

Water Reuse in Ohio

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Ohio EPA



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Outline



- Background
- Project – Henry Cooper Farms
- Re-use in Ohio moving forward



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Ohio Background



- Water rich?
- We're new to water re-use



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Cooper Farms

- Turkey processing facility
- Main employer for St. Henry
- 70% of villages water usage
- DAF pretreatment prior to discharging to sanitary sewer
- Water conservation efforts
 - 8.2 million gallons per year water savings since 2022



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Village of St Henry

Water

- 10 Groundwater Wells
- 1.4 MGD design capacity
- 850,000 gpd average flow
- Draft aeration, sand filters, and chlorination

Wastewater

- Lagoon System
 - 4 lagoons totaling 44 acres
 - Floating aeration units
 - Ferric chloride addition for P removal
- 0.9 MGD capacity
- 2.4 MGD peak design flow



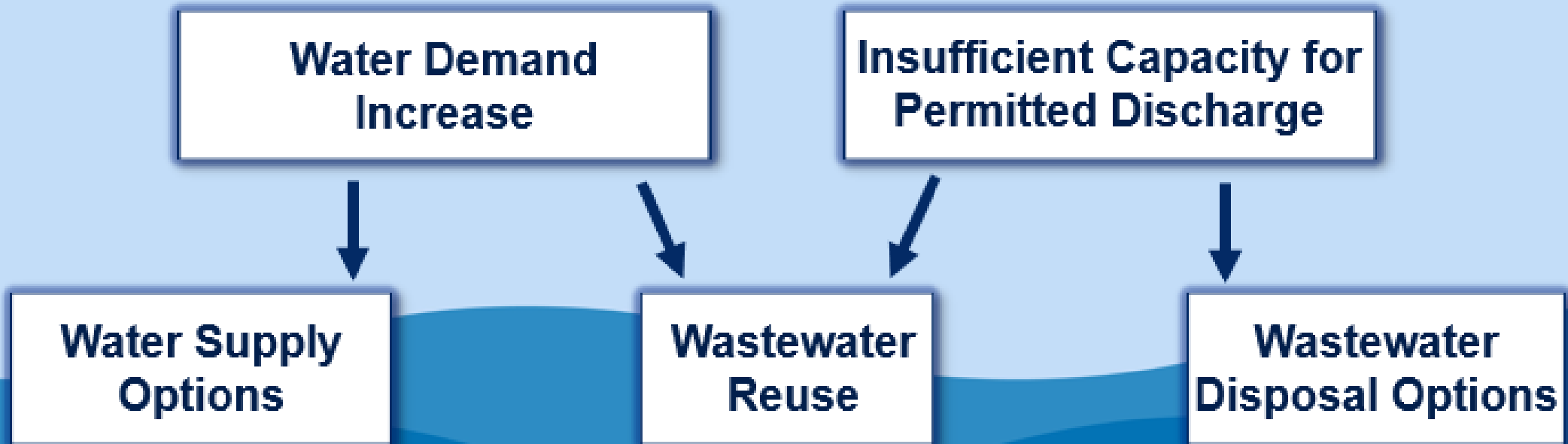
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St Henry Capacity Issues

- ADDF of 0.87 MGD but treating 0.95 MGD, not operating as controlled discharge.
- Spring 2020 Village submitted NPDES modification and antideg request to expand to 1.2 MGD and continuous discharge.
- Approved TMDL for Coldwater Creek includes the assumption that St. Henry is a controlled discharge.
- Stream sampling completed in summer 2022 identified continued impairments

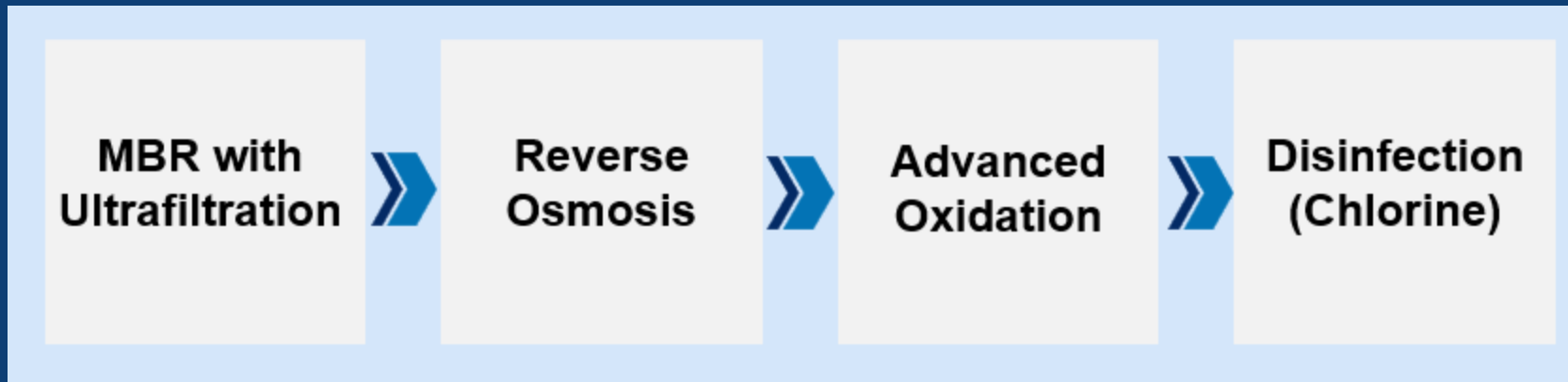


Alternative Solutions



Water re-use

- Need to treat to potable standards
 - Won't be used as potable
 - Ohio doesn't have standards



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- Ohio Water Resources Center – OSU
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Early Goals of the Committees Include:

- *Common definitions of terms*
- *Evaluate what other states have enacted*
- *Participate in national conversations*

Goal is to have an Ohio Framework by end of 2025!



Committee	Name	Organization	Role
Financial	Michael Frommer Jamie Decker	CDM Smith Hazen & Sawyer	Chair Vice-Chair
Non-Potable	Matt Kallevant Erik McPeck	Black & Veatch Delaware County Regional Sewer District	Chair Vice-Chair
Onsite	Brian Tornos Grace McInerney	Burgess and Niple Columbus – Division of Water	Chair Vice Chair
Outreach	Sierra McCreary Kyle Schwieterman	Black & Veatch American Structurepoint	Chair Vice-Chair
Potable	Johnathon Sheets Matt Steele	CDM Smith Columbus- Division of Water	Chair Vice-Chair
Regulatory	Scott Alpert Susan Brownstein	Hazen & Sawyer CDM Smith	Chair Vice-Chair

State Specific Plan for Ohio



Action Plan



Coming Soon!



Questions?



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