



# CITY OF WHITEWATER WASTEWATER UTILITY

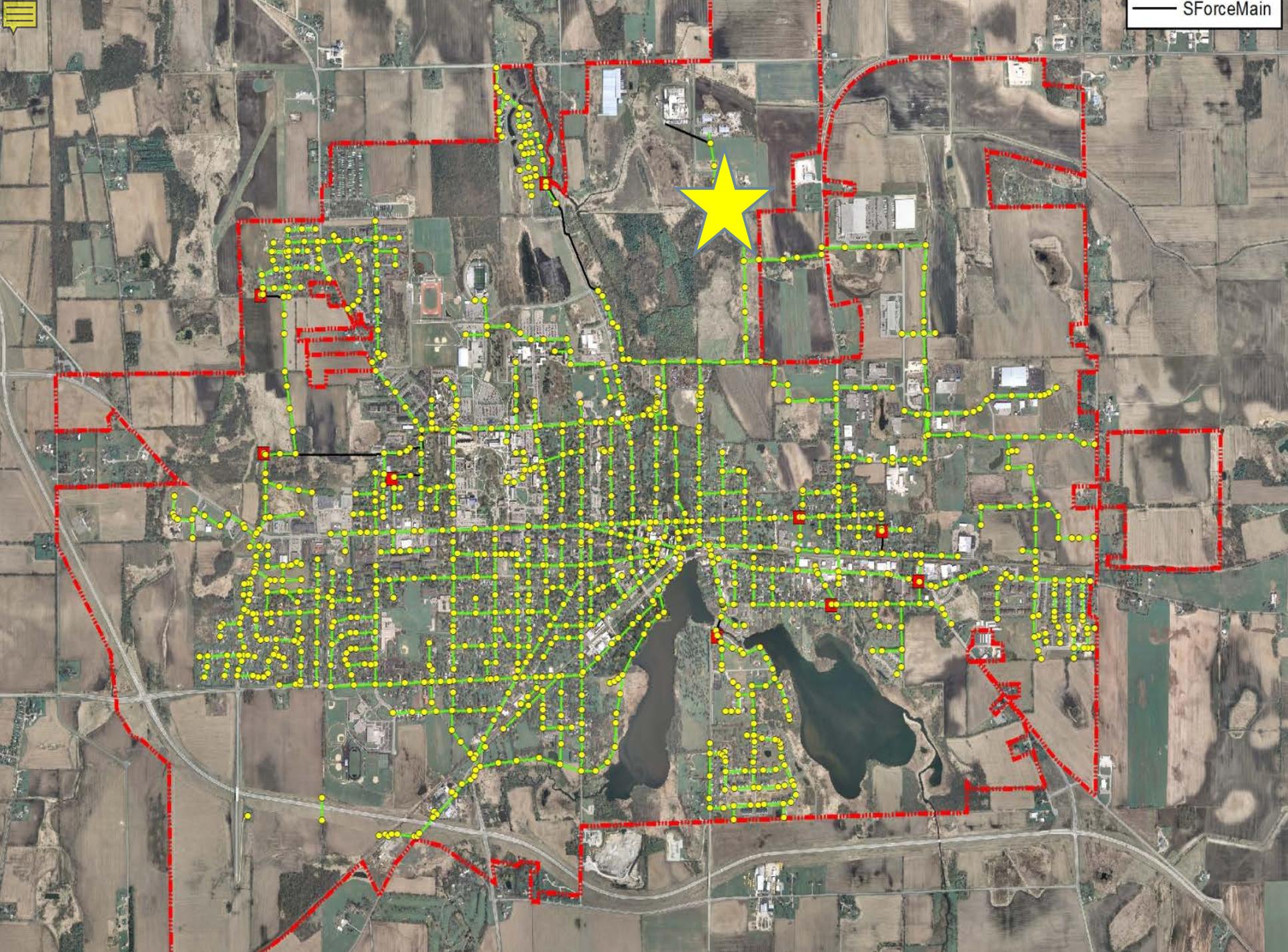
Looking to the future...

3.16.15



# What do we do?

- Collect wastewater
- Treat inorganics & nutrients
- Return clean water to the watershed
- Do NOT treat stormwater







# Background

- Current facility built in 1982
- Preliminary Building - 1997
- Facility Planning - May 2008
- ARRA Project - 2009
- Facility Plan revisited - 2013



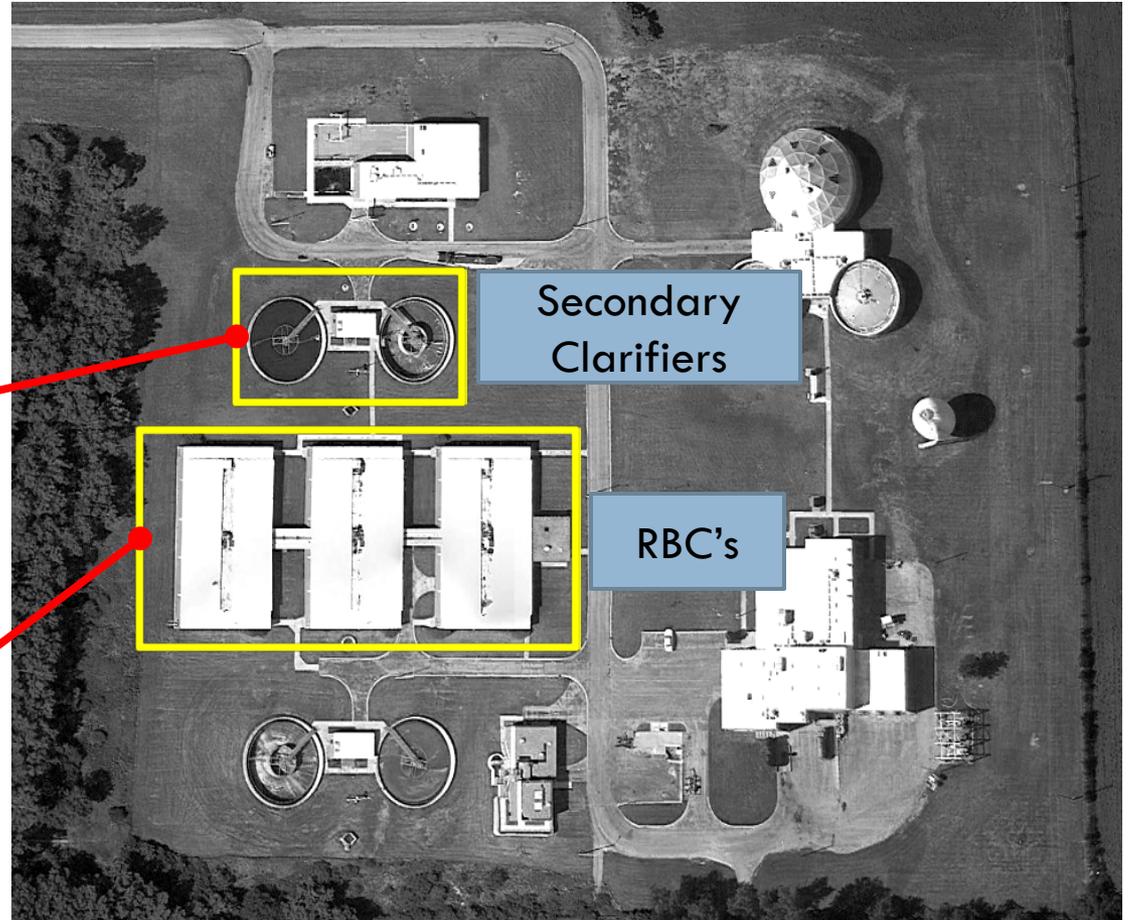
# Main Objectives...

- Aging infrastructure
- ID Safety and code requirements
- Hydraulic bottlenecks
- Secondary Treatment
- Digester capacity



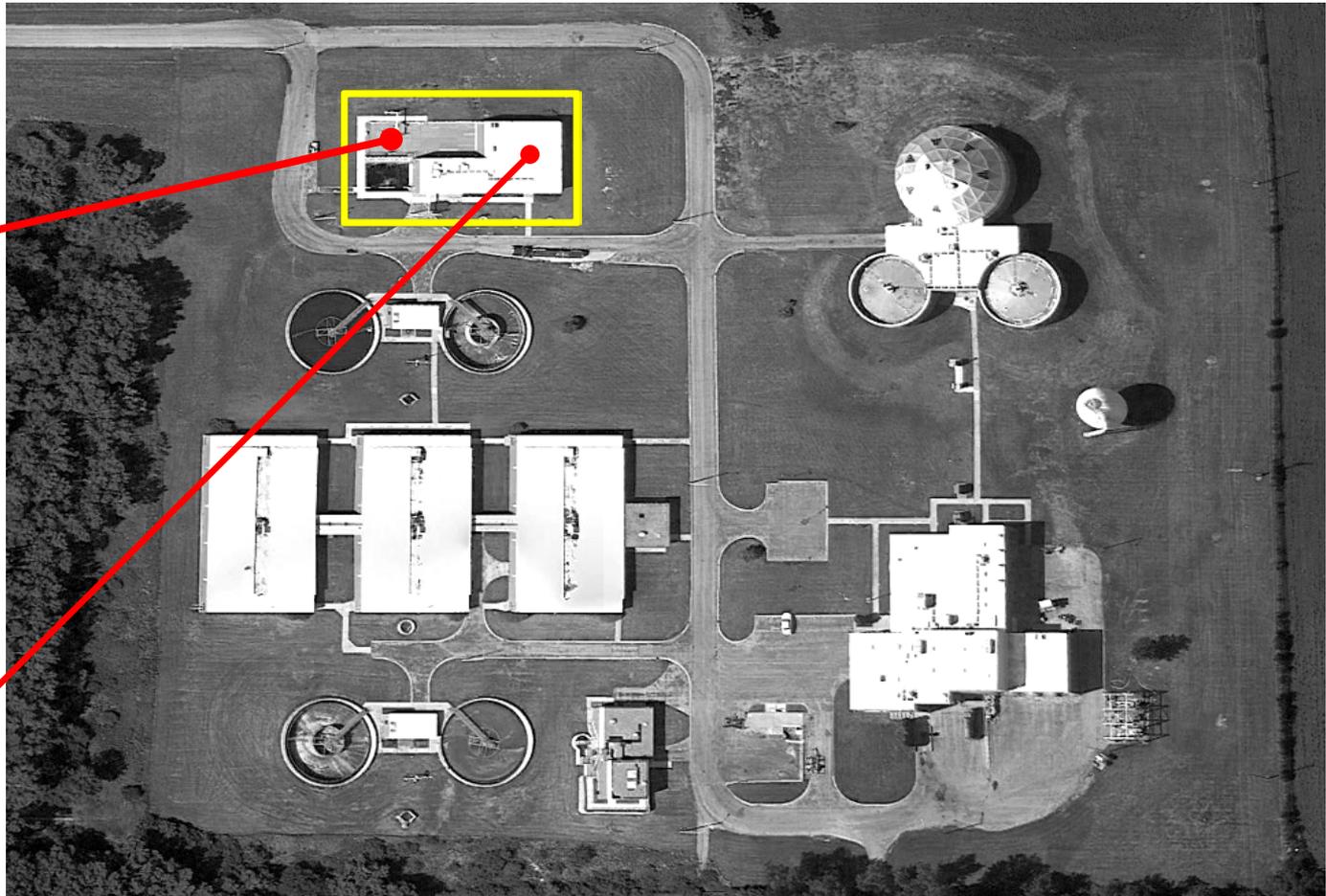


# Secondary Treatment





# Filtration Building



# Liquid Treatment Capital Cost

Project Element	Total Project Cost
Biological Treatment System: Activated Sludge	\$10.3M
Electrical Systems	\$3.5 M
Fire and Safety Guidelines	\$0.4 M
Buildings: HVAC and Lab QC	\$0.5M
Buildings: Lab Expansion and Space Use	\$0.6M
Site: Aging Site Infrastructure	\$0.9M
Site: Hydraulics, Controls, and Aging Equipment	\$2.5M
<b>Total Project</b>	<b>\$18.7M</b>

No Digestion Complex Improvements





# Solids Treatment Capital Cost

## □ Recommended upgrades to digestion complex

Biogas Boilers	\$174,000	}	Recommended for energy savings and increased revenue
Hauled Waste Receiving Station	\$299,000		
Leaking pipe penetrations	\$1,300	}	Essential for safety and code compliance
Repair floor decking	\$13,000		
Electrical MCC and duct bank repair	\$172,000		
NFPA 820 code compliance	\$607,000	}	Recommended for process performance and flexibility
Post Digestion Thickening	\$294,000		
Passive overflow between digesters	\$41,000		
Digester mixing modifications	\$450,000		
<b>Total Estimated Upgrade Cost</b>	<b>\$2,052,000</b>		



# Total WWTF Project Cost

Whitewater  
WWTF

\$20.7M

Liquid  
Treatment

Support  
Facilities

Solids  
Treatment

Donohue Facility Plan

- Address Age
- Address Phosphorus

\$18.7M

TM 4

- Utilize Biogas
- Address Age

\$2.0M





# Financing

- Total estimated project cost \$20.7M
- Impact on average resident
  - ▣ Current \$30/mo.
  - ▣ Proposed \$45/mo.
- Impact to WUSD
  - ▣ Current \$30,600 /yr.
  - ▣ Current calculation \$52,000/yr.
  - ▣ Proposed calculation \$43,000/yr.
- Timeline