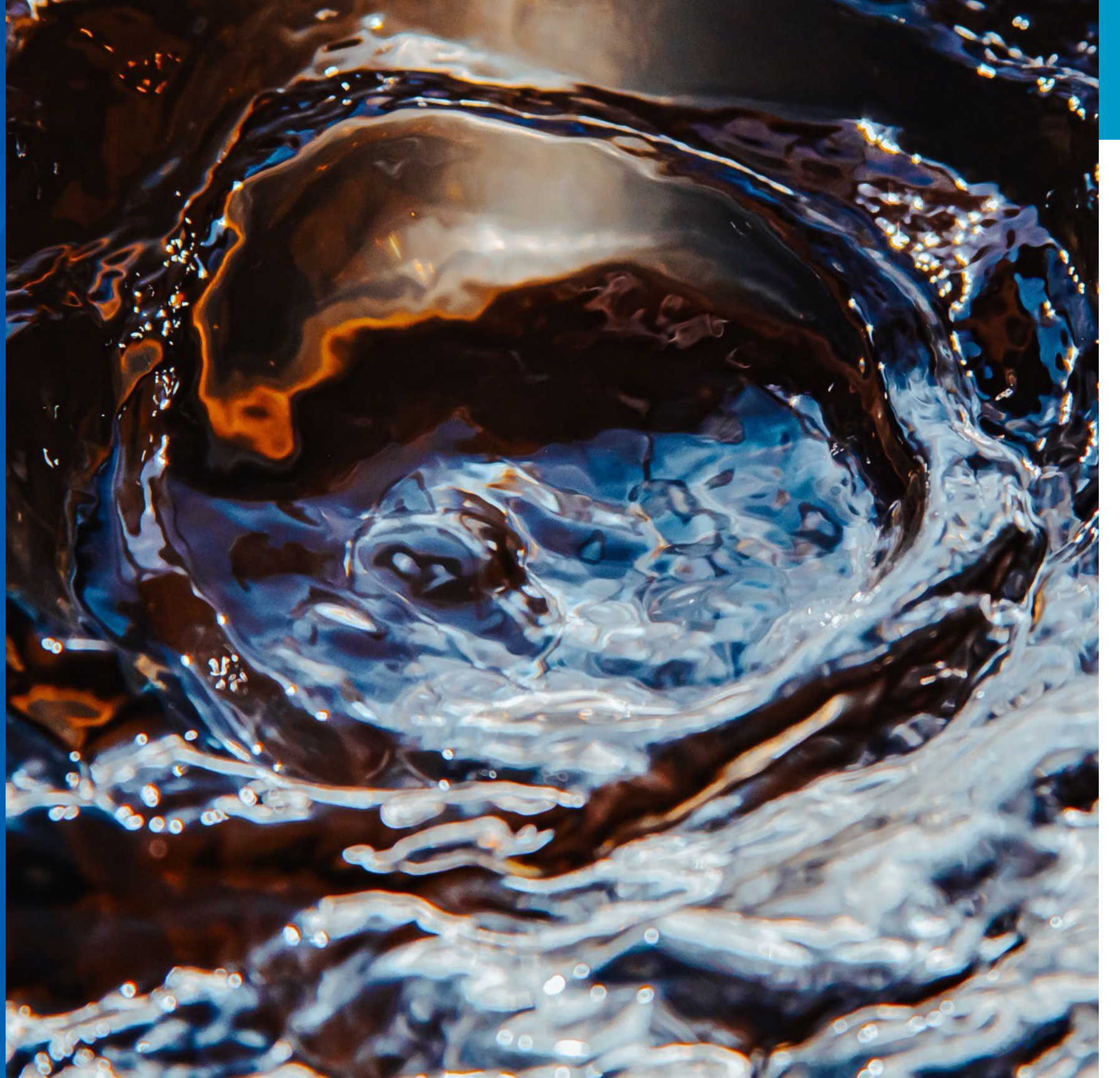
Known Trends:

- Labor inflation accounts for 2.4% (\$6.8M)
- Materials and supplies inflation accounts for .7% (\$2M)
- Chemical Use Savings for -.2%(-\$.5M)

To Be Determined:

- Reduction in reserve use for .7% to 1.8% (\$2M to \$5M)
- Interdivisional/contract services/other at .4% to 1.3% (\$1M to \$3.7M)

Online Reporting Updates



Enhancement to the Liquid Waste Hauler Discharge Report

Liquid Waste Hauler Report rolled out April 1, 2024

- **Load Tracking:**
 - New” LWH Load Tracker”
 - Easy and efficient reporting
 - Quick entry and review of hauled load information
 - Ability to summarize hauled volumes by load type and MCES discharge site
- **Simplified Reporting:**
 - Copy/paste the template data into the form
 - Automatic calculation of the sum of volumes associated with each Disposal Site and Waste Type



LWH load tracker



- New Excel template
- Consolidates information from all applicable Log Sheets (A, A2, B1, B2, C, C2, D, and M) into one convenient tracker
- Drop down boxes allow the user to select the correct Disposal Site, Waste Type, Out of Service Area and Industrial Waste Description, and choose the Landfill Permit number for leachate loads

Date	Split Load	Matrex Transaction Number	Disposal Site	Waste Type	Volume (gallons)	Out of Service Area Description	Address/City/Location	Commercial Business Name	Commercial Waste Description	Name of Industry (Industrial Hauled Loads Only)	Industrial Waste Description	Special Discharge Approval Number	Landfill Permit Number	Failed or Frozen	Load Notes

Copy/Paste feature

Found on the basic information page of the Liquid Waste Hauler Report

Total Volume of Liquid Waste Discharged into the Disposal Systems during the Reporting Period

	Disposal Site	Waste Type	Volume	Unit
 				Gallons

Add New Record

(Show/Hide Copy and Paste)

Metropolitan LWR Total Volume:

Fridley LWR Total Volume:

Blue Lake LWR Total Volume:

Seneca Disposal Site Total Volume:

Empire LWR Total Volume:

Calculate Total Disposal Site Volumes

Total Reported Volume:

★ 1. Have there been any significant changes in your business or operations during this reporting period? Yes No

★ 2. I certify that all reported volume information is accurate. Yes No

Exit Save Next

Copy/Paste instructions

Total Volume of Liquid Waste Discharged into the Disposal Systems during the Reporting Period

	Disposal Site	Waste Type	Volume	Unit
 				Gallons

Add New Record

(Show/Hide Copy and Paste)

FILL FORM USING COPY AND PASTE:

Update Data

Metropolitan LWR Total Volume:

Fridley LWR Total Volume:

Blue Lake LWR Total Volume:

Seneca Disposal Site Total Volume:

Empire LWR Total Volume:

Calculate Total Disposal Site Volumes



Total Reported Volume:

* 1. Have there been any significant changes in your business or operations during this reporting period? Yes No

* 2. I certify that all reported volume information is accurate. Yes No

Copy/Paste data transfer to table

Total Volume of Liquid Waste Discharged into the Disposal Systems during the Reporting Period

	Disposal Site	Waste Type	Volume	Unit
 				Gallons

Add New Record

(Show/Hide Copy and Paste)

FILL FORM USING COPY AND PASTE:

10/5/2024	No	12345	Fridley LWR	Domestic Septage	1000	12345 Evergreen Drive
10/6/2024	No	12350	Fridley LWR	Domestic Septage	1000	12350 Evergreen Drive
10/7/2024	No	12346	Metropolitan LWR	Landfill Leachate	2000	2001
10/8/2024	No	12347	Fridley LWR	Commercial	1000	Pizza Zone Restaurant Grease Trap
10/9/2024	No	12348	Metropolitan LWR	Holding Tank	1000	
10/10/2024	No	12349	Fridley LWR	Domestic Septage	2000	
10/11/2024	No	12350	Metropolitan LWR	Domestic Septage	1000	
10/12/2024	No	12351	Metropolitan LWR	Domestic Septage	1000	

Update Data

Metropolitan LWR Total Volume:

0

Fridley LWR Total Volume:

0

Blue Lake LWR Total Volume:

0

Seneca Disposal Site Total Volume:

0

Empire LWR Total Volume:

0


Calculate Total Disposal Site Volumes











Total Reported Volume:



Copy/Paste total volume calculation

Total Volume of Liquid Waste Discharged into the Disposal Systems during the Reporting Period

 Data uploaded successfully.

	Disposal Site	Waste Type	Volume	Unit
 	Metropolitan LWR	Domestic Septage	5000	Gallons
 	Fridley LWR	Domestic Septage	5000	Gallons
 	Metropolitan LWR	Landfill Leachate	2000	Gallons
 	Fridley LWR	Commercial	1000	Gallons
 	Metropolitan LWR	Holding Tank	1000	Gallons

Add New Record

(Show/Hide Copy and Paste)

Metropolitan LWR Total Volume:

Fridley LWR Total Volume:

Blue Lake LWR Total Volume:

Seneca Disposal Site Total Volume:

Empire LWR Total Volume:

Calculate Total Disposal Site Volumes

Total Reported Volume:

* 1. Have there been any significant changes in your business or operations during this reporting period? Yes No

* 2. I certify that all reported volume information is accurate. Yes No

Exit **Save** **Next**

Training opportunities

- **In-person training sessions will be held immediately following this Liquid Waste Hauler Workshop at 10:00 am**
- **Tuesday, April 9, 2024** - Training will be available by appointment from 10 a.m. - 3 p.m.
 - **Location: Metro 94 Business Center, 455 Etna St. N, Suite 32, St. Paul, MN 55106
- **July 2024** – Date and Time to be determined
- Please contact the IORS Support Team at MCESIndustrialOnlineReporting@metc.state.mn.us or 651-602-4789 to schedule an appointment.



IORS training materials and support

The screenshot shows the Metropolitan Council website's navigation menu with 'WASTEWATER & WATER' selected. A sidebar on the left lists various services, with 'Online Reporting' highlighted. The main content area is titled 'ONLINE REPORTING' and includes a description of the IORS system, a requirement to create individual accounts, and three main action buttons: 'Log in', 'Create an account', and 'Deactivate an account'. Below these are sections for 'Questions about online reporting' and 'Training for online reporting'.

WASTEWATER & WATER +

Services +

Industrial Waste -

Dental Clinics

Discharge Permits +

Fats, Oils, Grease, and Rags +

Rates & Fees

> Online Reporting

Spill Reporting

ONLINE REPORTING

The Metropolitan Council Environmental Services (MCES) Industrial Online Reporting System (IORS) is a CROMERR-compliant web-based reporting system that allows permitted industrial users to electronically submit reports, permit renewal applications and annual statements to MCES.

To meet CROMERR regulations, we require each individual to create their own IORS account. We do not allow sharing accounts.

Log in
Log into the Industrial Online Reporting System

Create an account

- Create a new account in IORS
- Instructions for creating your account (PDF)

Please allow up to three business days to receive your registration forms by email.

Deactivate an account

If an individual user no longer works at your facility, please submit an account deactivation form (Microsoft Word).

Questions about online reporting

Contact the IORS support team, Monday-Friday from 8:00 a.m. to 4:00 p.m.:

651-602-4789
MCESIndustrialOnlineReporting@metc.state.mn.us

Training for online reporting

If you would like to schedule a training session with one of our IORS support team members, please email us at MCESIndustrialOnlineReporting@metc.state.mn.us with your request. We will work with you to find a date, time, and place (in-person, by phone, or Microsoft Teams meeting) to conduct the training.

- Help sheets for online reporting
- Templates for online Sample Results SMRs



IORS Support Team is available
Monday – Friday
from 8 AM to 4 PM

Questions or feedback?
Email us at:
MCESIndustrialOnlineReporting@metc.state.mn.us or
call us 651-602-4789

Communication – IWPP website

The screenshot shows the Metropolitan Council website's navigation menu with 'WASTEWATER & WATER' selected. A sidebar on the left lists categories like 'Services', 'Industrial Waste', and 'Liquid Waste Haulers'. The main content area is titled 'LIQUID WASTE HAULER PROGRAM' and includes a description of the program, its purpose, permit requirements, and a list of steps for obtaining a permit. A 'Log in' button for the IORS system is also visible.

WASTEWATER & WATER +

Services +

Industrial Waste +

Discharge Permits -

> Liquid Waste Haulers

Microbrewery

Special Discharge Program

LIQUID WASTE HAULER PROGRAM

Regulating disposal of hauled domestic, commercial, and industrial wastes

Metropolitan Council Environmental Services (MCES) collects and treats wastewater in the Twin Cities metro area to protect public health and the environment. We own and operate nine wastewater treatment plants and over 600 miles of sewer pipe that convey wastewater from 111 communities to our treatment plants. The wastewater treated at these plants must meet strict environmental standards to ensure that receiving waters are kept clean.

Purpose of the Liquid Waste Hauler Program

- To regulate septage and other hauled liquid waste discharged to the Metropolitan Disposal System
- To designate and approve adequate facilities for disposal
- To collect equitable load charges for the waste discharged

Permit required to discharge approved liquid wastes at MCES facilities

Liquid Waste Haulers that want to use MCES liquid-waste receiving facilities to discharge approved domestic, commercial, and industrial wastes must obtain a permit through the Industrial Waste and Pollution Prevention section.

How to obtain a Liquid Waste & Hauler Permit

- Complete and submit an [MCES Liquid Waste Hauler Permit Application](#)
- Include the first year's permit fee with the permit application (see [Rates and Fees](#))
- Obtain a [Subsurface Treatment System \(SSTS\) license from the Minnesota Pollution Control Agency](#) if you plan to haul domestic septage

How permitted liquid waste haulers must comply with the program

- Fulfill all permit requirements and conditions
- Comply with all disposal facility rules and requirements
- Enroll in the MCES [Industrial Online Reporting System \(IORS\)](#)
- Submit quarterly or semi-annual reports via IORS:
 - [How to submit your discharge report \(PDF\)](#)
 - [LWH Load Tracker template \(Excel\)](#)
- Pay annual permit fees and load charges as assessed: [Rates and Fees](#)

Log in

Log into the Industrial Online Reporting System

<https://metro council.org/LWH>

Other communication

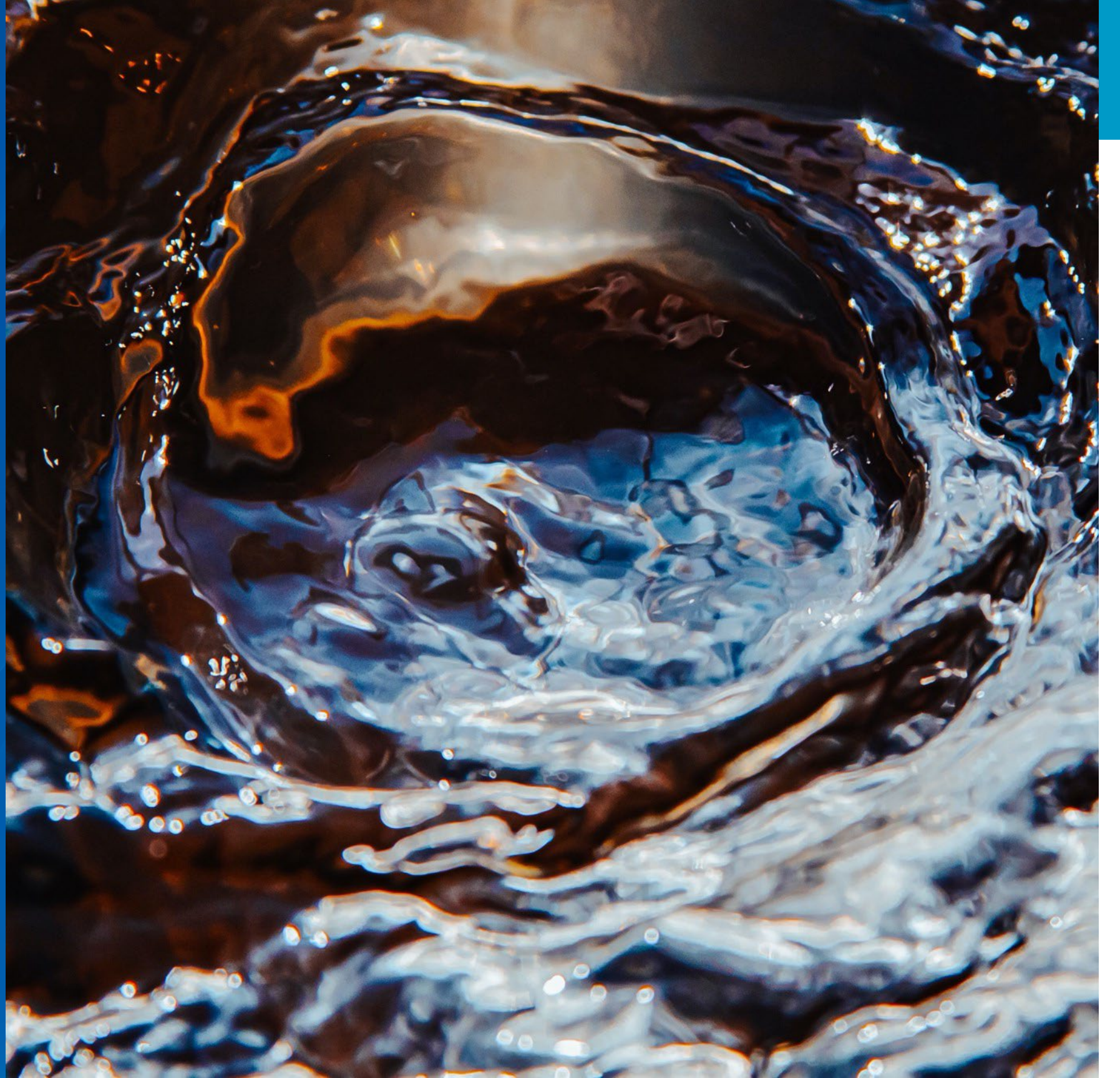
- We send important information via email. **Please add to your contacts so you do not miss out!**
 - Emails from: METC@public.govdelivery.com
 - Report due dates
 - Workshops and trainings
 - Disposal site notifications
 - **NOT SPAM!!**
- Open Channel News
- We will share more as 2025 rates and fees develop



Questions & Answers



Permit Overview



Liquid Waste Hauler program: purpose

1 Regulate

- To regulate the discharge of hauled liquid wastes into the metropolitan disposal system

2 Designate

- To designate approved disposal sites for discharge of hauled liquid wastes (access to controlled disposal sites)

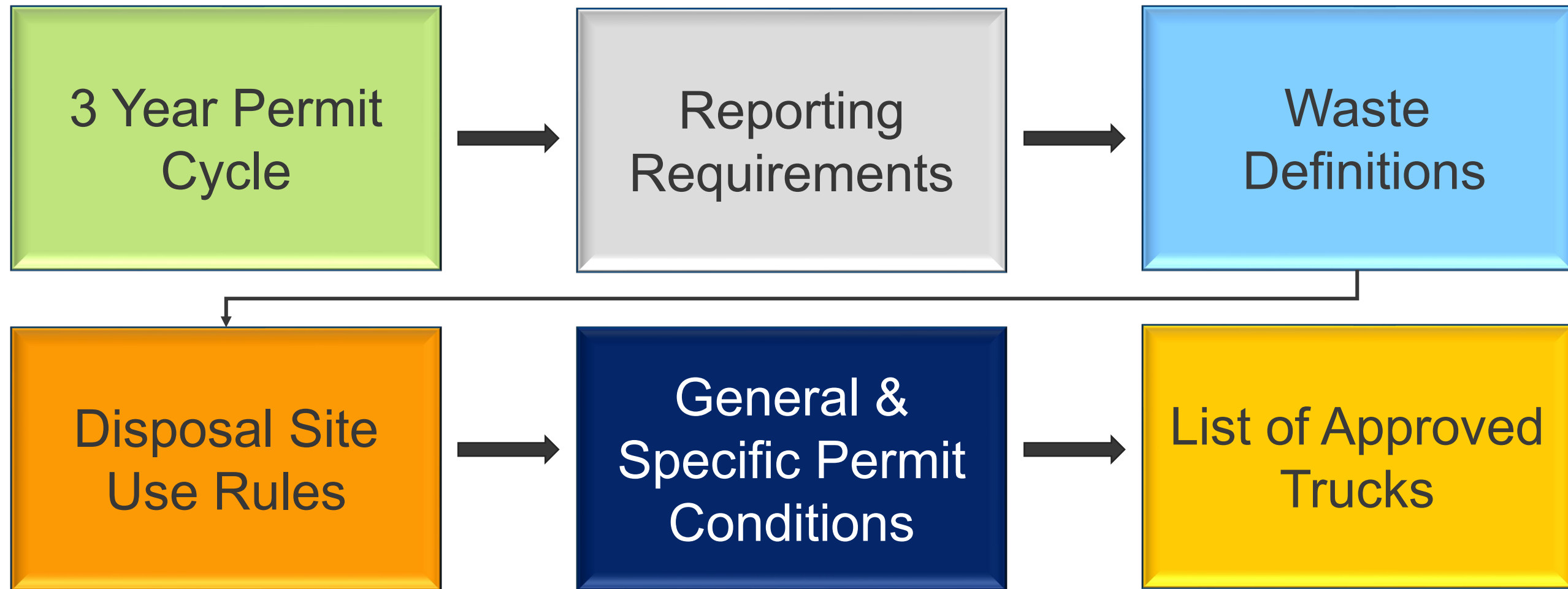
3 Collect

- To collect equitable loads charges for the waste discharged

This allows LWH Haulers to use MCES approved disposal sites for the discharge of approved wastes and MCES to recover costs associated with treating these wastes

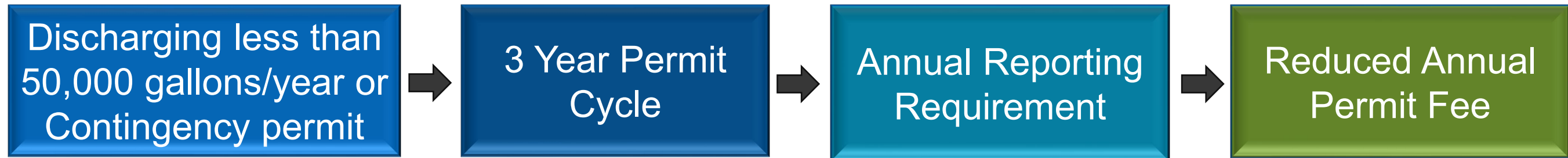
88 Active LWH Permits

Liquid Waste Hauler (LWH) permit



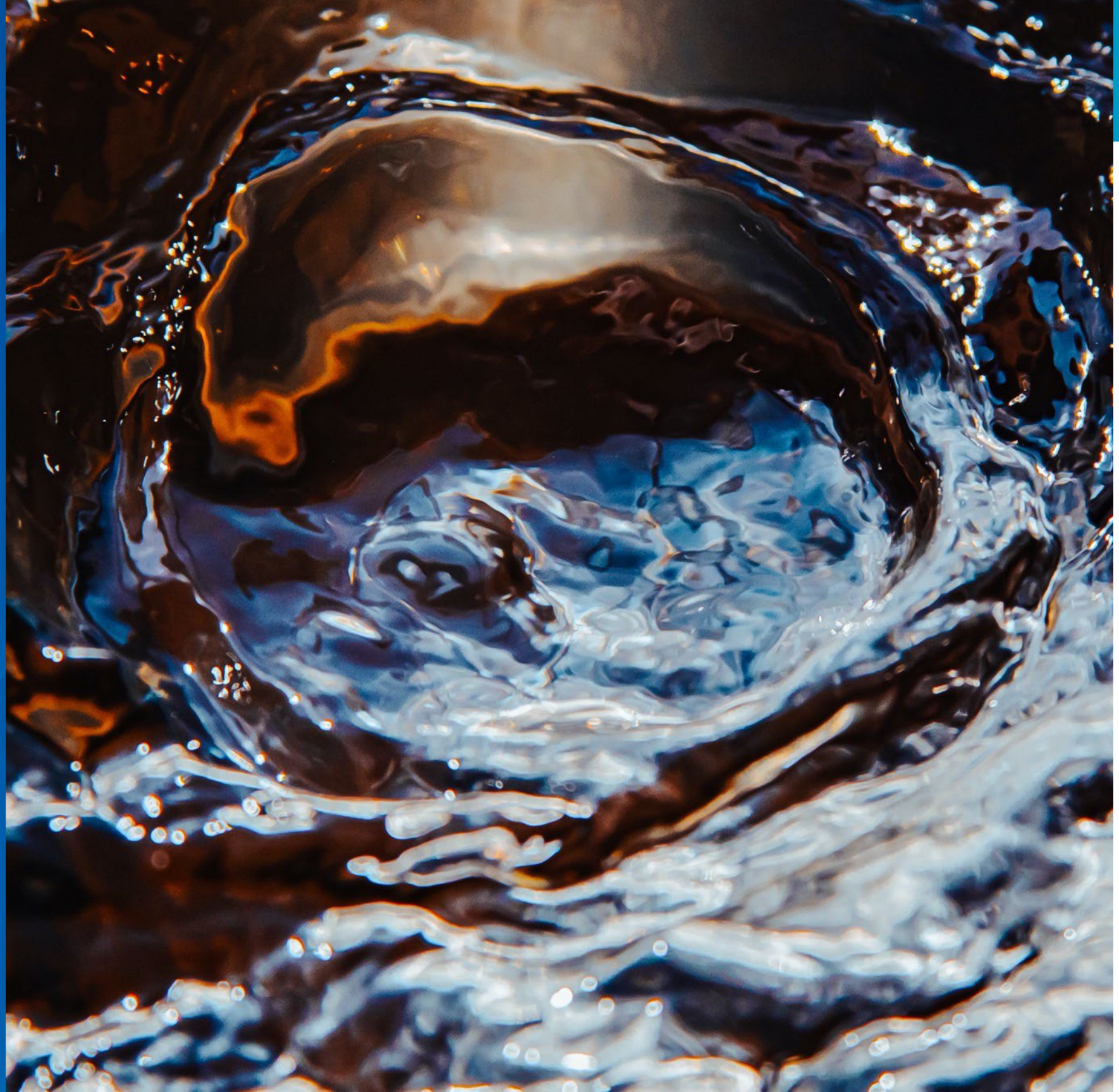
Permit Documents Sent Electronically &
All Reports Completed through the Electronic Reporting System

LWH low volume permit



There are currently 20 Low Volume LWH Permits issued since implementation in April 2022

Accepted Liquid Waste Types



Domestic waste

- **Septage** – Septic tank with drain field
- **Holding Tank** – Sealed tank



Commercial waste

Portable Toilet

Restaurant
Grease Trap

Flammable
Waste
Trap/Sand Trap

Commercial
Holding Tank



Industrial waste

All loads that do not meet the definition of a domestic or commercial waste

Require sampling and analysis,
written approval

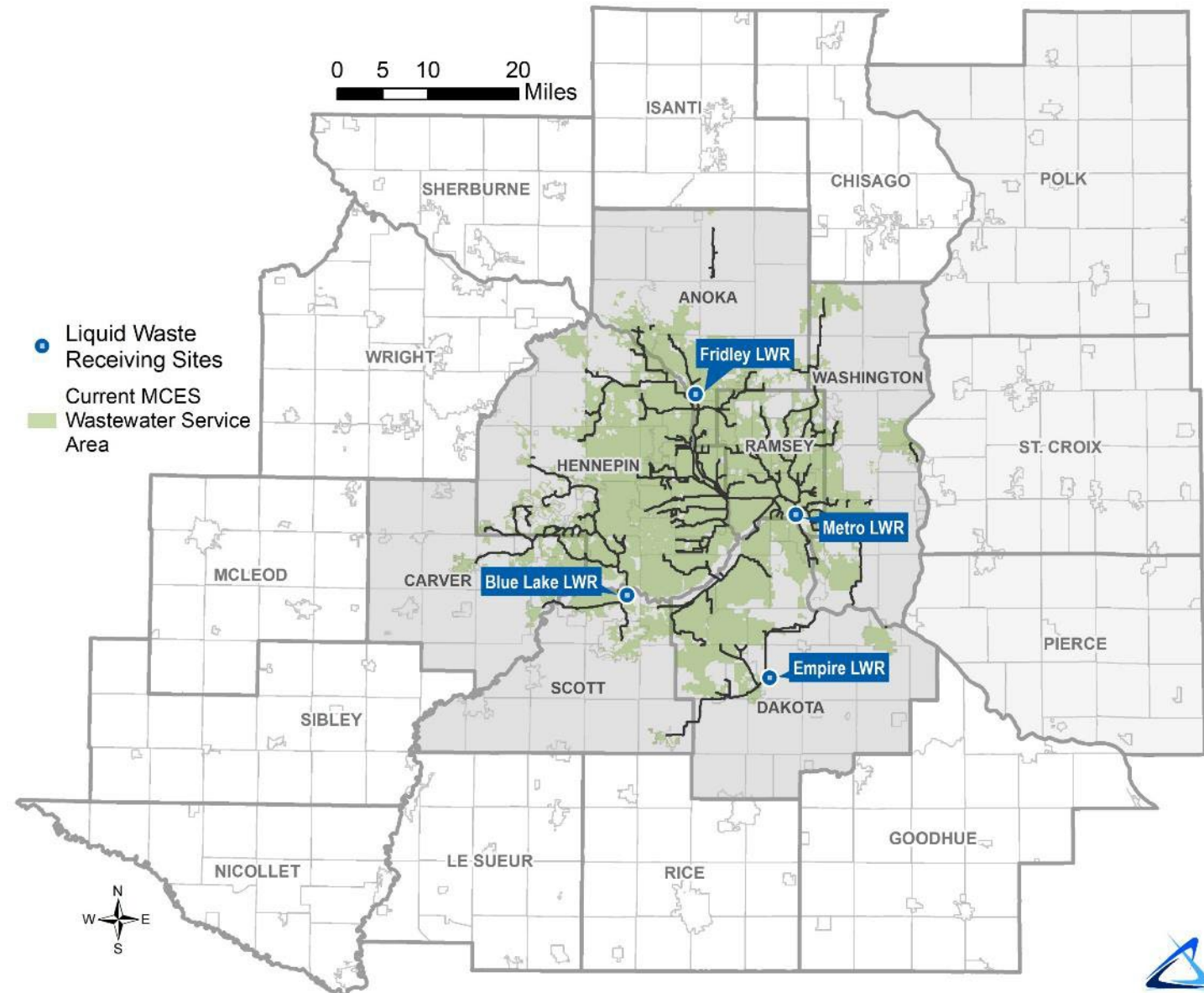
- Industrial Waste
- Landfill Leachate
- Groundwater/Surface Water



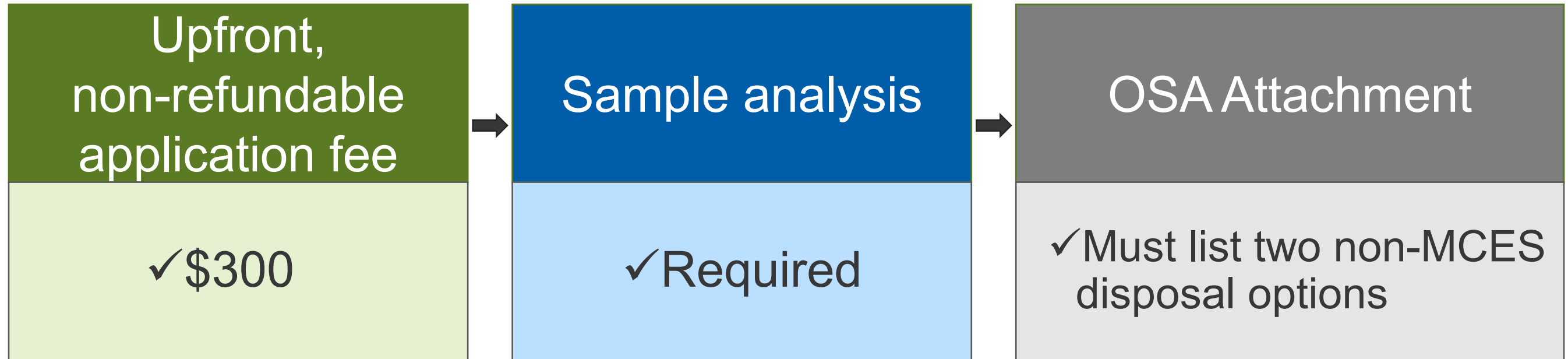
Out-of-service area (OSA) waste

Domestic, Commercial, and Restaurant Grease are accepted OSA waste types in the following collar counties

- Chisago
- Goodhue
- Isanti
- LeSueur
- McLeod
- Nicollet
- Pierce
- Polk
- Rice
- Sherburne
- Sibley
- St Croix
- Wright



OSA industrial waste



OSA Permit Application

Apply for a permit or approval to discharge

[Industrial Waste Forms - Metropolitan Council \(metro council.org\)](https://metro council.org)

— APPLY FOR A PERMIT OR APPROVAL TO DISCHARGE

Application for businesses to discharge industrial wastewater to the sanitary sewer in the seven-county metro area:

- [Industrial Discharge Permit Application \(Microsoft Word\)](#)

Application for microbreweries and brewpubs to discharge process wastewater to the sanitary sewer in the seven-county metro area:

- [Microbrewery and Brewpub Permit Application \(Microsoft Word\)](#)

Application to haul wastewater to MCEs facilities:

- [Liquid Waste Hauler Permit Application \(Microsoft Word\)](#)

Application for disposal of sanitary sewer cleaning waste (using a vacuum truck or trailer) at MCEs Vector disposal sites:

- [Sanitary Sewer Cleaning Waste Hauler Application \(Microsoft Word\)](#)

Application to discharge groundwater and/or surface water to MCEs facilities via onsite connection or hauled by an MCEs permitted liquid waste hauler:

- [Groundwater and/or Surface Water - Special Discharge Permit Application \(Microsoft Word\)](#)
- [Community Review Form](#) - required for direct ground/surface water discharges to the sanitary sewer (Microsoft Word)

Application to discharge landfill leachate and/or condensate to MCEs facilities via on-site connection or hauled by an MCEs permitted liquid waste hauler:

- [Landfill Leachate and/or Condensate - Special Discharge Permit Application \(Microsoft Word\)](#)

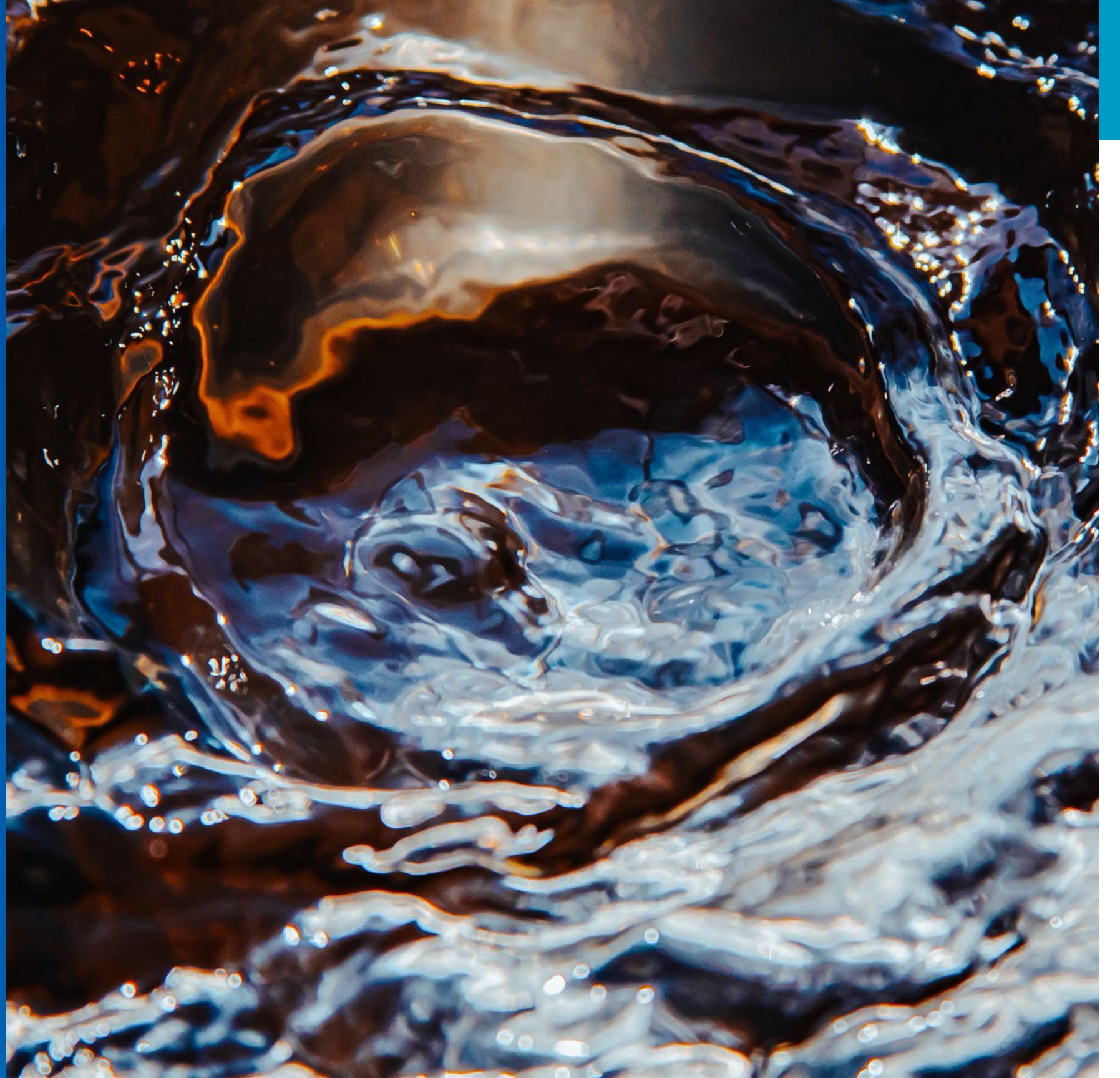
Approval request for a one-time industrial wastewater discharge to MCEs facilities (not to be used for groundwater or surface water):

- [Industrial Discharge Approval Request Form \(Microsoft Word\)](#)

Supplementary attachments for Approval requests and Groundwater/Surface applications

- [Out-of-Service Area Attachment](#) - required for waste generated outside of MCEs service area (Microsoft Word)
- [PFAS Attachment](#) - required for waste containing per-and polyfluoroalkyl substance (PFAS) (Microsoft Word)

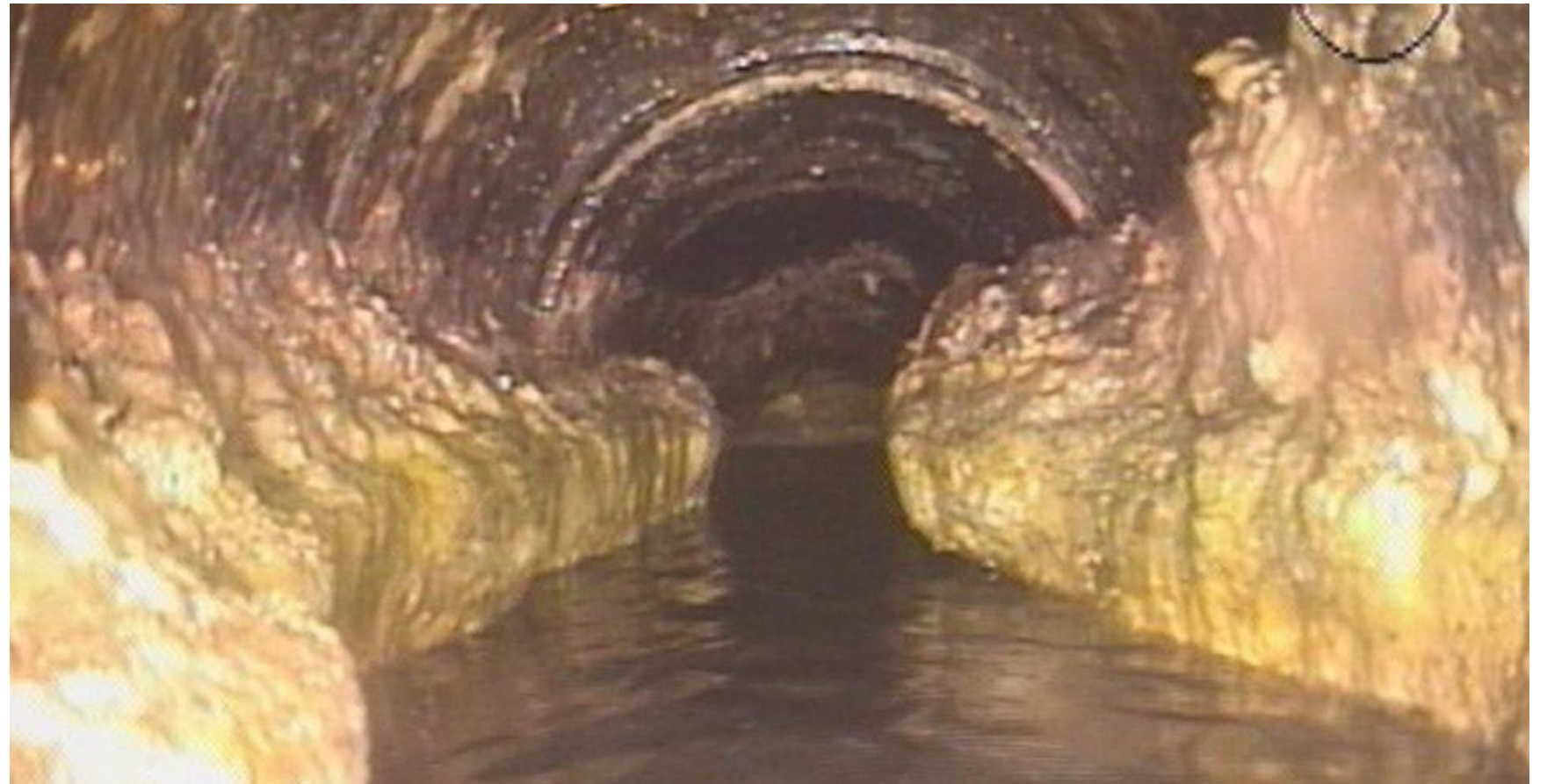
Fats, Oils, Grease and Rags Update



Fats, oils, and grease pipe issues

Fats, Oils, and Grease

- Internal plumbing
- City sewer lines
- MCES interceptors (pipes)



Fats, oils, and grease more issues

Fats, Oils, and Grease

- MCES lift stations
- MCES wastewater treatment plants



Fats, oils, and grease resources

Website now available!

<https://metro council.org/Wastewater-Water/Services/Industrial-Waste/Fats-Oils-Grease.aspx>

Toolkit items include:

- Video – The problem with Fats, Oils, and Grease (3 min)

Food establishment items:

- Best Management Practices
- “No Grease” sign to post near sinks and floor drains
- Grease trap maintenance log
- Listing of who to call for grease trap services and questions

Toolkit

Task force members expressed a great need for educational and outreach materials. We focus on food service establishments, and will be adding materials as we expand this toolkit.



Who to call listings for grease trap services and questions (Excel)

Collection system rag issues

Rags = term includes paper towels, disposable wipes, tissues, napkins, wash cloths, and other textiles.



Rags on pump



Rags in pump



Rags removed from check valve

Printable poster – Educate/remind employees

What Not to Flush webpage (choose Businesses)

metrocity.org
metrocouncil.org

DO NOT FLUSH THESE ITEMS

Toilet paper breaks down in water - *these items do not!*

Paper Towels **Tissues & Napkins** **"Flushable" Wipes** **Diapers**

These items can clog your property's sewer service line, cause sewage backups, and result in expensive repairs to city and regional wastewater systems.

THEY ALL ADD UP TO MESSY CLOGS

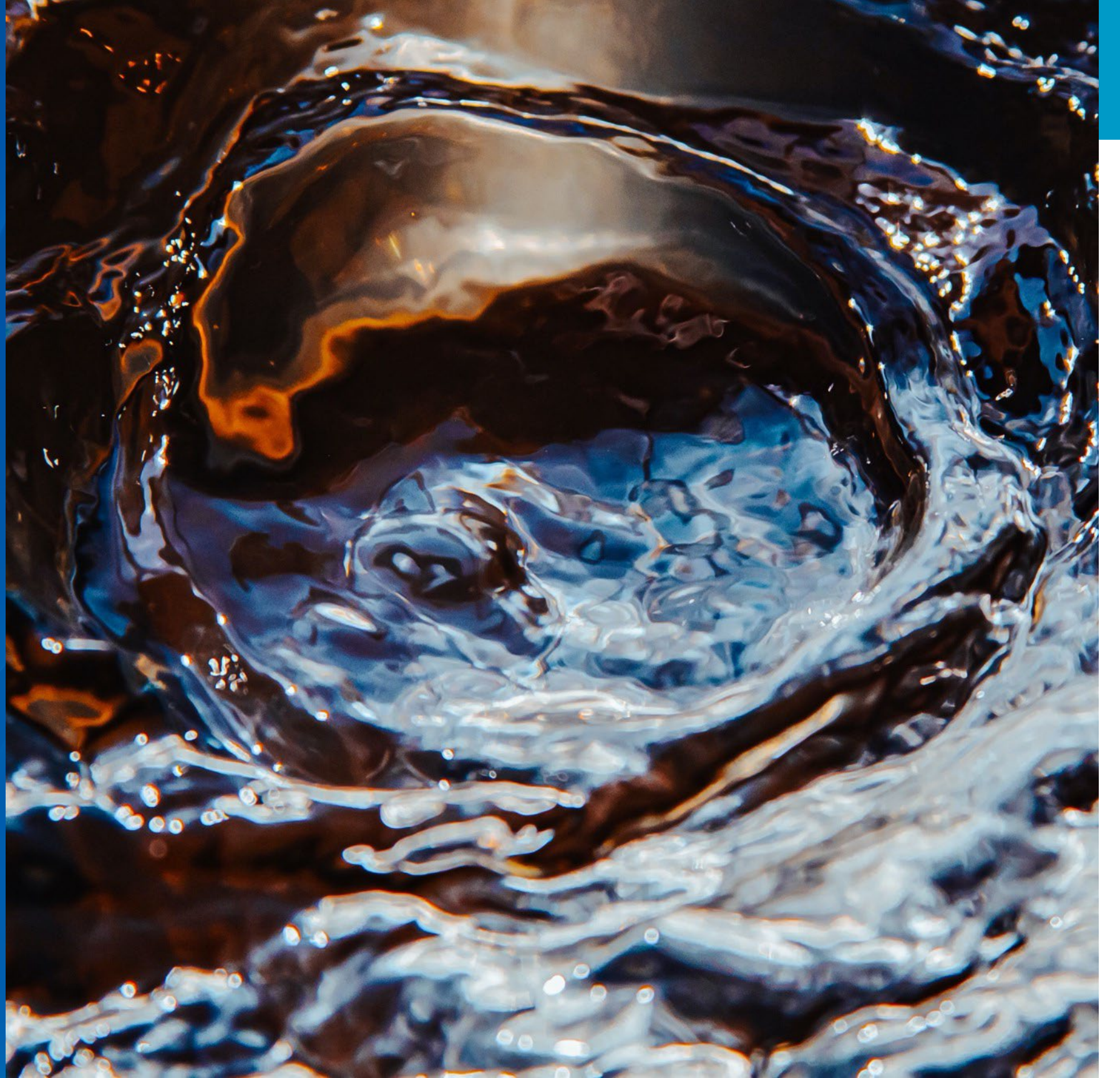
METROPOLITAN COUNCIL

Portable toilet hauler stickers – Garbage/rag issues

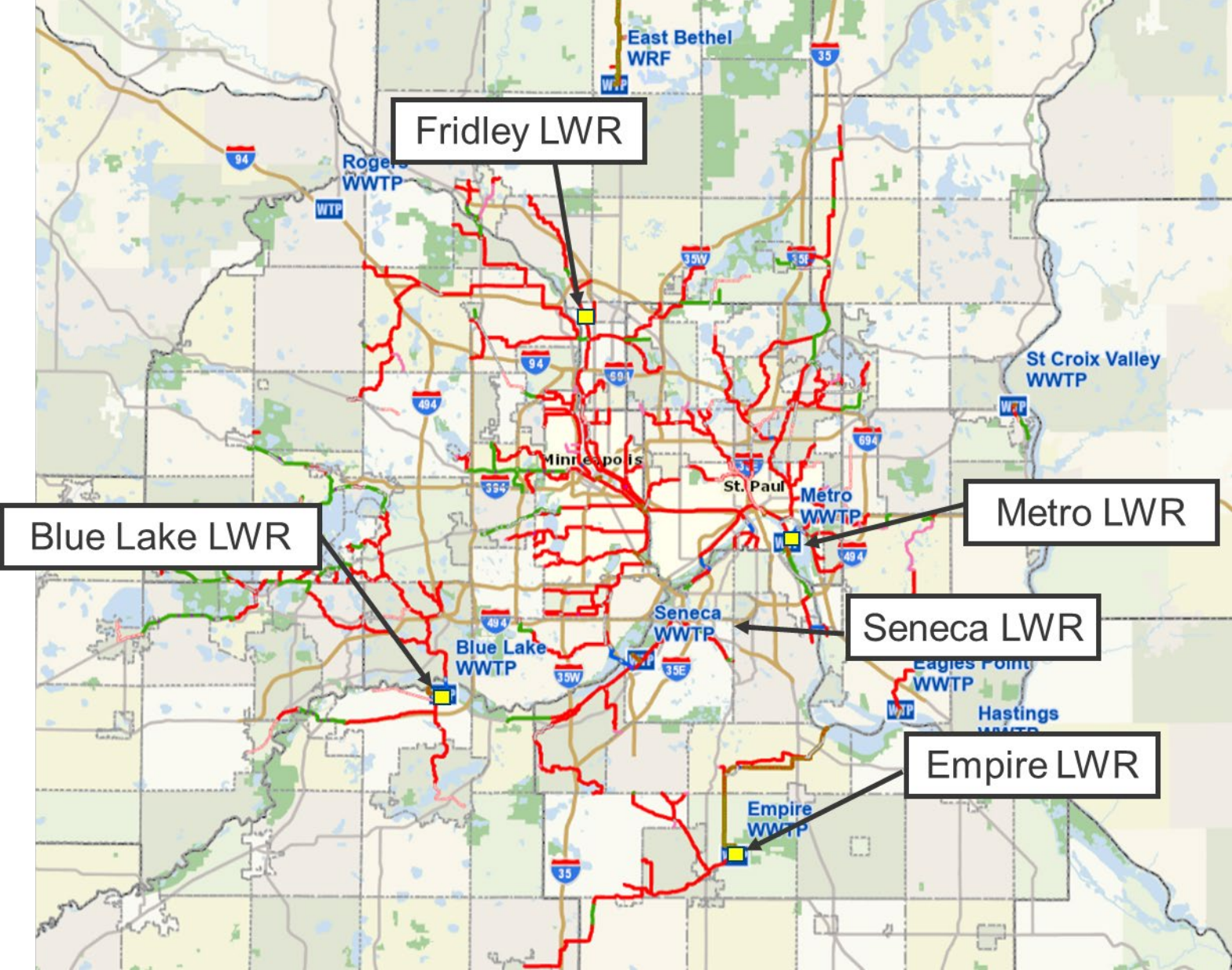


www.nacwa.org/toilets

Disposal Sites and Updates



Liquid Waste Receiving (LWR) site locations



Metro LWR – Metropolitan Plant in St. Paul

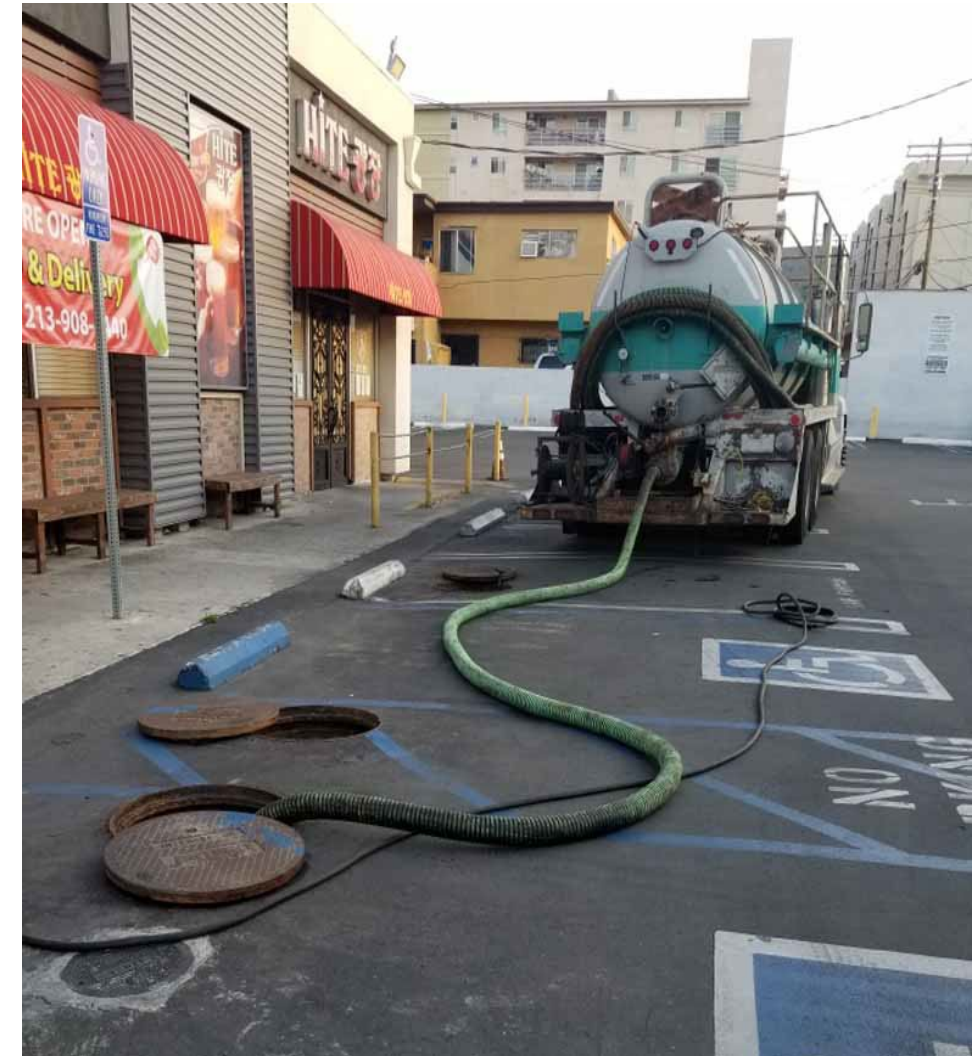
Waste Types Accepted: ALL

- Open 24/7
- Card controlled access
- Volume determination: 70' truck scale
- 6 discharge holes
 - 2 discharge holes dedicated to MCES trucks only
 - 2 discharge holes with yellow piping for landfill leachate
- 2023 discharge volume = 43,878,509 gallons
 - Average daily loads = 62 loads/day
- Annual scale certification by MN



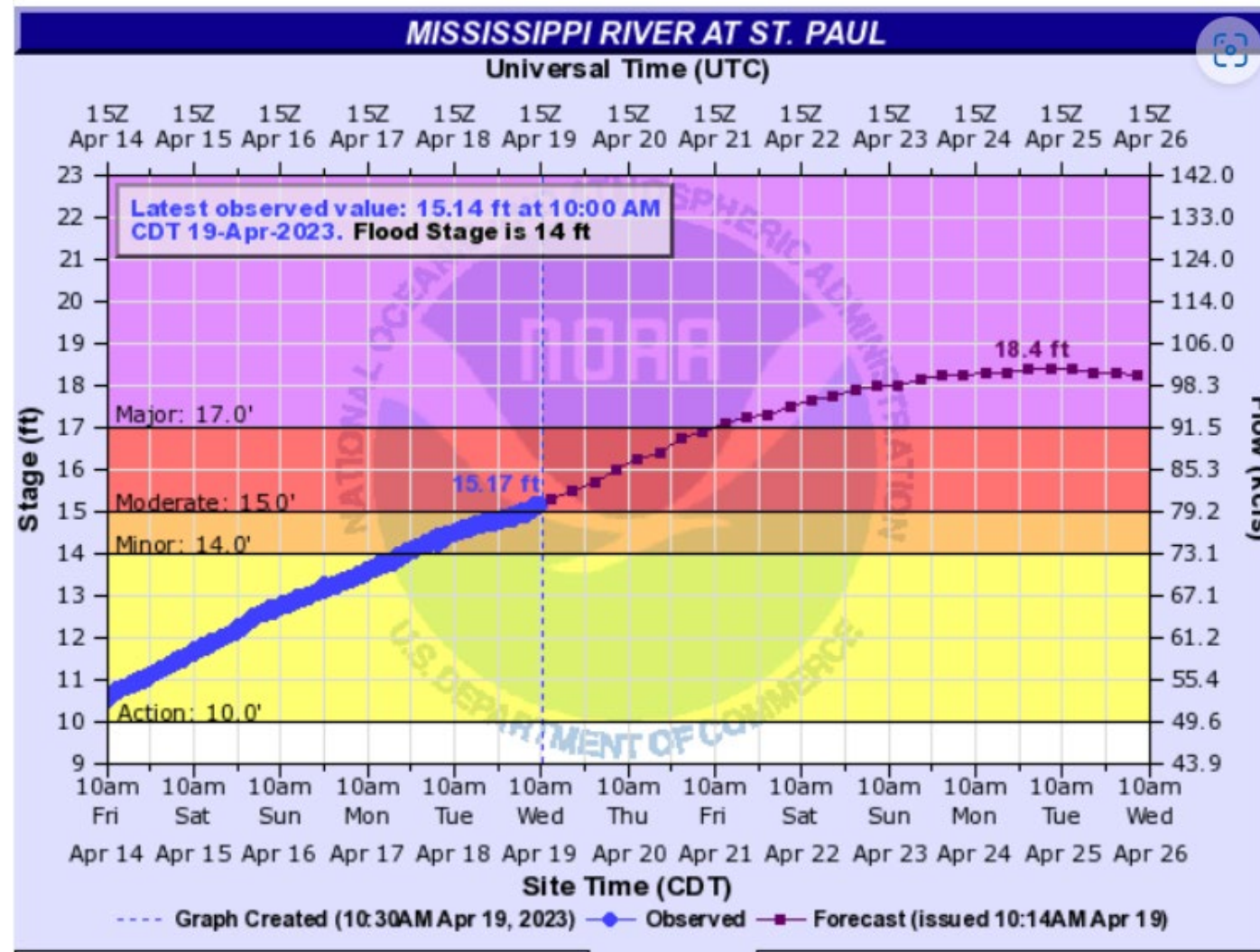
Grease at Metro LWR

- Restaurant grease trap waste must be hauled to Metro Plant
- MCES requires **all grease loads greater than 500 gallons be discharged at the Wet Vector site inside the Metro Plant** due to operational problems with large grease loads in the liquid waste receiving system
 - Wet Vector site usage information will be added to the Industrial Waste website in the future
 - Contact your permit administrator for Wet Vector site directions and unloading procedures



2023 Flood Recap

Flood Stage is 14 feet



Flood preparation: Temporary road build for employee access



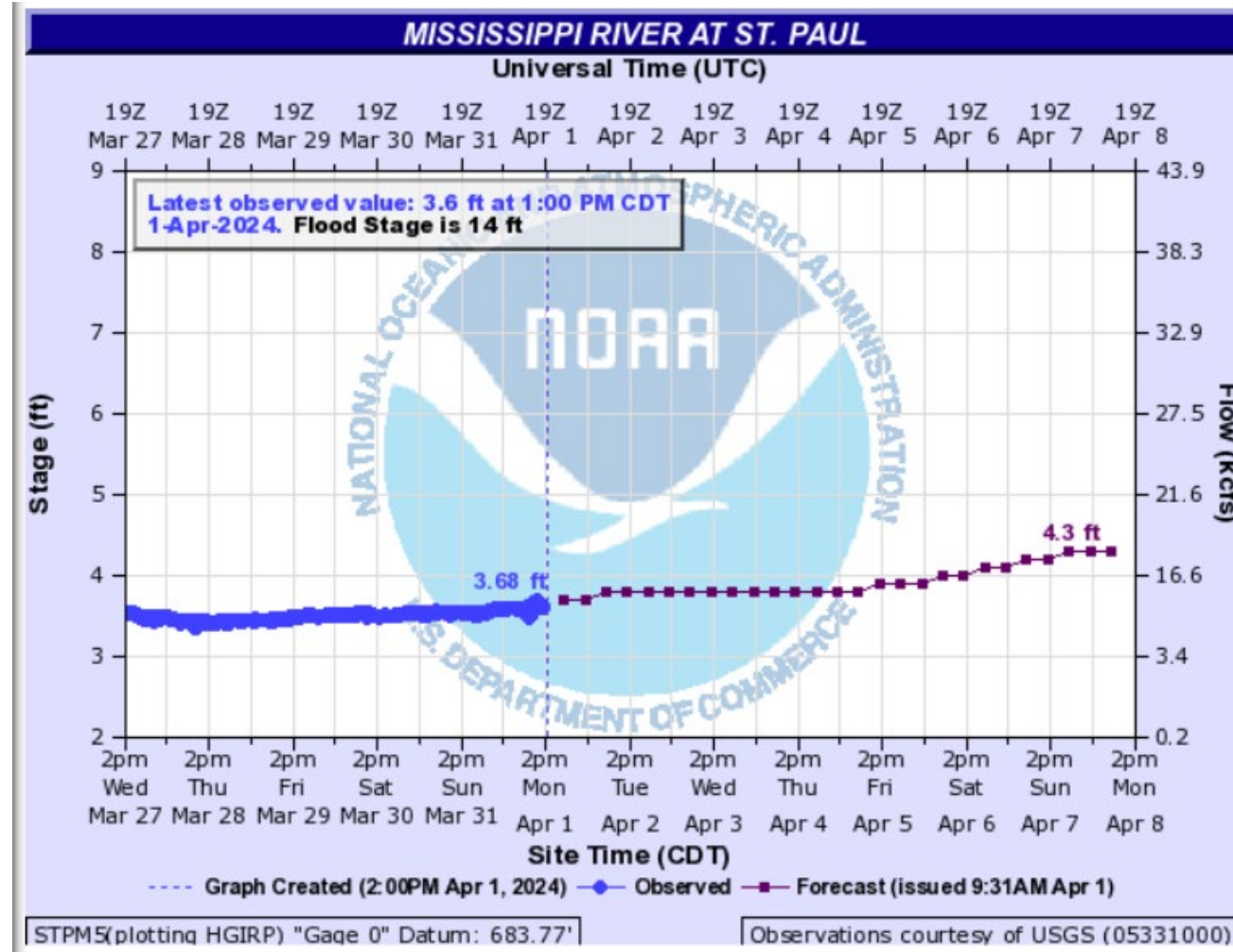
Metro flood preparations

- **Based on Mississippi River levels (St. Paul gage), Metro LWR was closed for nearly 5 weeks**
 - At 9 ft, Metro Plant begins taking actions
 - At 10 ft, Metro Plant turns on their effluent pumps
 - About 15 ft, Childs Road is closed and a road is constructed to allow access for critical employees to travel across the barrel
 - LWHs rerouted to 3rd & Commercial and other MCES disposal sites
- **Thank you for your patience and flexibility in using the alternative site**

Past flooding on Childs Road access to Metro Plant



2024 River Update

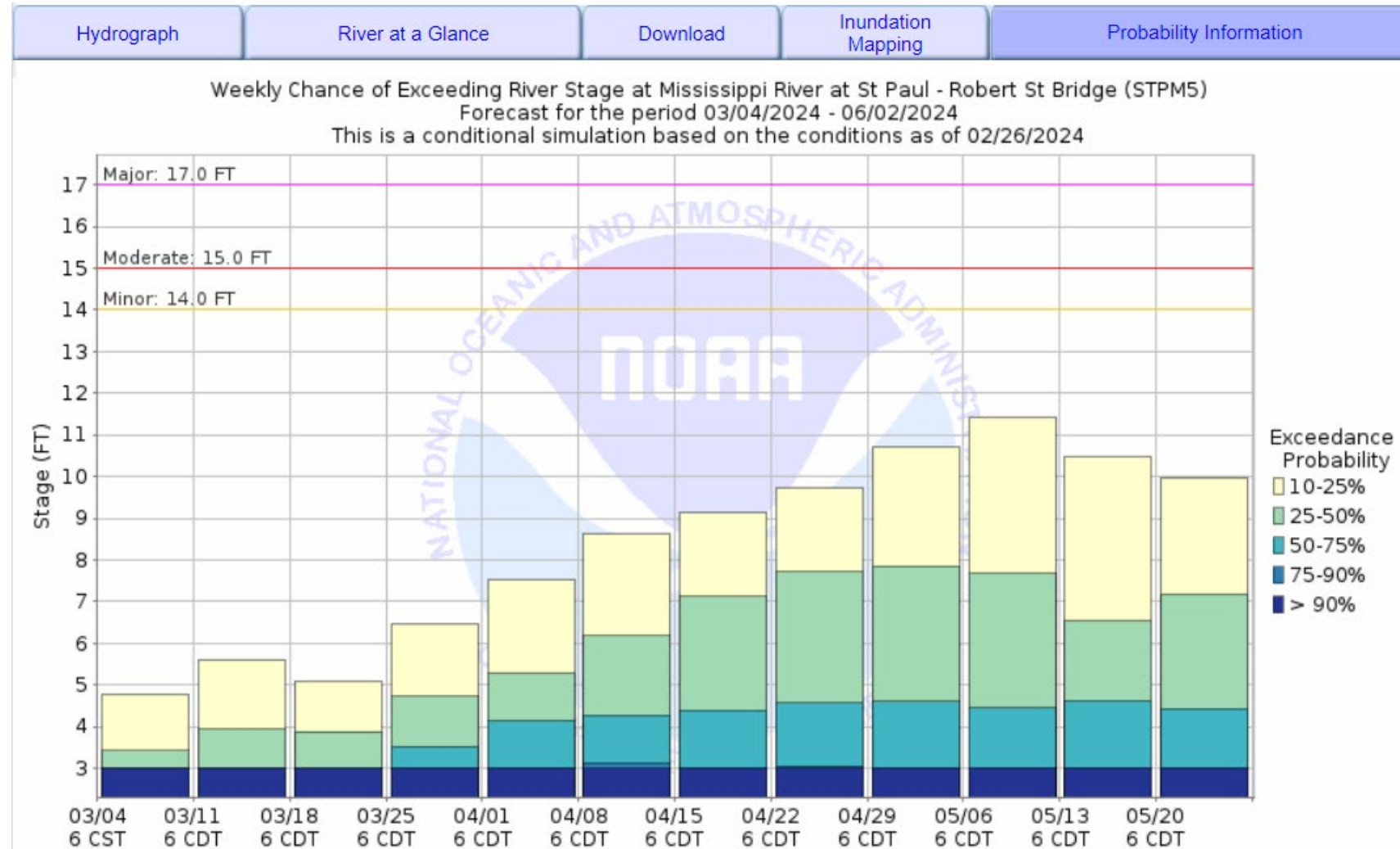


Recent Crests

- (1) 14.87 ft on 05/20/2023 (P)
 - (2) 18.24 ft on 04/26/2023 (P)
 - (3) 13.32 ft on 05/20/2022
 - (4) 7.70 ft on 04/16/2021
 - (5) 14.41 ft on 04/06/2020
 - (6) 20.19 ft on 03/31/2019
 - (7) 13.66 ft on 07/01/2018
 - (8) 14.38 ft on 05/01/2018
 - (9) 10.59 ft on 05/29/2017
 - (10) 9.96 ft on 09/30/2016
- [Show More Recent Crests](#)

(P): Preliminary values subject to further review.

2024 Flooding Probability



Empire LWR - Empire Plant in Empire Township

Waste Types Accepted: domestic, holding tank, and portable toilet waste

- Access controlled by security guard
- 2 discharge holes
- Water cabinet – for clean-up purposes
- Haulers required to complete receipts at security building
- Volume determination: hauler estimation
- 2023 discharge volume = 6,700,376 gallons,
Average daily loads = 8 loads/day



Fridley LWR – Business Park in Fridley

Waste Types Accepted: domestic, holding tank, portable toilet waste, preapproved landfill leachate

- Card controlled access
- Security guard on site
- Volume determination: magnetic flow meters
- 2 indoor discharge sites: couple up connections
- Water available in bay for cleanup, restroom available
- Wastewater pretreated prior to discharge to MCES' interceptor
- 2023 discharge volume = 20,390,030 gallons,
Average daily loads = 27 loads/day



Seneca LWR – Seneca Plant in Eagan

Waste Types Accepted: domestic, holding tank, and portable toilet waste



- Access controlled by security staff
- 1 discharge hole
- Haulers required to complete receipts at security building
- Volume determination: hauler estimation
- 2023 discharge volume = 15,423 gallons
- Less than a load per day



Blue Lake LWR – Blue Lake Plant in Shakopee

Waste Types Accepted: domestic, portable toilet waste, preapproved landfill leachate, commercial (no grease loads)

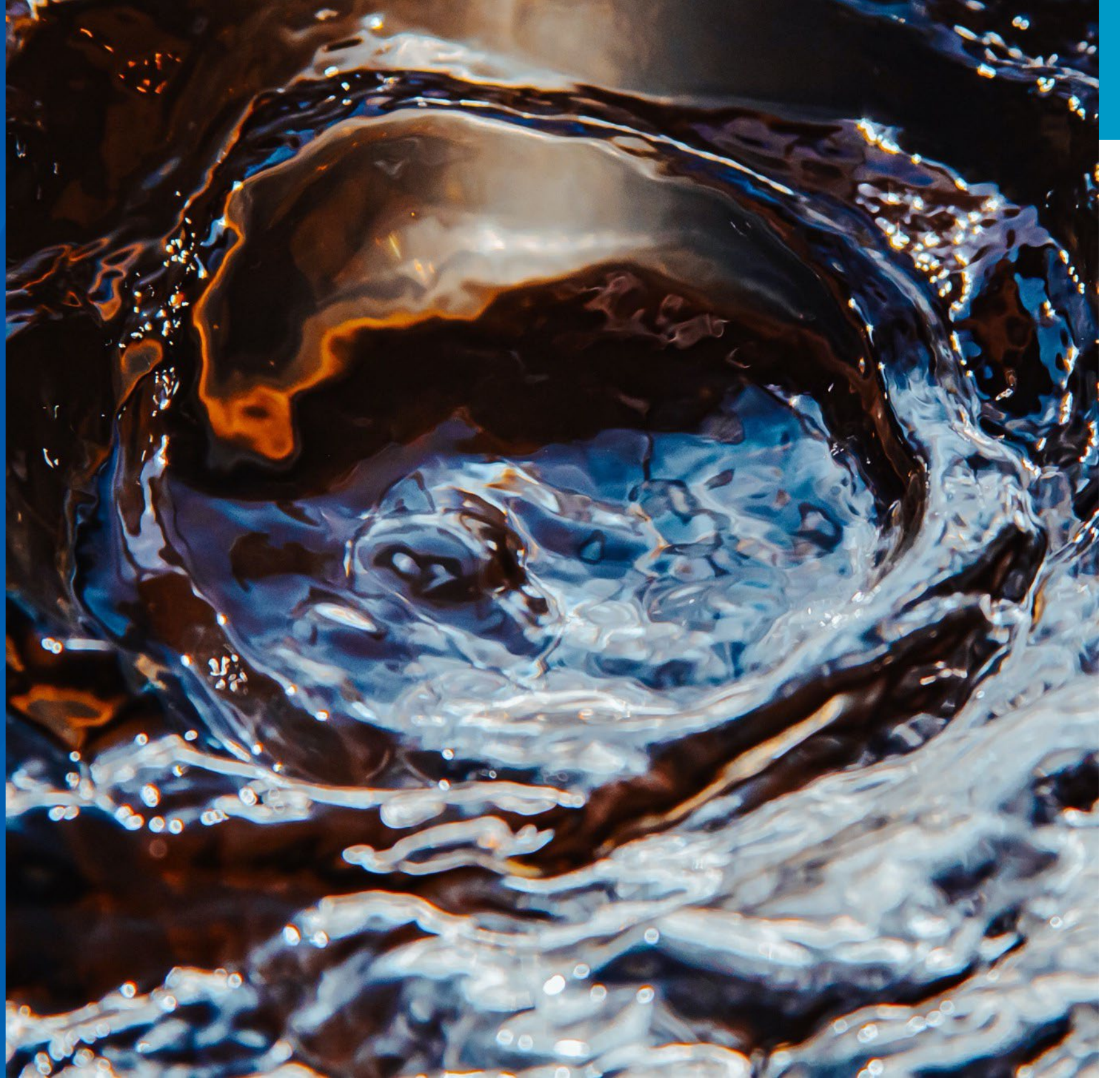
- Card controlled access
- Volume determination: 50' truck scale
- 2 discharge holes
- Water cabinet & Pavement deicing system – push button activation
- Influent Screening- ¼ inch bar screen openings
- 2023 discharge volume = 32,346,862 gallons,
Average daily loads = 40 loads/day



Questions & Answers



Wrap up



Wrap Up Items

- Thank you for attending!
- **If you have any comments or questions that arise after you leave today, please send them to your permit engineer.**
- IWPP will be moving to Metro Plant in 2025 – future meetings will be in different location
- **Now available: [Metro Plant tour video](#)**
- Once 2025 preliminary rates and fees are set, we will notify you.

Additional Online Reporting 1:1





Thank You

Contact us:
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View workshop recording:
<https://metrocouncil.org/Wastewater-Water/Services/Industrial-Waste/Workshops.aspx>

