

**BIRMINGHAM CITY COMMISSION
MUNICIPAL BUILDING, 151 MARTIN
MONDAY, SEPTEMBER 8, 2025
6:00 P.M.
SPECIAL MEETING
(WORKSHOP)**

This will be considered a workshop session of the City Commission. No formal actions will be taken. The purpose of this workshop is to discuss water and sewer infrastructure with Oakland County Water Resources Commissioner Jim Nash.

I. CALL TO ORDER

Therese Longe, Mayor

II. ROLL CALL

Alexandria Bingham, City Clerk

III. PRESENTATION & DISCUSSION

- A. Presentation from Oakland County**
- B. City Commission Discussion and Comment**

IV. PUBLIC COMMENT

V. ADJOURN

Should you wish to participate in this meeting, you are invited to attend the meeting in person or virtually through ZOOM: <https://zoom.us/j/655079760> Meeting ID: 655 079 760

You may also present your written statement to the City Commission, City of Birmingham, 151 Martin Street, P.O. Box 3001, Birmingham, Michigan 48012-3001 prior to the hearing.

NOTICE: Individuals requiring accommodations, such as mobility, visual, hearing, interpreter or other assistance, for effective participation in this meeting should contact the City Clerk's Office at (248) 530-1880 (voice), or (248) 644-3405 (TDD) at least one day in advance to request mobility, visual, hearing or other assistance.

Las personas que requieren alojamiento, tales como servicios de interpretación, la participación efectiva en esta reunión deben ponerse en contacto con la Oficina del Secretario Municipal al (248) 530-1880 por lo menos el día antes de la reunión pública. (Title VI of the Civil Rights Act of 1964).



Birmingham City Commission

Monday, September 8, 2025

The Team



Water Resources Commissioner
Jim Nash



Field Operations Manager
Gary Nigro



Special Projects Manager
Carrie Cox



Community Engagement Rep
Alyssa Taube

Who We Are

- **\$18.4 billion in managed assets**
- Oversee maintenance, operation and improvement of water and sewer infrastructure
- Governed by the Michigan Drain Code
- Ensure sustainable, efficient and resilient drainage, water and sewer systems
- Includes storm drains, sewers and drinking water systems
- Employ advanced asset management to monitor and prioritize investments
- Focus on maximizing asset lifespan and addressing climate change challenges

Impact

Water Systems

- 156,500 residents served
- 1,470 miles of water mains
- 27 water treatment facilities
- 12 water storage tanks
- 7 booster pump stations

Sewer Systems

- 149,000 residents served
- 1,230 miles of sanitary sewers
- 18 lift stations
- 7 water recovery facilities
- 3 sewage retention facilities

Regional Sewer

- 1,000,000 residents served
- 4 retention treatment facilities
- 2 water resource recovery facilities

Storm Drains

- Manage 433 county drains, including 560 miles of enclosed storm drain and 220 miles of open channel storm drain, spanning 900 miles
- Clean and inspect 6 miles of drains, to improve flow and reduce flooding risks

Dams and Lakes

- Responsible for 41 lake level control and dam structures across Oakland County
- Participates in Lake Level Improvement Boards for 47 lakes
- Inspect managed control structures

Five Outcomes

- Enhanced Public Health and Safety:** Reduce risks of flooding, backups and exposure
- Preservation of Natural Resources:** Protect water quality in lakes, rivers and drains
- Reliable Service:** Ensure uninterrupted access to drinking water and sewer services
- Economic Prosperity:** Minimize disruption, reduce costs and drive local economic growth
- Optimize Results:** Leverage external funding to reduce financial burden on residents



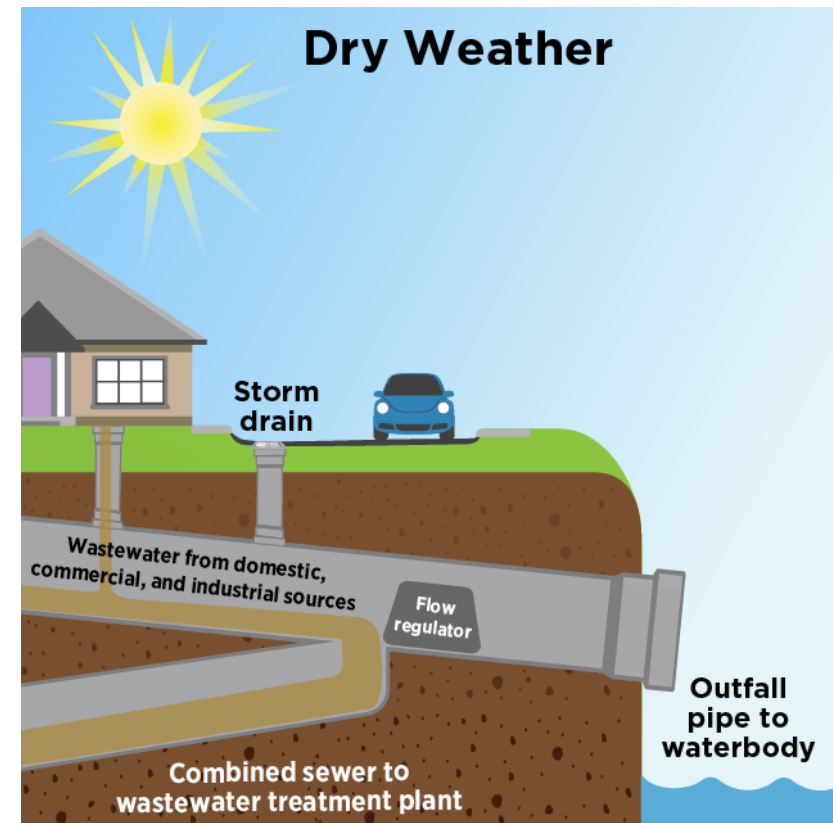
Combined Sewer System

Combined Sewer System

Stormwater and
wastewater share
one pipe

Common in older,
urban areas

During dry weather,
all flow goes
to a wastewater
treatment plant



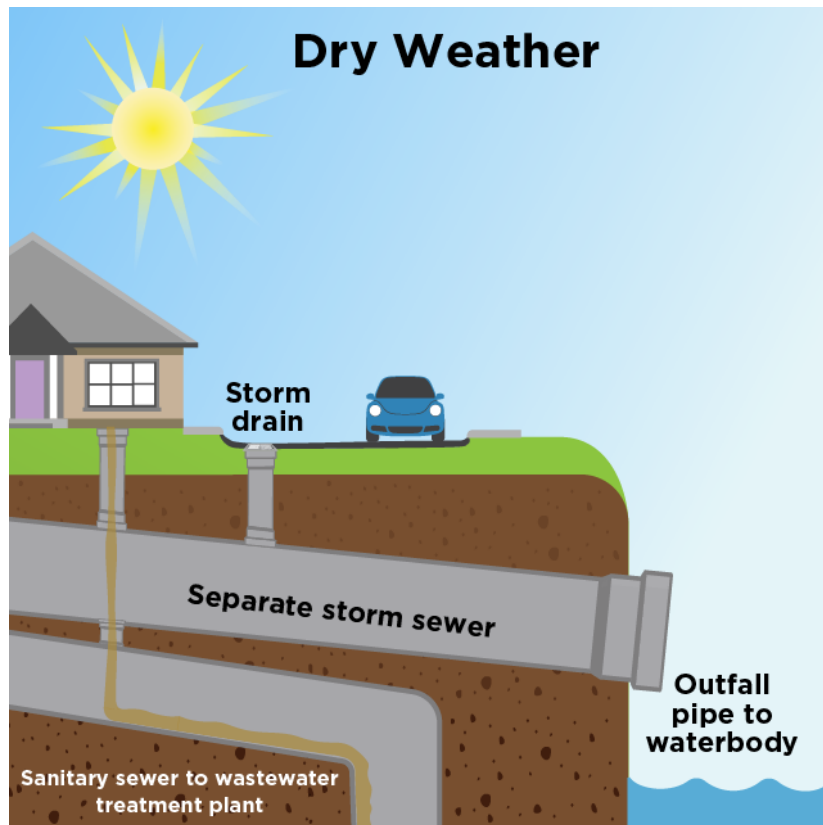
Combined Sewer System

- Combined systems require permits and long-term control plans
- Retention treatment facilities are required to operate in compliance with a National Pollutant Discharge Control Permit
- A permit allows a facility to discharge treated water into a receiving body of water
- Retention treatment facilities are a common solution to avoid untreated discharges



Separated Sewer System

Separated Sewer System



Stormwater and wastewater is collected and transported in two separate sets of pipes

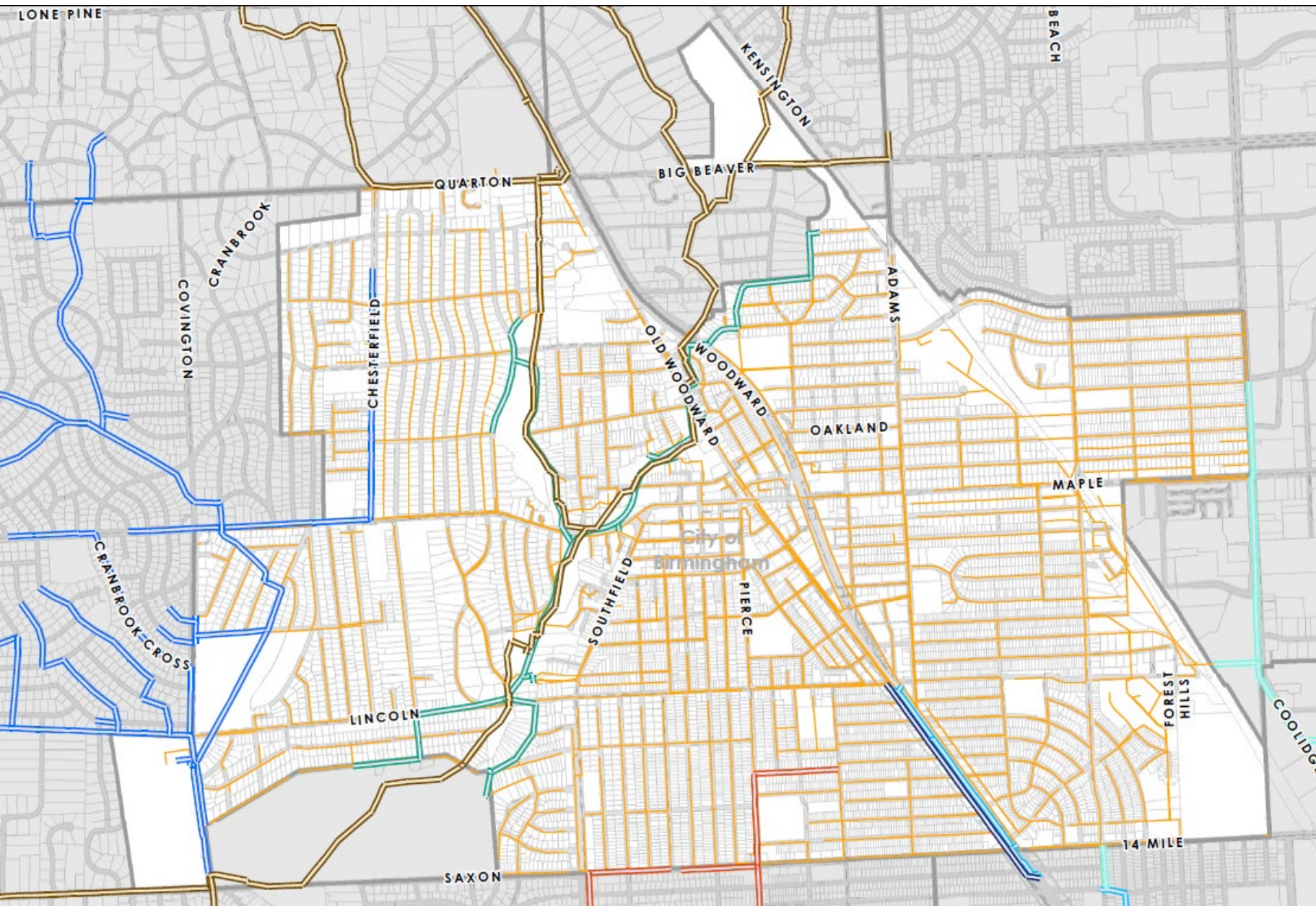
Standard with newer, modern infrastructure

The weather does not affect treatment: wastewater goes to a wastewater treatment plant and stormwater goes directly into water bodies without treatment

Separated Sewer System



- Flow from a separated system must receive secondary treatment at a wastewater treatment plant
- Sanitary sewer overflows are prohibited under the Clean Water Act
- If one occurs, we are legally obligated to report it
- Systems are often required to reduce inflow and infiltration through infrastructure improvements, asset management planning, and with corrective action plans



City of Birmingham

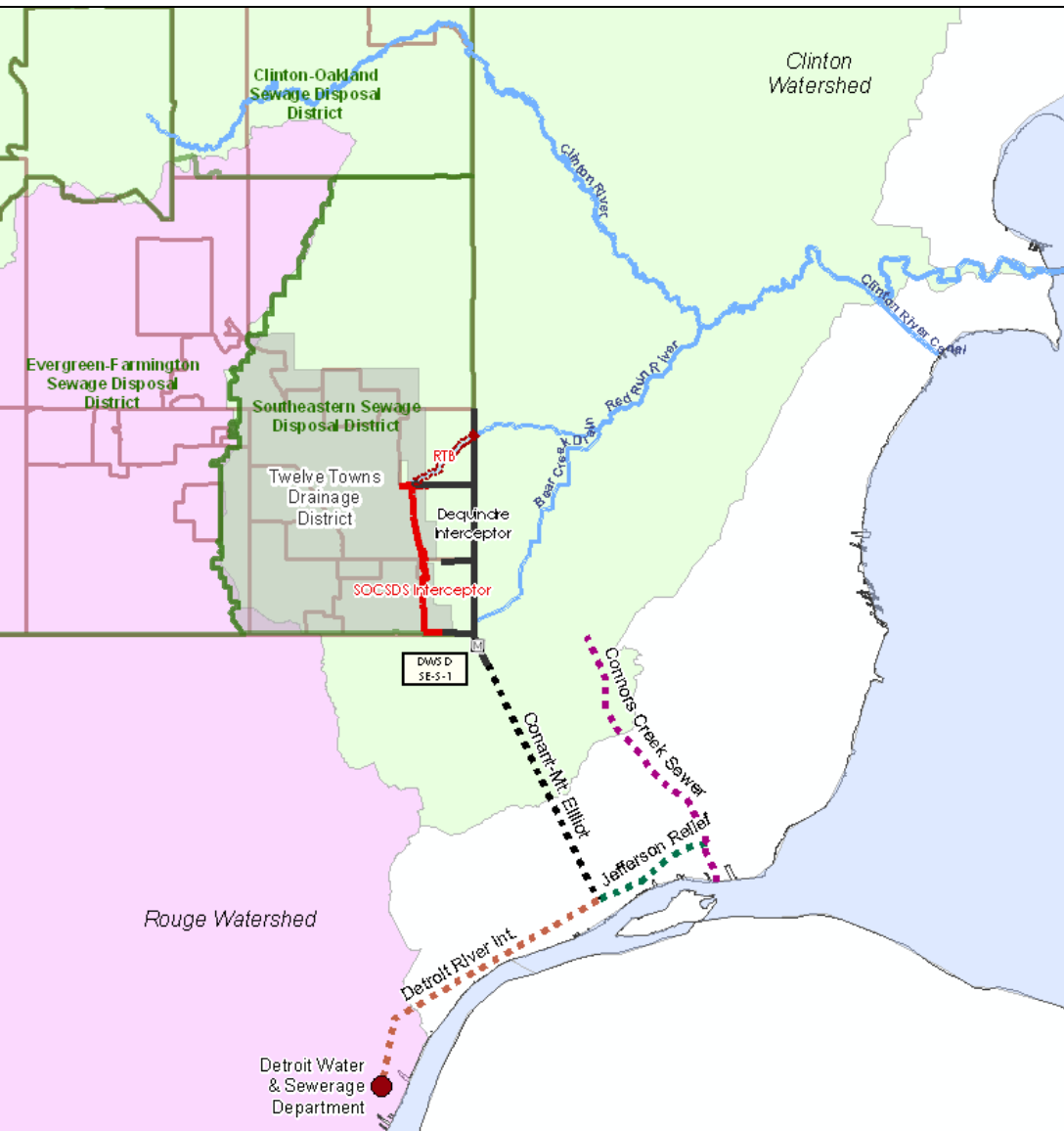
Combined and Separated Sewer Systems

- | | |
|------------------------------|-----------------------------|
| — Birmingham Sewer Main | — EFSDS Interceptor |
| — Acacia Park CSO/RTB | — North Arm Relief Drain |
| — Birmingham CSO/RTB | — Twelve Towns Relief Drain |
| — Bloomfield Village CSO/RTB | — Triple Drain |

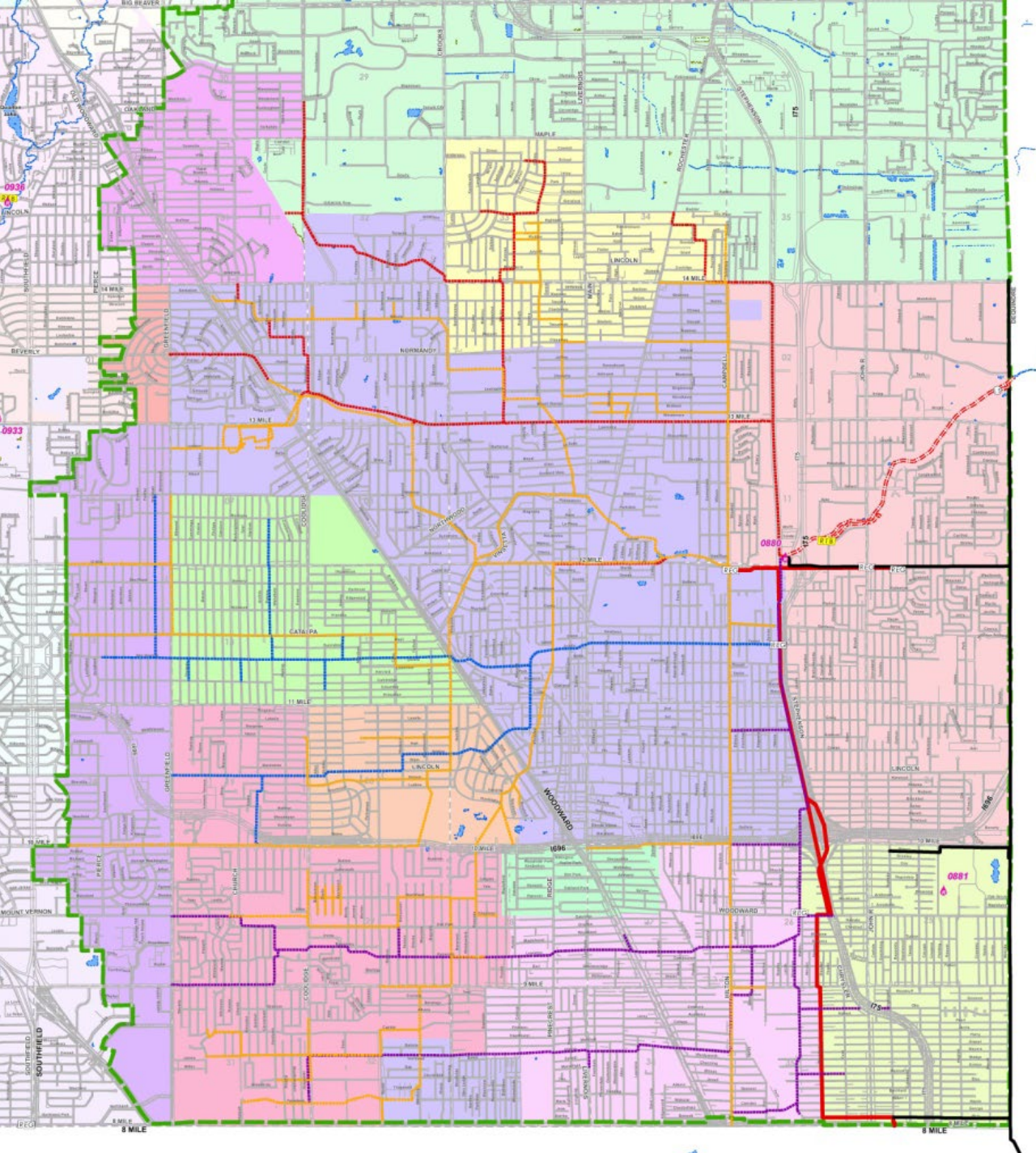
A wide-angle photograph of an industrial facility, likely a wastewater treatment plant. The scene is dominated by a long, elevated walkway with bright yellow safety railings that stretches from the foreground into the distance. Below the walkway, large concrete pillars support the structure, and a dark, wet floor reflects the overhead lights. In the background, various pieces of industrial machinery, including large metal frames and pipes, are visible. Two workers in light-colored shirts are walking on the yellow walkway. The walls are light-colored and feature several windows and electrical conduits. The overall atmosphere is industrial and functional.

George W. Kuhn Drainage District

Watersheds and GWK Drainage District



- Clinton River Watershed
- Combined Sewer System



GWK System Piping

- Dequindre Interceptor
- ⋮⋮⋮ GWK RTB
- SOCSDS Interceptor
- ⋮⋮⋮ Original Combined Drains
- ⋮⋮⋮ Twelve Towns Relief North Branch
- ⋮⋮⋮ Twelve Towns Relief Middle Branch
- ⋮⋮⋮ Twelve Towns Relief South Branch



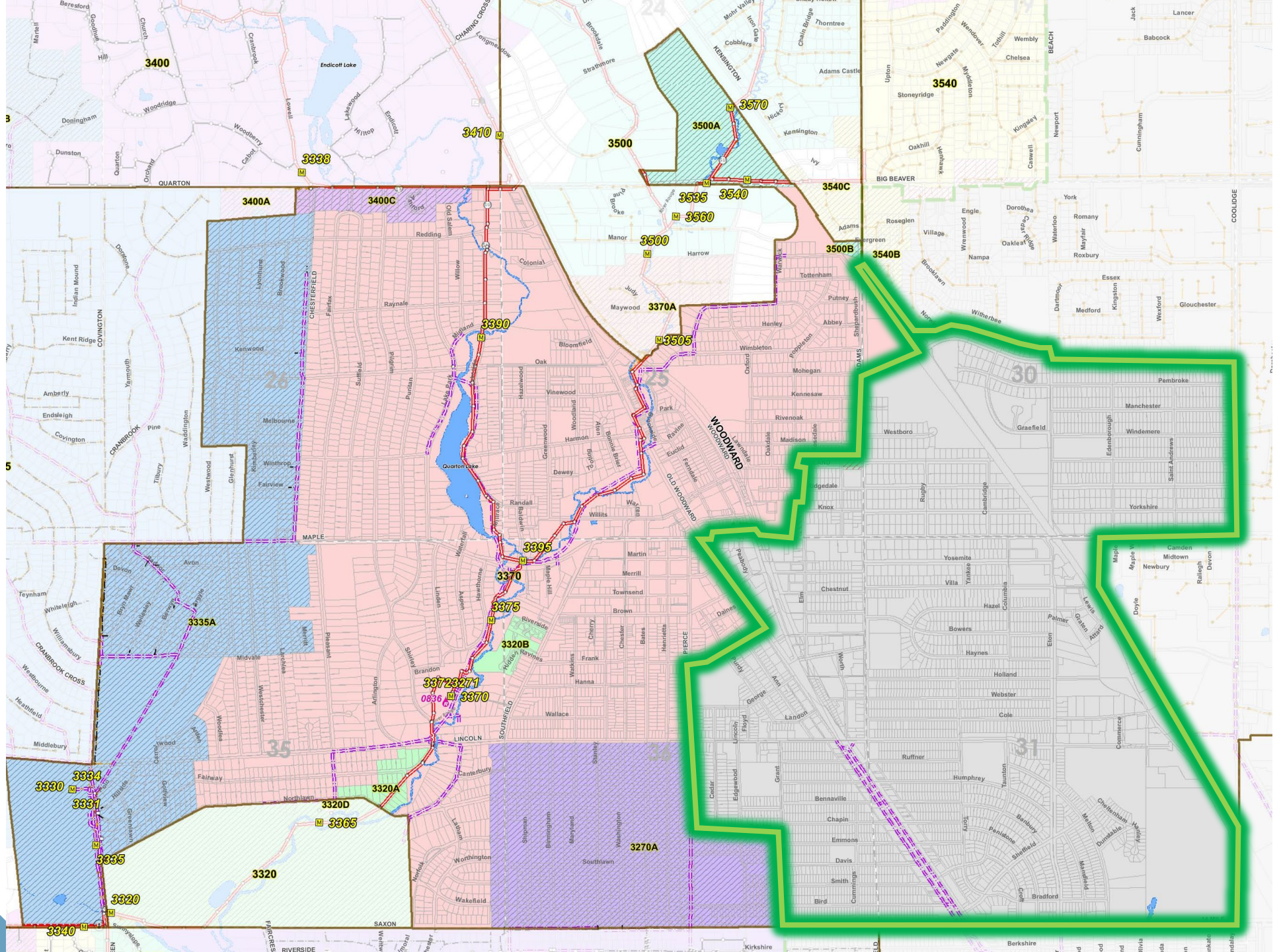
Cost Allocation



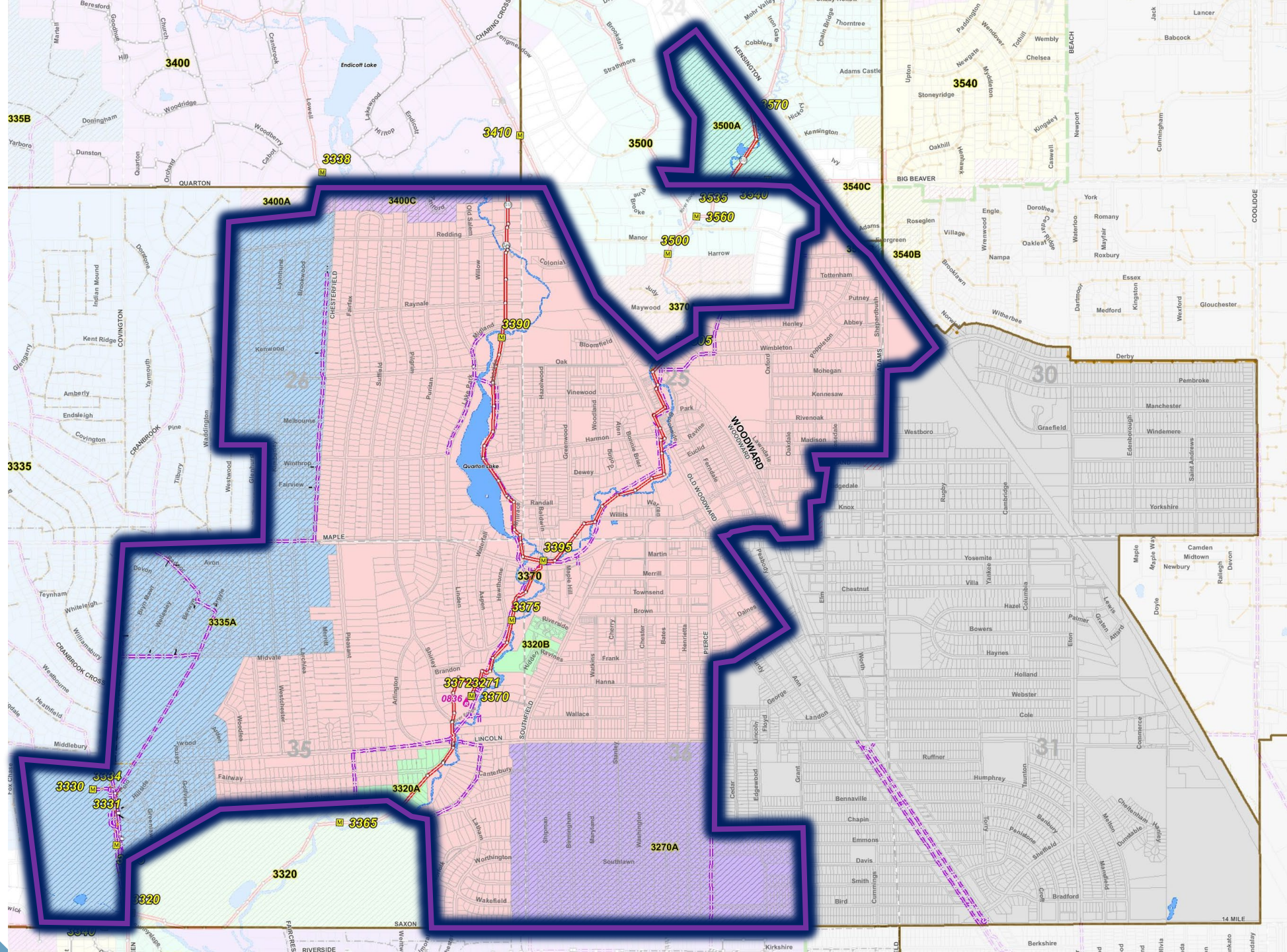
Community	Percentage
City of Birmingham	0.11%
Village of Franklin	0.21%
City of Keego Harbor	0.32%
City of Farmington	0.34%
City of Orchard Lake Village	0.37%
City of Auburn Hills	0.46%
Village of Bingham Farms	0.69%
City of Bloomfield Hills	1.44%
City of Lathrup Village	3.06%
City of Troy	3.15%
Village of Beverly Hills	5.75%
West Bloomfield Township	8.10%
Bloomfield Township	9.54%
City of Farmington Hills	28.29%
City of Southfield	38.17%



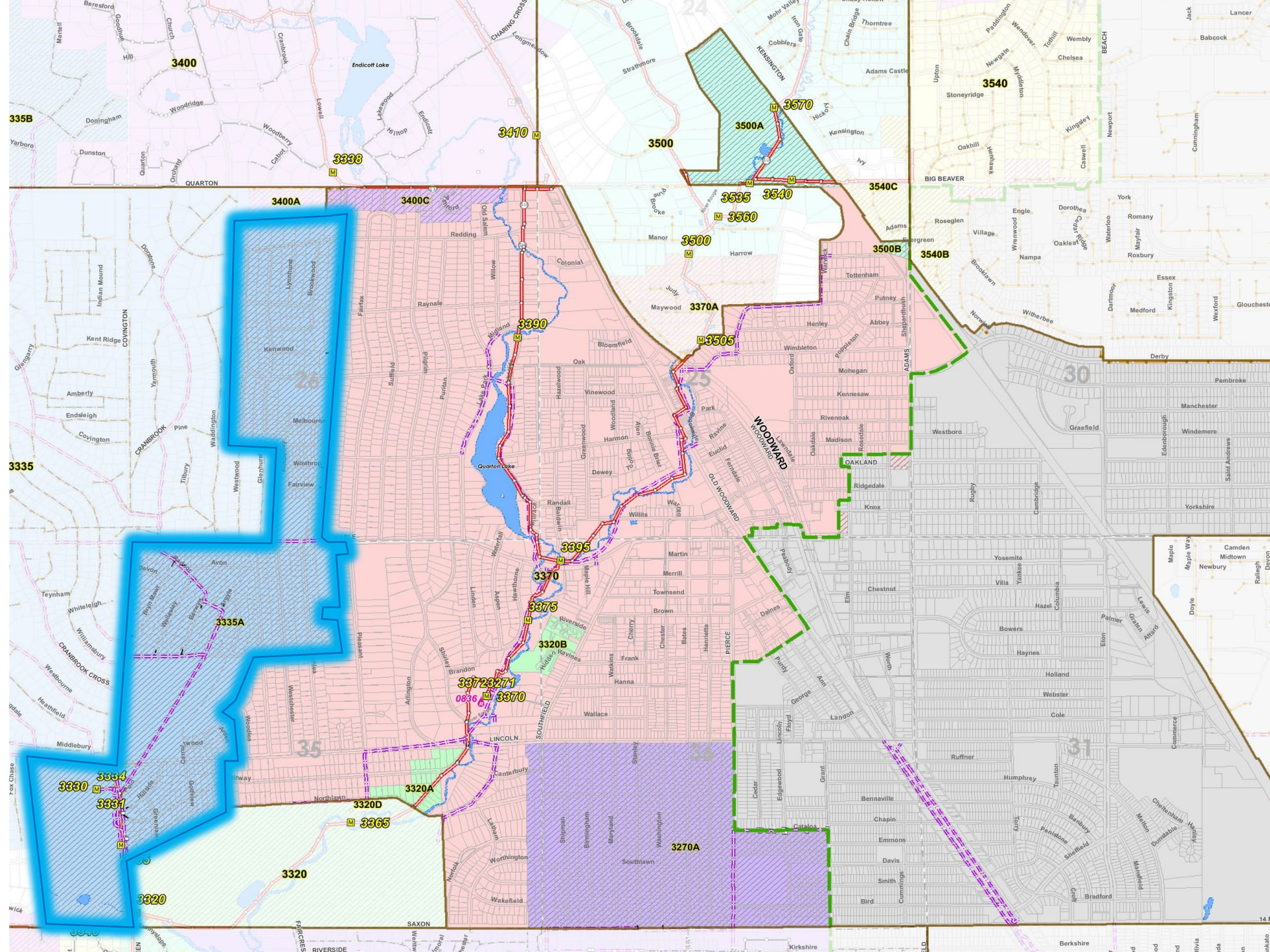
Evergreen- Farmington Sanitary District



Tributary to the Evergreen Farmington Sanitary District



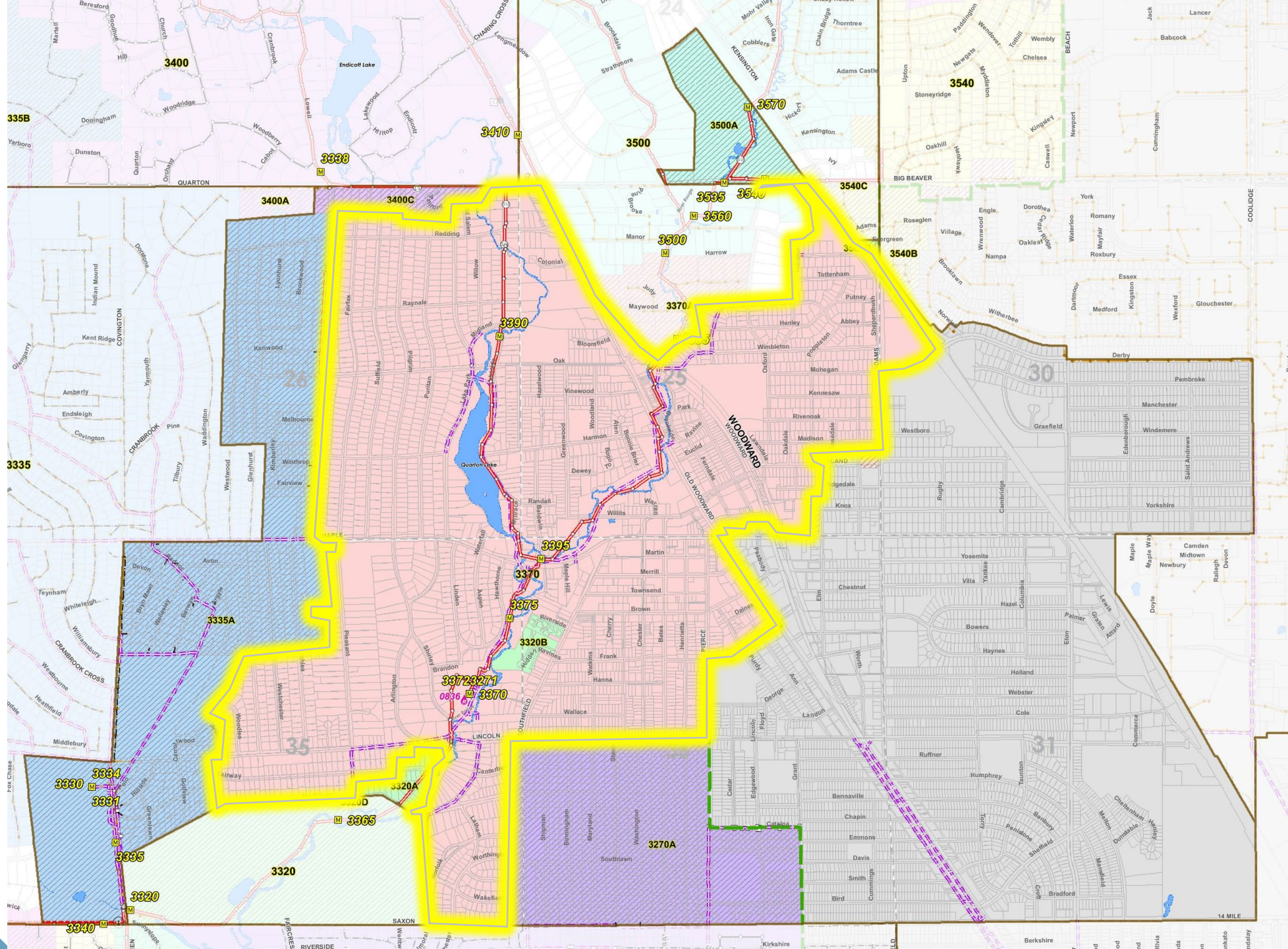
Tributary to the Bloomfield Village RTB



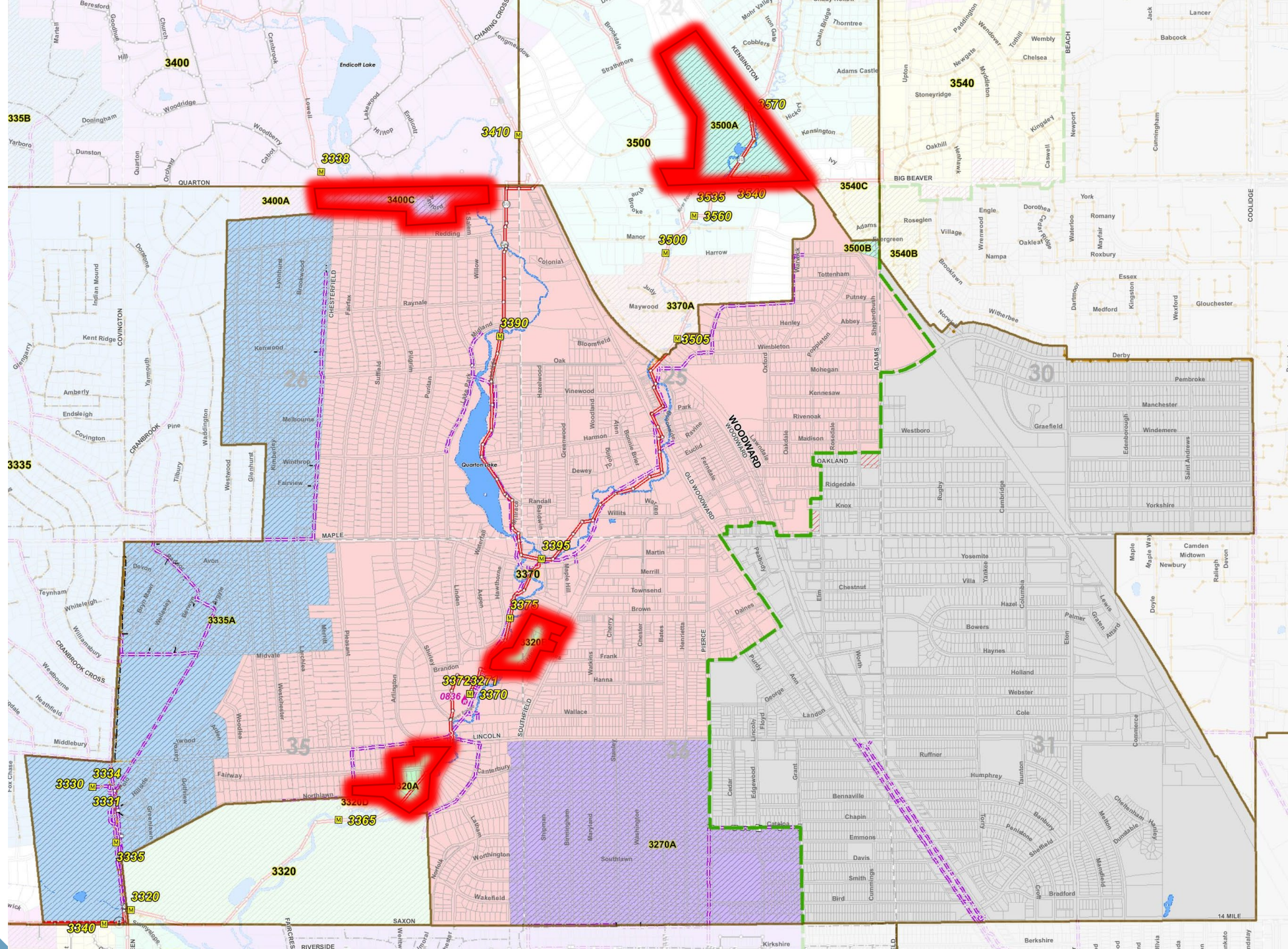
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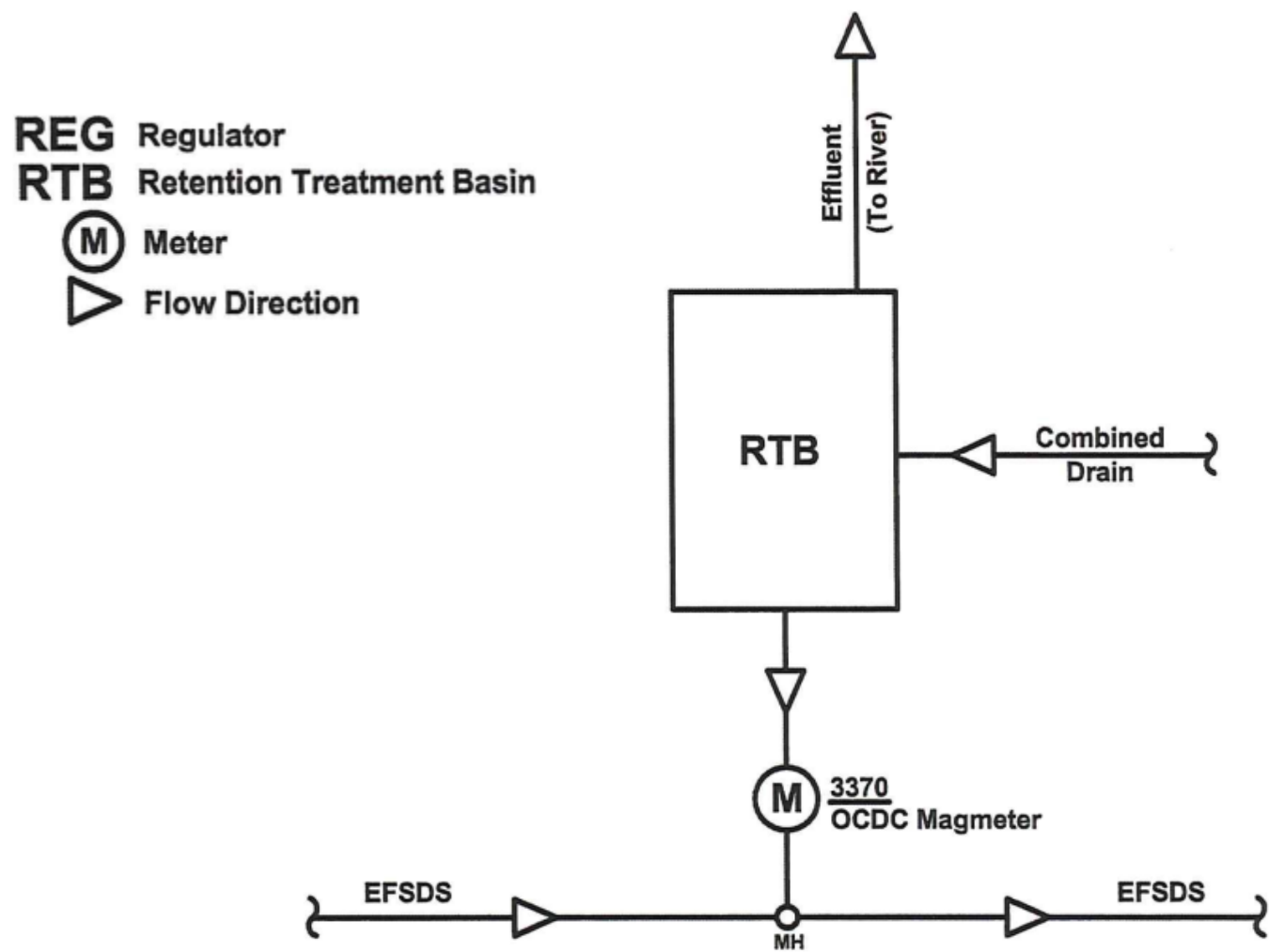
Tributary to the Birmingham Pump Station and RTB



Directly Tributary to the Evergreen Farmington Sanitary District



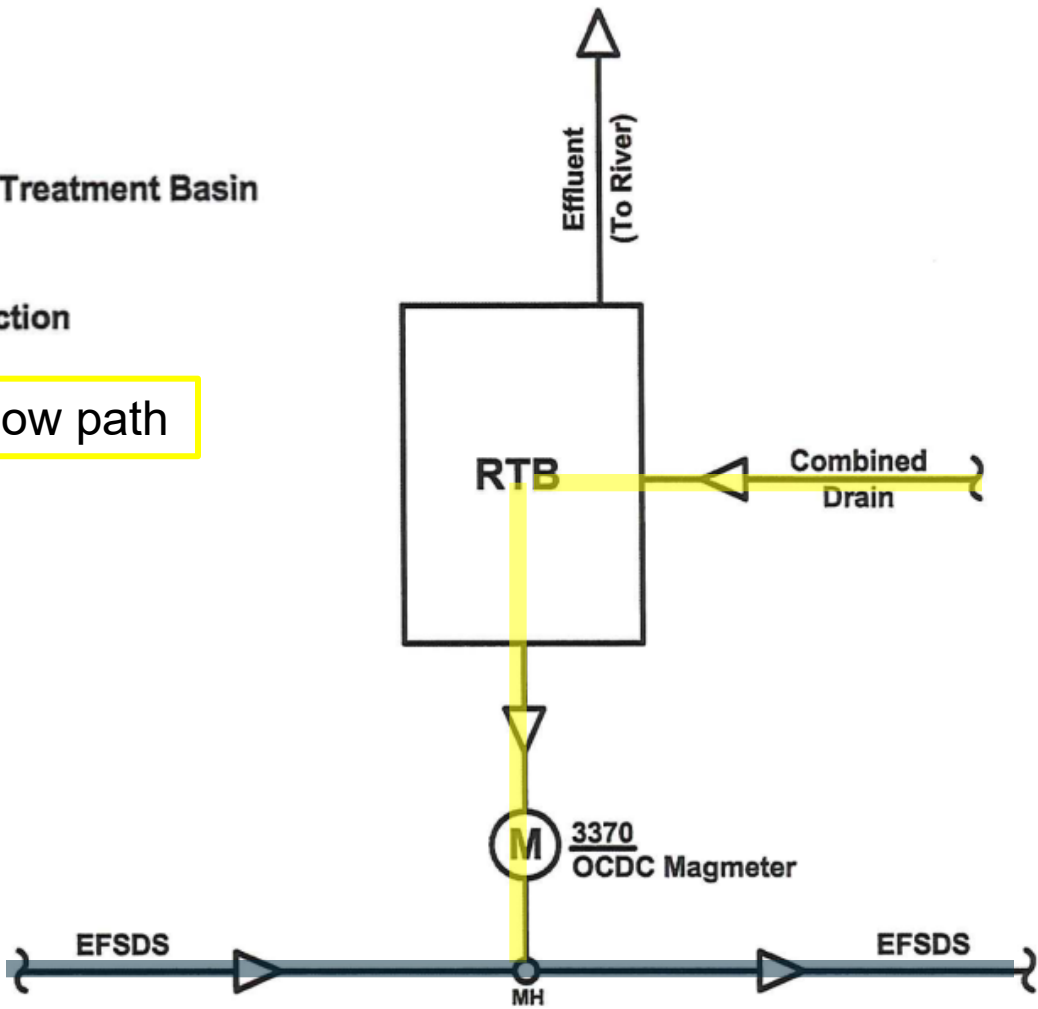
Birmingham RTB Schematic



Birmingham RTB Schematic

REG Regulator
RTB Retention Treatment Basin
(M) Meter
▷ Flow Direction

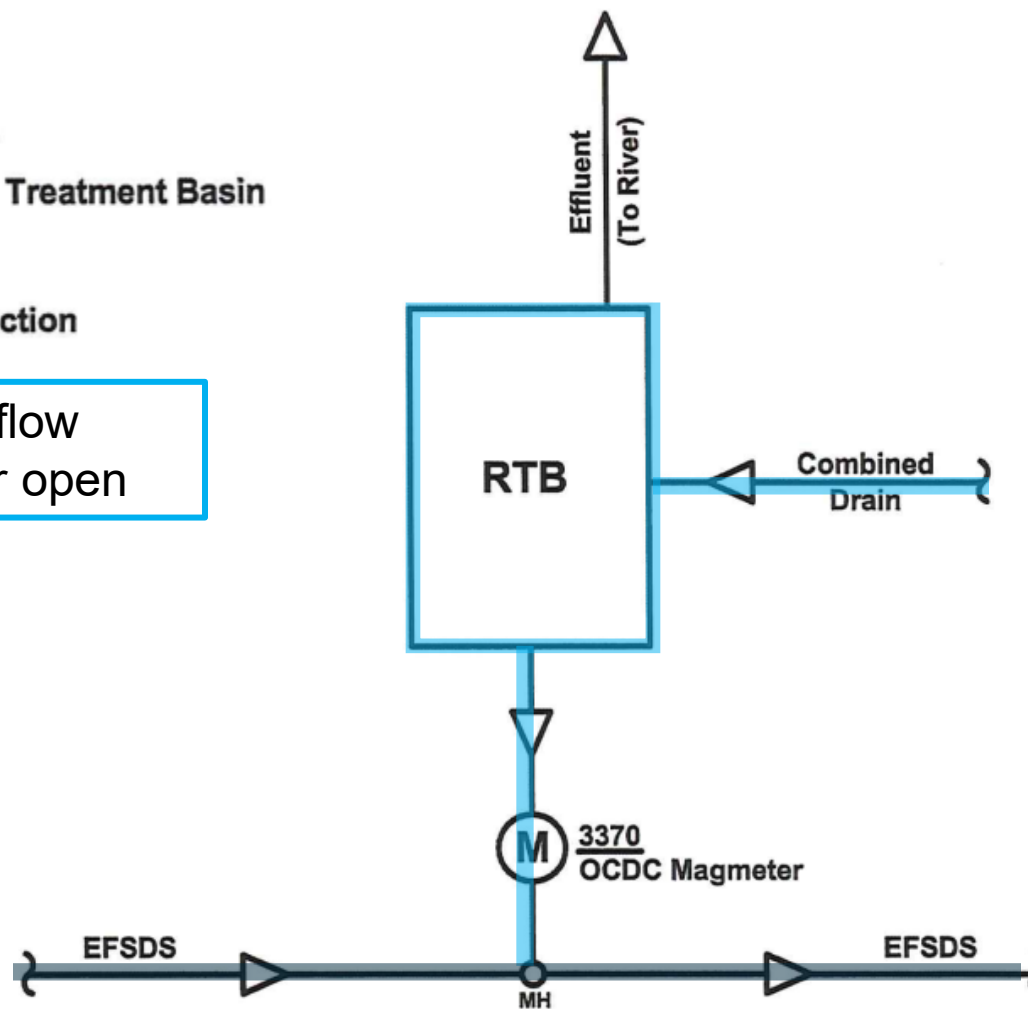
Dry weather flow path



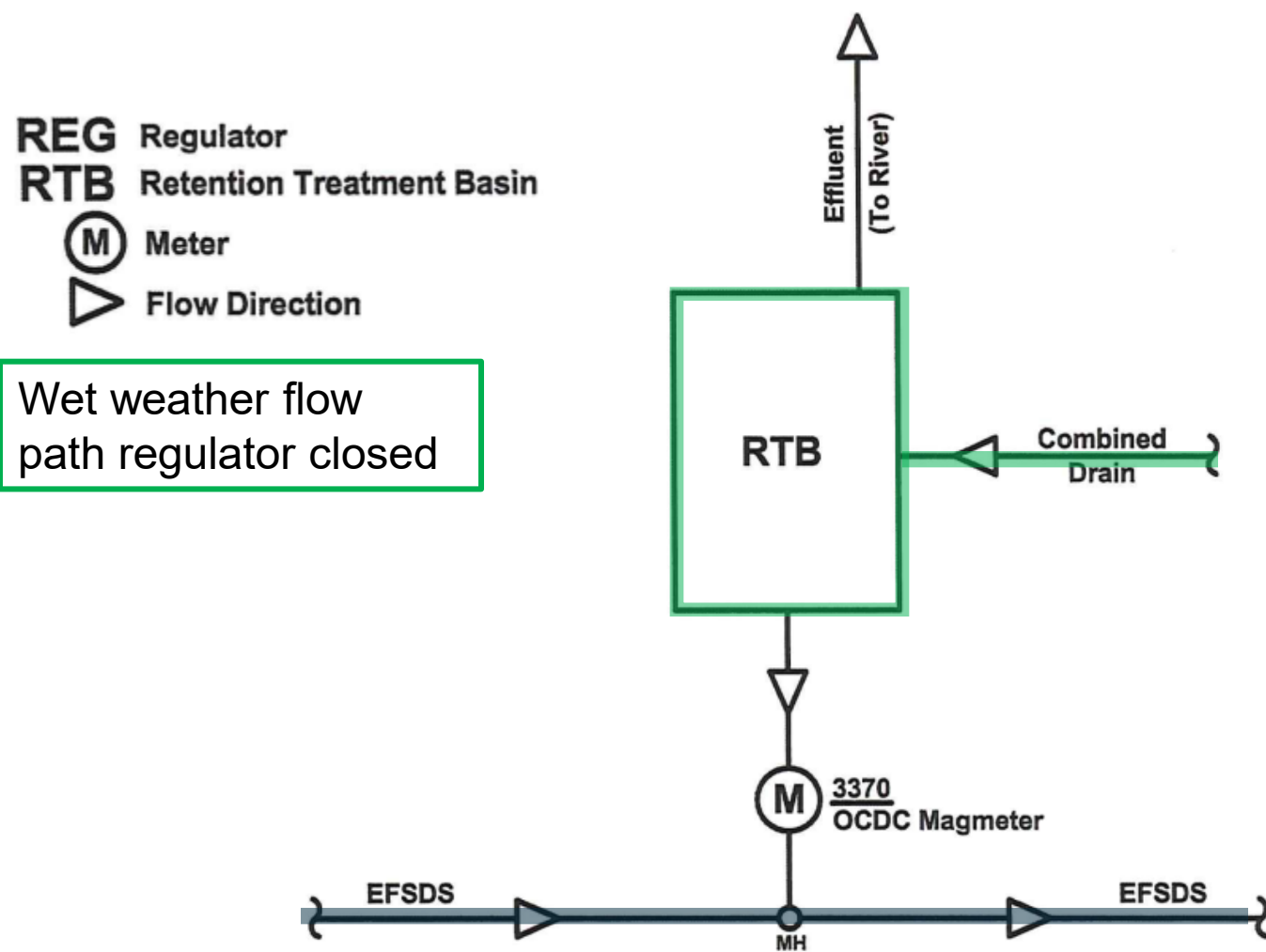
Birmingham RTB Schematic

REG Regulator
RTB Retention Treatment Basin
(M) Meter
▷ Flow Direction

Wet weather flow
path regulator open



Birmingham RTB Schematic



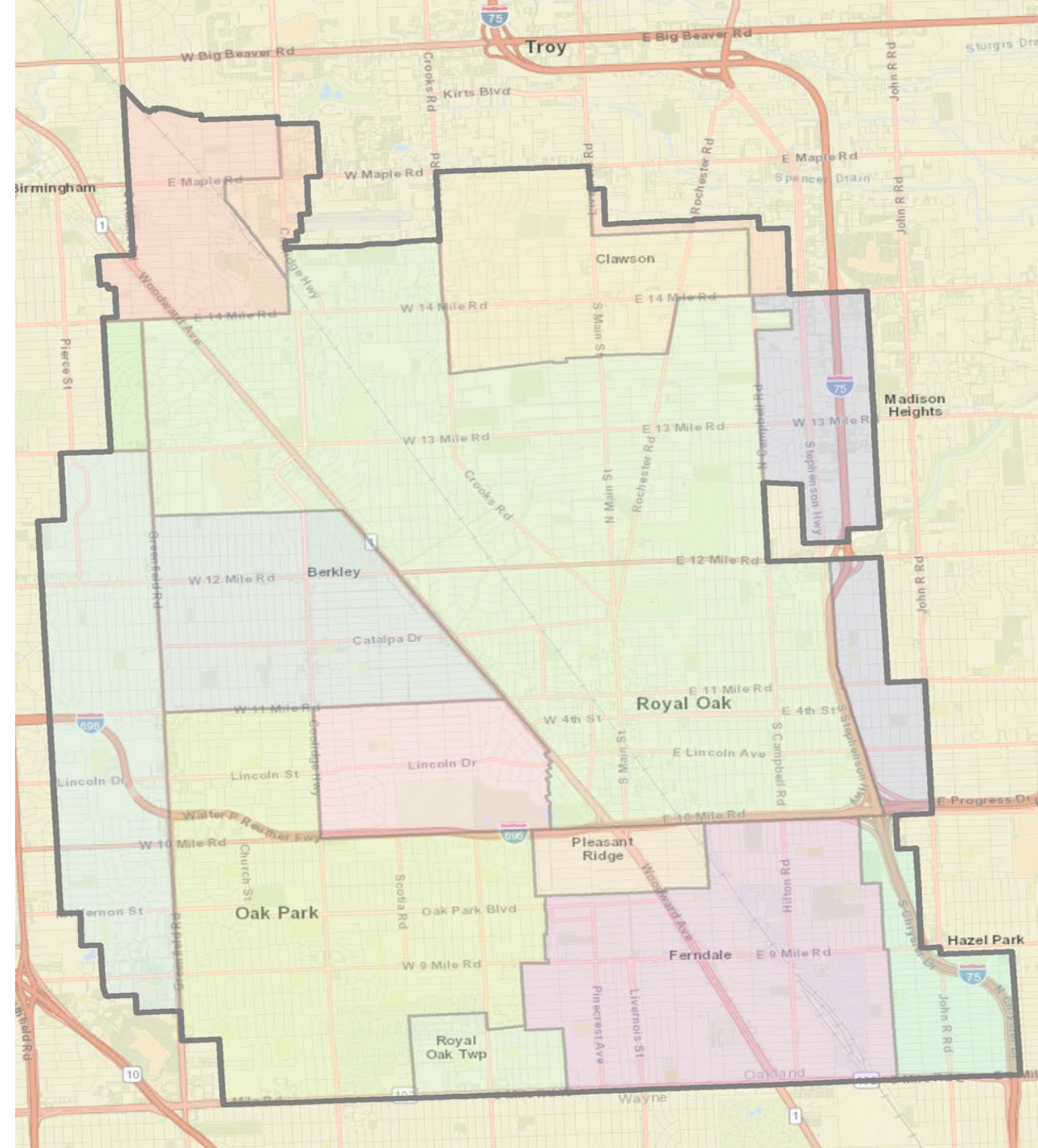


RainSmart Rebates Pilot

RainSmart Rebates Pilot

- The Rain Smart Rebates pilot program offered homeowners a rebate for installing green stormwater infrastructure (rain barrel, rain garden or tree) on their property.
- 14 communities in the George W. Kuhn Drain Drainage District.
- Up to \$2,000 rebate per property.

OakGov.com/RainSmart



2024 City of Birmingham Data



Total Eligible Applications: 52

Application Status	Count	Percentage
Accepted	25	48%
Pending	21	40%
Withdrew Prior to Acceptance	6	12%

“*Pending*” status indicates those homeowners who applied for an Equity Grant, were informed of a waitlist with limited funds, and chose to remain on the list rather than switch to the standard rebate process.

Applicant Interest in the Equity Grant

Equity Grant Interest	Count	Percentage
Yes	27	52%
No	25	48%

Equity Grant Recipients: 0

Completed a Site Assessment: 16

- Of those, 9 homeowners completed at least one installation.

Total Homeowner Rebates: \$3,171.78

Installed Projects: 21

2025 City of Birmingham Data



Total Eligible Applications: 37

Application Status	Count	Percentage
Accepted	23	62%
Pending	8	22%
Withdrew Prior to Acceptance	6	16%

“*Pending*” status indicates those homeowners who applied for an Equity Grant, were informed of a waitlist with limited funds, and chose to remain on the list rather than switch to the standard rebate process.

Applicant Interest in the Equity Grant

Equity Grant Interest	Count	Percentage
Yes	11	28%
No	29	73%

Equity Grant Recipients: 0

Completed a Site Assessment: 21

- Of those, 5 homeowners completed at least one installation.

Total Homeowner Rebates: \$900.75

Installed Projects: 7

2026 Earth Day Event



- Oakland County Water Resources, City of Birmingham and Friends of the Rouge beginning to plan a public community engagement event
- Planning for Earth Day Wednesday April 22, 2026
- Showcase the Birmingham Retention Treatment Basin
- Public Education

Thank You

Jim Nash

Water Resources Commissioner

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Jim Nash



City of Birmingham Infrastructure

FY 2020-2025

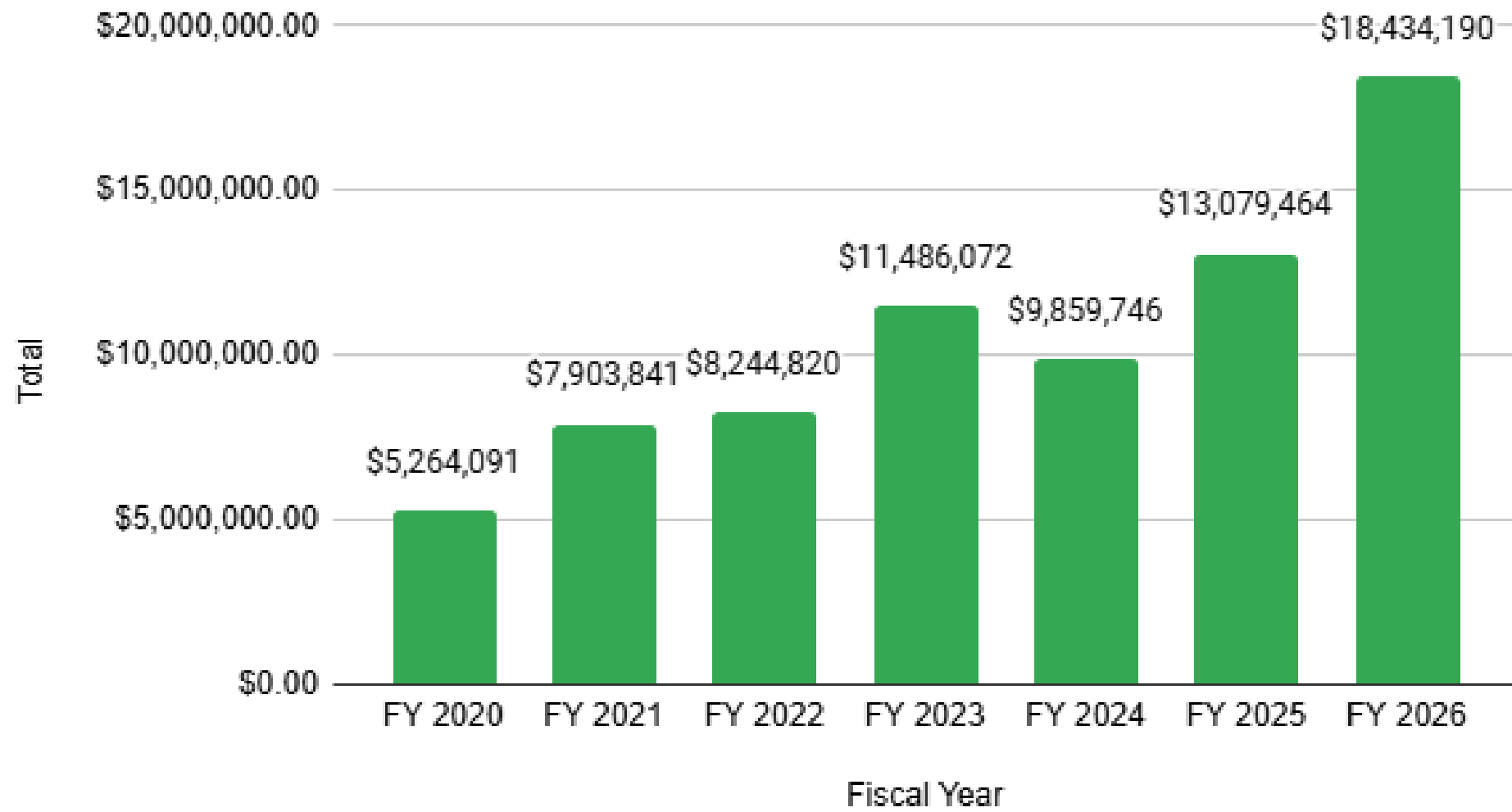
City Manager's Office
& Engineering

Presented by: Melissa
Fairbairn & Melissa Coatta

Date: September 8, 2025



Total Infrastructure Expenditures FY 2020-2026



Infrastructure Expenditures FY 2020-2026

