



Southwater Municipal Utility Authority

Meeting minutes

Tuesday, October 20, 2026

9:00 a.m.

at

**Algonac City Hall
805 St. Clair River Dr.
Algonac MI 48001**

Meeting Called to Order at 9:00 am

Roll Call Algonac, Ira, Clay

Public Comment - None

Approved Minutes

**Motion by Clay supported by Algonac to approve the minutes of
September 15, 2026**

Motion Approved

**Motion by Clay supported by Algonac to amend the agenda, adding:
item d. to approve auto pay for the monthly Blue Cross Blue Shield
Health Insurance premium bill. And e. To move the next meeting
date to November 24, 2026 at 9:00 am in Algonac City Hall.**

Motion Approved

New Business

a. Receive and File Monthly Department Report by Brian Roy

Motion by Algonac supported by Clay to approve the Receive and File
Monthly Department Report

Motion Approved

b. Engineer update

Motion by Ira supported by Algonac to approve the engineer update by
Erin. See attachment

Motion Approved

c. Discuss Audit

Discussion on finishing the audit. Needs to be finished before bonding can
take place.

d. To approve auto pay for the monthly Blue Cross Blue Shield Health Insurance premium bill.

Motion by Clay supported by Ira to approve auto pay for the monthly Blue Cross Blue Shield Health Insurance premium bill.

Motion Approved

e. To move the next meeting date to November 24, 2026 at 9:00 am in Algonac City Hall.

Motion by Clay supported by Algonac to move the next meeting date to November 24, 2026 at 9:00 am in Algonac City Hall.

Motion Approved

Accounts Payable

Motion by Clay, supported by Algonac to pay the Accounts Payables of \$100,280.79

Motion Approved

Board Comments

Talked about closing on the property for DPW and SMUA

Adjournment at 9:56am

***** Next Meeting: November 24, 2026 *****

This notice is posted in compliance with PA267 of 1976 as amended (Open Meetings Act), MCLA 41.72a (2) (3) and the Americans with Disabilities Act.

Individuals with disabilities requiring auxiliary aids or services should contact the SMUA Secretary at 451 State St. Algonac, Michigan 48001 or (810) 794-9303

Southwater Municipal Utility Authority WWTP Improvements

Engineering Update
October 20, 2026

Erin Szczegieliak, PE



Outline

- Hydraulic Modeling
- Preliminary Design tasks remaining
- Design Updates for Project
- Contract Details & Coord.
- Schedule

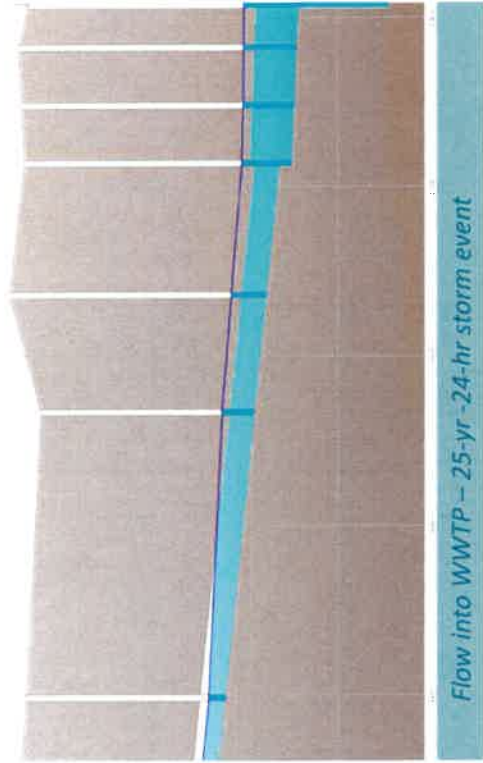
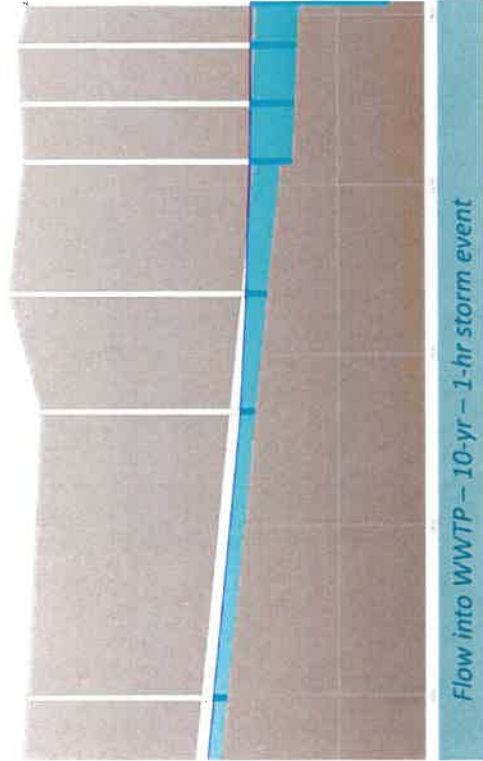


Hydraulic Model



Hydraulic Model Network through Algonac

Hydraulic Model Development



Hydraulic Model Results & Retention Tank Sizing

- No large rain event (3 to 4") during 2026 metering. Working to calibrate the model with historical data from 2024.
- Next steps: run model for a Design Storm (defined by EGLE: 25-year, 24-hour storm, 4.1 inches of rain)
- Anticipating Two retention tanks, just under 1M gallons each
- Duplex pump station, 2650 gpm each pump

Hydraulic Modeling Report

- Confirm the collection system can transport design storm to the WWTP
- Final volume and pump capacity for Retention Tank System
- Report needed by EGLE to confirm appropriate sizing, based on WWTP treatment capacity
- Will also identify priority areas for improvements in collection system



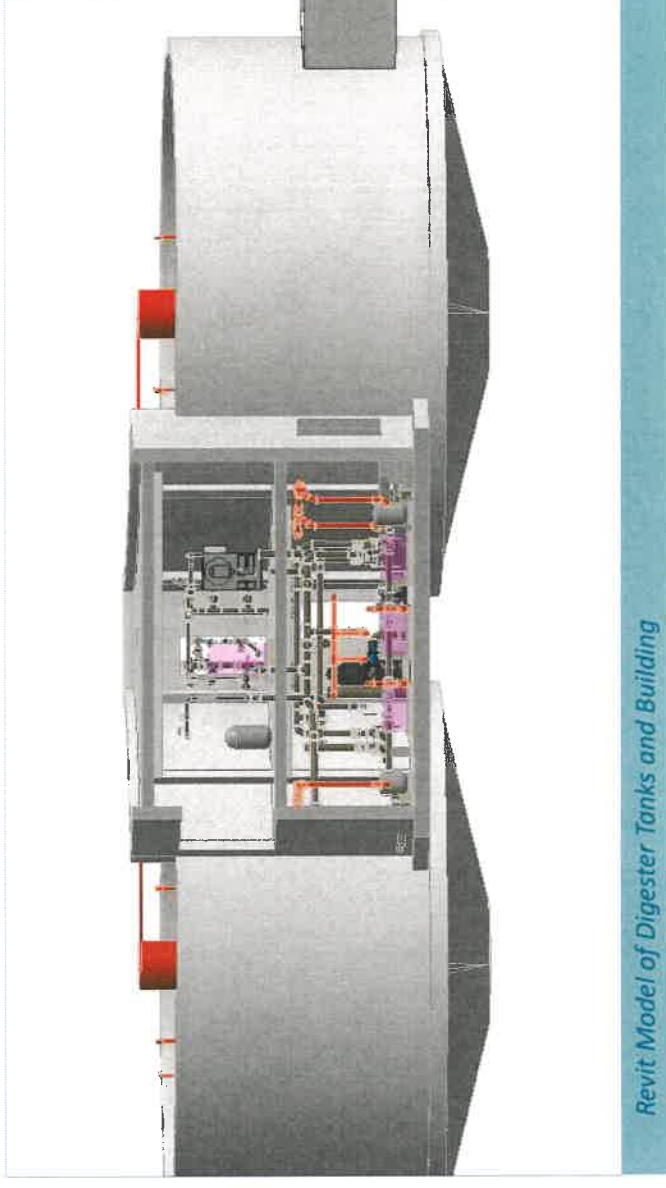
Digester Tank Insulation

Preliminary Design Task Remaining

- Hazardous Material Sampling
 - Scheduled for November
 - Asbestos Containing Materials
 - Lead Paint
 - PCBs in Transformer oil

Final Design – 60% Milestone

- 3D design model of buildings, piping and equipment layout
- Drawing set: 88 sheets drafted
- List of specifications



Revit Model of Digester Tanks and Building

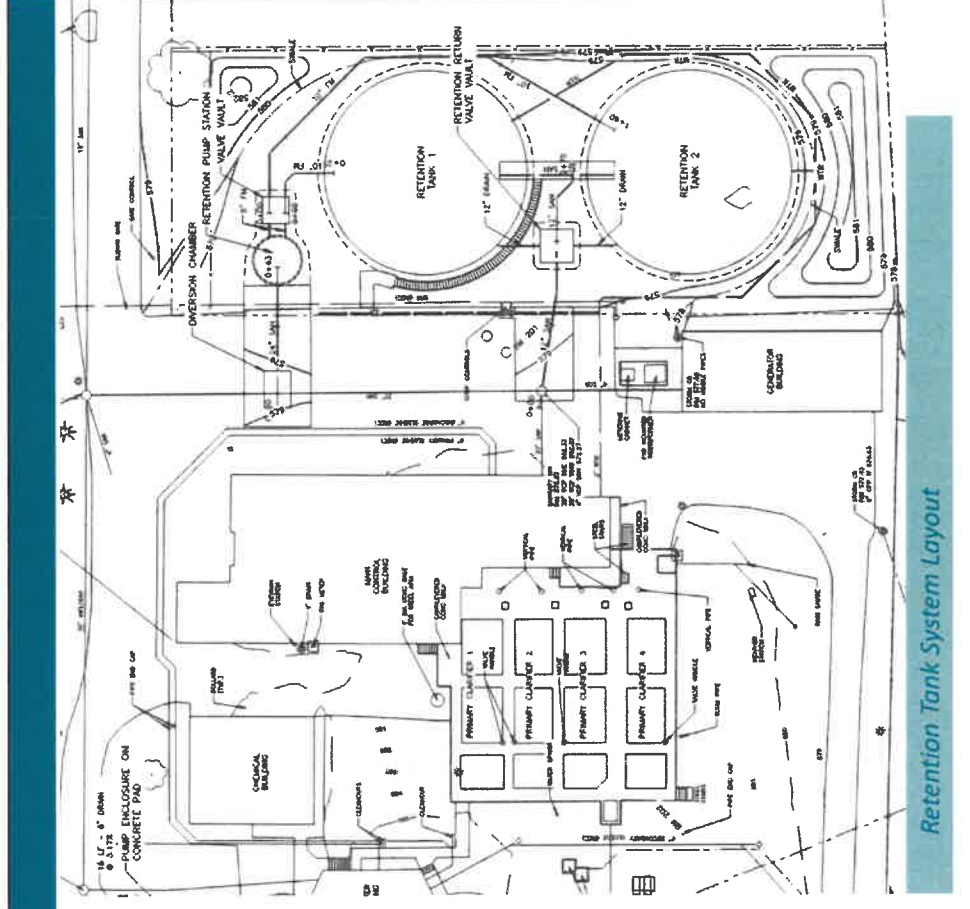


DPW Property

- After property closing, Baseline Environmental Assessment report will be finalized and filed with State
- During construction:
 - Contaminated soil will be kept onsite
 - Groundwater dewatering will be treated through WWTP

Retention Tank System

- EGLE is requiring more sophisticated flushing system
- Need new water service line to support flow and pressure
- Old water piping broke in past



Retention Tank System Layout

Flow Meters

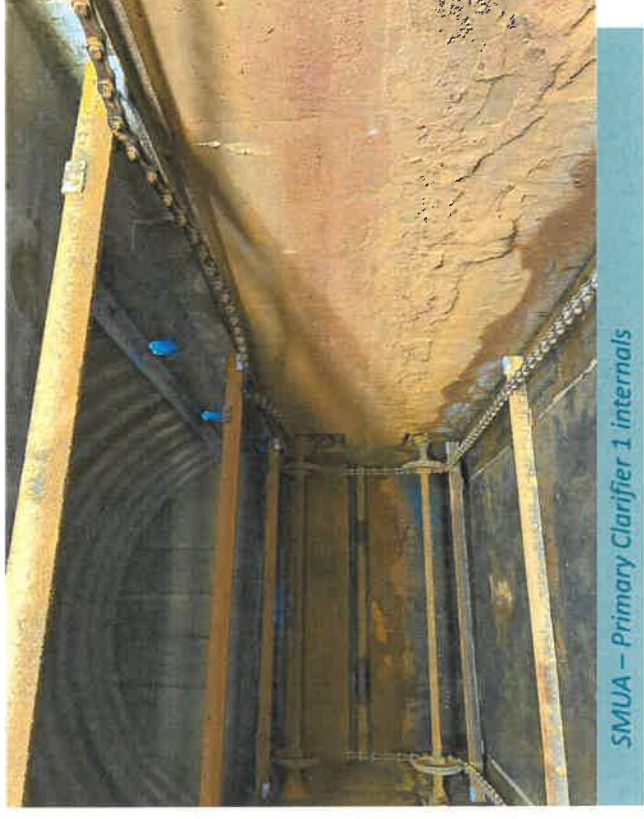
- Clay-Ira 16" Meter
- Algonac 14" Meter
- WWTP Influent Meter
- WWTP Effluent Meter
- Secondary sludge meter



Algonac Flow Meter

Primary Clarifiers

- Completed concrete tank inspections (2 of 4 tanks)
- Concrete in relatively good shape, a few concrete repairs
- Metal is corroded, will be replaced



SMUA – Primary Clarifier 1 Internals



Secondary Clarifiers

- Completed tank inspection (1 of 2 tanks)
- Concrete in relatively good shape
- Will add guardrail for safety around Tank 2

Ferric Chloride System

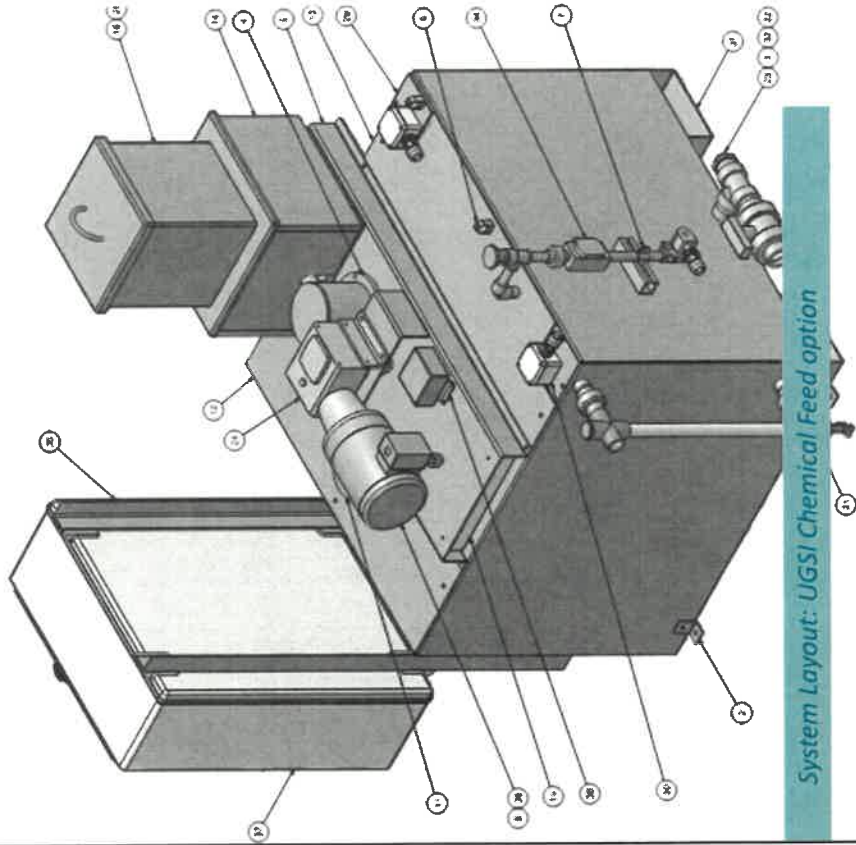
- New Pumps with improved leak detection
- New controls in main building



Ferric pumps between bulk storage tanks

Polymer System

- Sizing a skid system for a more concentrated polymer dose
- Use less water



System Layout: UGSI Chemical Feed option

Digester Heating System

- Replacing combination Boiler/Heat Exchanger unit in-kind
- Confirmed sludge and building heating requirements
- Confirmed dimensions to ensure equipment fits



Digester Transfer Pump



Original Digester Transfer Pump – piston pump



Upgrade to double disc pump

Electrical Power Distribution

- New Pad Mounted Transformer
- Replacing largest Motor Control Center (MCC-C1)
- Consolidating loads - eliminating MCC-F1



Design Updates

- 9) Process Controls Panels
 - New Main Control Panel
 - Retention System
 - Raw Sewage Pumps
 - Primary Clarifier/Sludge System
 - Secondary Sludge Control Panel
 - Digester Control Panel
 - Grit Control Panel



Contract Details

- Federal grant may be approved - \$1M appropriated
- Two separate contracts – break out steel retention tanks for federal grant requirements
- Open advertisement or invitation to bid

Project Schedule

- October 2026 – 60% Design Review
- December 2026 – 90% Design + EGLE Construction Permit Application (EGLE Review: 5 months)
- January 2027 – Construction Cost
- April/May 2027 – Bid Advertisement (*Depending on EGLE permit review*)

Questions?

Email: erins@fishbeck.com



