



**METRO  
WATER  
RECOVERY®**

## Industrial Waste Survey (IWS) Program

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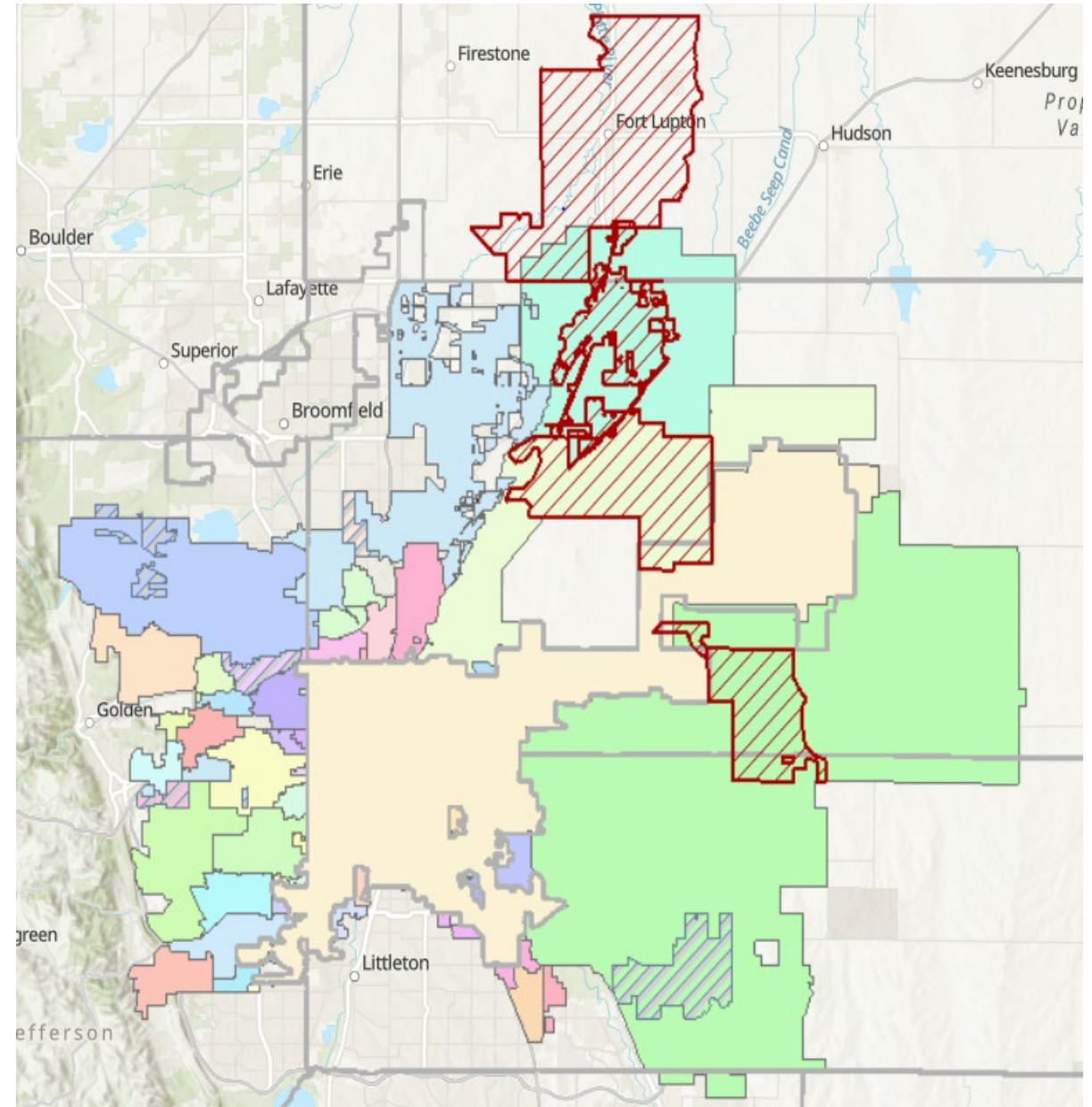
# Agenda

- Introduction to Metro's Service Area
- What is IWS and Why Is It Important?
- Metro's Field IWS Process and Importance
- Wastewater Discharge Information Form (WDIF) Approach
- PFAS Study
- 2023 Summer Intern Program – Positive Impact
- What has been Accomplished in 2023?
  - Future of Metro's IWS
- Metro's Survey Progress
- Questions



# Intro to Metro's Service Area

- 61 Connectors
  - 26 Special Connectors
- Two facilities
  - 130 MGD RWHTF/8 MGD NTP
  - 500+ Dry tons of Class B biosolids reused as fertilizer per week
- 805 Square miles of service area
  - Over 35% of Colorado's population
- 2.2+ Million people of Denver, Adams, Arapahoe, Jefferson, Douglas, and Weld counties
- 400 + Employees
- 40 Board members
- 85% of the South Platte is made-up of water recovered by Metro





## What is Industrial Waste Survey?

- EPA definition as per 40 CFR 403.8(f)(2)(i):
  - The process of identifying and locating IUs and characterizing their industrial discharge
  - Once the IUs are identified, the POTW must classify them to determine whether pretreatment standards and requirements apply to any of the facilities
  - SIU or CIU
  - The IU inventory is updated on an on-going basis
- It is beneficial (and required) to conduct an initial in-depth survey and institute measures to update the list continuously



# Why is Industrial Waste Survey Important?

- POTW health in general (prevention of upset)
- Industrial Pretreatment (especially survey) are the gatekeepers for the protection of the plant
- Standard Industrial Classification (SIC) and North American Industry Classification System (NAICS) are used to classify various types of business entities
- The types of resources used:
  - Water and sewer billing records
  - Applications for sewer service
  - Chamber of Commerce and local business directories
  - Business license records
  - POTW and wastewater collection personnel and field observations
  - Business associations
  - The Internet
- Metro's database - Survey Module
  - Tracks name, location, classification, applicable standards, basis for limits imposed, volume of discharge, control mechanism status, compliance dates, and other special requirements for each IU
- A service area of Metro's size makes this a large task





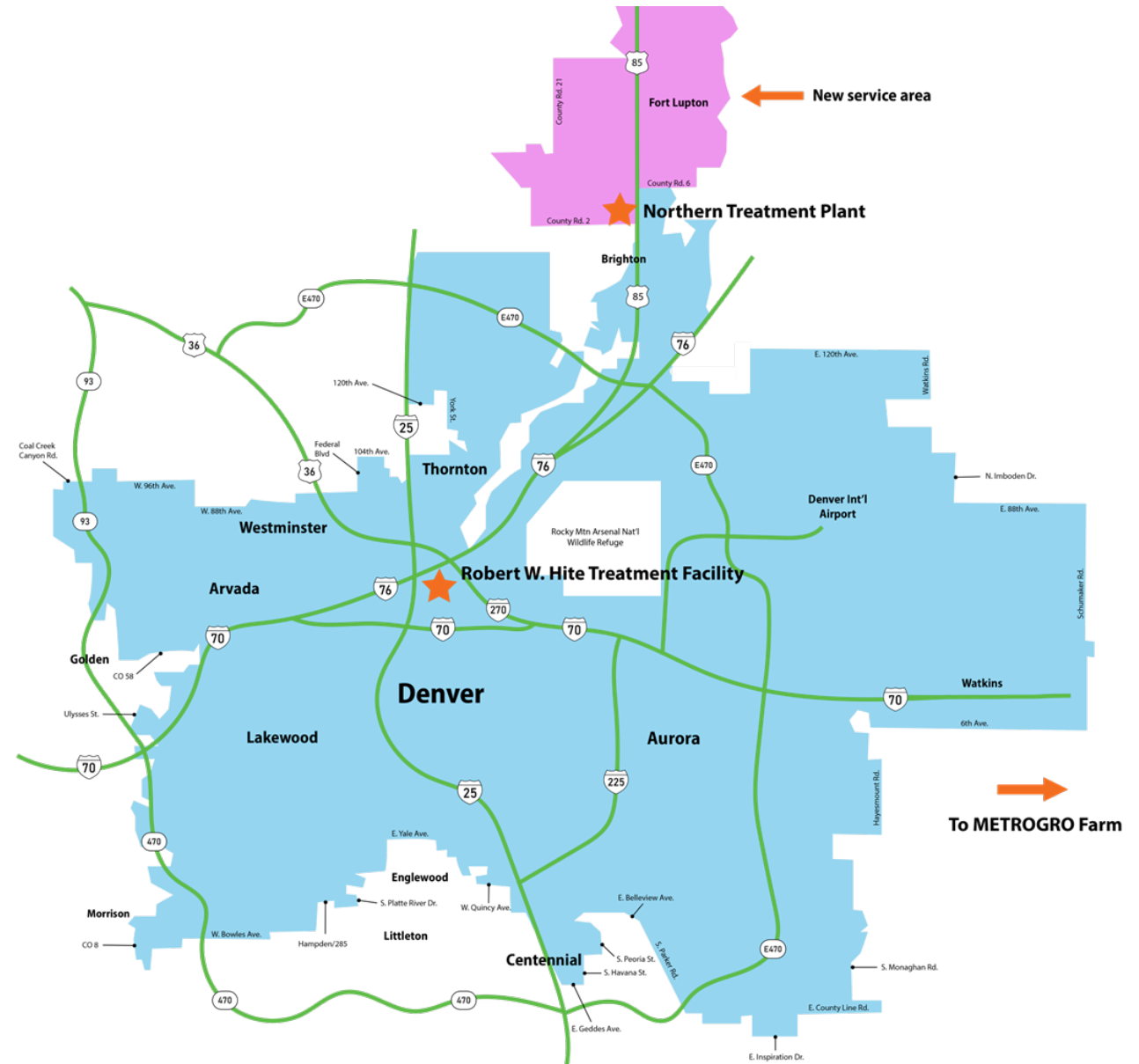
# Metro's Field Survey Process

- Generate a list from the database by connector or zip code
- Create a game plan and organization system
  - Laptop
  - Spreadsheets
  - Maps/Metro's GIS program
- Drive through service area (field survey)
- Update information
- Look for red flags
- Commercial, industrial, residential zones
  - Mixed zones
- TIP - Having paperwork handy is very Important
  - Rules and Regulations
  - Questionnaires (WDIF)
  - Limited inspection forms
  - Information forms (Ex. PFAS)



## What Does Metro's IWS Process Look Like and Why Is This Important?

- IWS contributes to the health of Metro's two POTWs
- Eight major activities comprise the IWS
- Connectors types:
  - Member Municipalities
  - Special connectors
  - Connector of connectors
  - Residential only
- How is IWS data used?
  - Current information in Metro's database
  - Compliance and Enforcement team
  - Engineering team
  - Interdepartmental Collaboration



# WDIF Mailing Process

- Following field survey, WDIFs are sent out to IUs determined by the IU's business code (ex. Car Wash, Metal Products, etc.)
- The WDIF requests information regarding IU activities and the nature of wastewater being discharged
- The WDIF response provides basic information needed to eliminate obvious facilities (dry processes) from further follow-up
- We send flagged industries to our Engineering team for further evaluation (greater potential to be an SIU or CIU)
- Metro's current goal is to send out 30-60 per week
  - 3-year rotation
  - WDIF sent based on business type determination table.
- Tracking sheet for organization



## Wastewater Discharge Information Form & PFAS Survey

Users of the sewer system are required to fully complete this form and any attachments **within 14 days of receipt**. Do not leave a section blank. If it does not apply, mark "N/A." Attach additional sheets where necessary to have a complete and accurate submittal. The completed and signed application is to be mailed to: Industrial Pretreatment Program, Metro Water Recovery, 6450 York Street, Denver, CO 80229.

### PART I

1. Business information		
Facility Name:		
Facility Address:		
Mailing Address (if different):		
Phone Number:	Website:	
2. Contact information		
Authorized Representative		Individual Providing Information (if different)
Full Name:	Full Name:	
Job Title:	Job Title:	
Direct Phone Number:	Direct Phone Number:	
Email Address:	Email Address:	
3. Type of business (Check all that apply)		
<input type="checkbox"/> Manufacturing <input type="checkbox"/> Sales/Service <input type="checkbox"/> Food & Beverage <input type="checkbox"/> Medical Office <input type="checkbox"/> Distribution <input type="checkbox"/> Printing/Screen Printing <input type="checkbox"/> Warehouse <input type="checkbox"/> Auto Service <input type="checkbox"/> Other _____		
4. Method of wastewater disposal		
<input type="checkbox"/> Municipal Sewer <input type="checkbox"/> Septic Tank* <input type="checkbox"/> Haul (See question 12) <small>*If answer is "Septic Tank", skip to the signature line on Page 5. Sign, date, and return this questionnaire in the enclosed, pre-paid envelope.</small>		
5. Total monthly water usage at your business (in gallons). Use your water bill or the following estimate calculation.		
<input type="checkbox"/> Water Bill		<input type="checkbox"/> Estimate Calculation – Total # of employees _____ X Average working days per month _____ X 25 gallons = _____ (water usage per month)
Summer Usage	Winter Usage	Summer irrigation usage? <input type="checkbox"/> Yes <input type="checkbox"/> No
6. Type of wastewater discharged into municipal sewer		
<input type="checkbox"/> Domestic		<input type="checkbox"/> Industrial/Process
<small>NOTE: "Domestic wastewater" includes wastewater produced from the non-commercial preparation of food or wastewater containing only human excrement and similar matter from the sanitary convenience of dwellings and commercial, industrial, or institutional buildings. All other wastewater should be considered "Industrial."</small>		
Domestic discharge (gallons per day)	Industrial discharge (gallons per day)	Other processes or waste streams discharging to the sanitary sewer and gallon per day





# PFAS Study

- Metro developed a PFAS study that is attached to the end of Metro’s WDIF
  - 5 Additional pages
  - Industry specific questions
- Took time to develop, wanted to be thorough and get it right the first time
- Will send our WDIF/PFAS study per request

<b>PFAS Questions</b>	
Per-and polyfluorinated compounds (PFAS) are human-made chemicals found in common items such as non-stick coating materials, paper food packaging, water/stain-resistant fabrics, industrial chemicals, and firefighting foams to name a few.	
To adequately fill out this part of the questionnaire please contact vendors and check Safety Data Sheets (SDS or MSDS) to help determine if PFAS is in any of the products used on site.	
<b>20. Are you aware if your facility’s processes or waste streams contain levels of any per- and polyfluoroalkyl substances (PFAS)?</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
If you answered "Yes", what is the source of those PFAS and provide or summarize any other information known about the source, including analytical/sample results.	
<b>21. Does your facility discharge PFAS wastewater or waste streams to the sanitary sewer?</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
If you answered "Yes," what is the source of the PFAS and what volumes and frequencies are the discharges?	
<b>22. Are there any other fluorinated chemicals used (look for "flouro" in the SDS/MSDS chemical listing or product name, e.g., "fluorinated surfactant(s)" or "organic fluorosulfonate") in the facility?</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not known	
If you answered "Yes", please list the type/brand and/or product names of the materials used.	
<b>23. Does your facility have a fire suppression system?</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not known	
If you answered "Yes," please list the type of system (type/brand) and product names of the foams or other chemicals used in the system.	
<b>Answer the following questions if your facility is one of the following, otherwise check "No" and sign the certification statement on the last page.</b>	
Electroplater/Metal Finisher/Circuit Board Manufacturer – Question 24	
Paper and Packaging Manufacturer - Question 25.	
Leather, Textile, Fabric and/or Carpet Treating Operation - Question 26	
Leather Tanner - Question 26	
Teflon coating process - Question 27	
Landfill that discharges leachate - Question 28	
Centralized Waste Treatment (CWT) - Question 29	
Contaminated groundwater Site - Question 30	
Use Class B Firefighting Foam - Question 31	



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# Summer Intern Program – Positive Impact

- Why the need for summer interns?
  - Large service area with over 20,000+ IUs
- Two teams of two
  - 50% in the field 50% data cleanup/ data entry
  - The command center
  - Staff resources and training
- Valuable help for large service area or large projects
- Focused and concise process helped with productivity



# 2023 Achievements and Lessons Learned

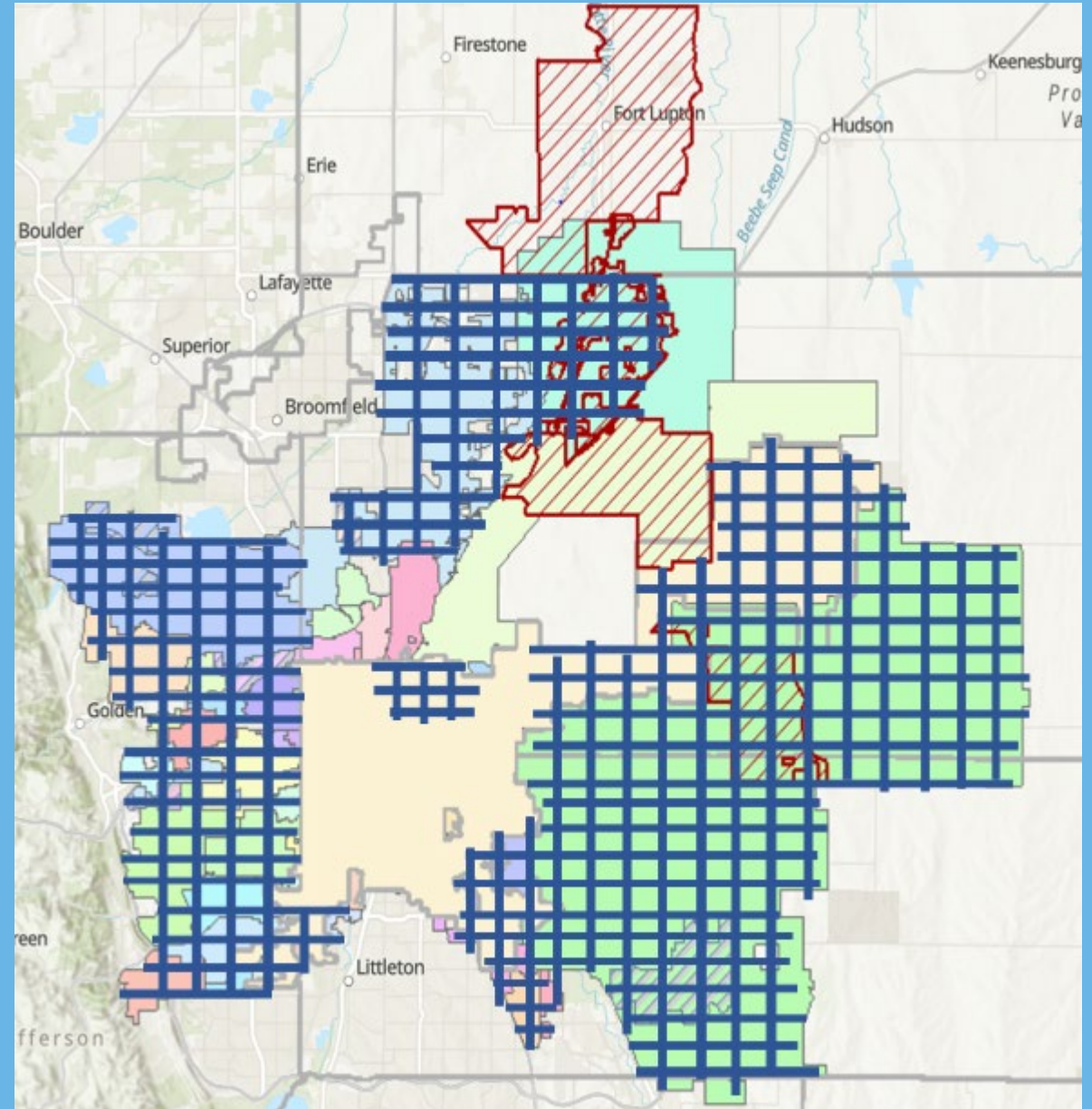
- What we learned/what worked:
  - Efficiency to achieve more with a smaller team
  - Data cleanup/entry is more time consuming than expected
- Interns focused on field survey
  - Trained to meet Metro's pretreatment standard:
    - Precision of work
    - Documentation
- What does the future hold?
- Reoccurring processes for field survey and WDIF mailing (one/three-year rotation)





# Metro's Survey Progress 2023

- 55 Completed connectors (includes special connectors)
- 11 Denver zip codes
  - Remaining: 28
- Recorded during field survey
  - 18,773 IUs - approximately
  - 70% of Metro's service area has been completed to date
- 502 WDIFs/PFAS mailed



# Questions?

## Contact Information:

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Thank you.

