



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item number: 3.d

Title:

Phosphorus Removal and Digester Improvements Project
Update – Information only

Presenter:

Tim Wilson

Meeting: Government Services Committee

Date: June 25, 2018

Proposed Cost: n/a

Budgeted Amount: n/a

Not Budgeted:

Executive Summary *(if not budgeted please explain):*

Information only report on the Phosphorus Removal and Digester Improvements Project. The intent is to provide the Council Committee an update on the project status.

A member of the Public Works Staff will be available at each of the Government Services Committee meetings to respond to any questions or comments that the Council Committee may have.

Attachments *(please list):*

* Information only project report

Recommendation/Suggested Action *(briefly explain):*

None

Phosphorus Removal and Digester Improvements Project

June 2018

Construction Update Report

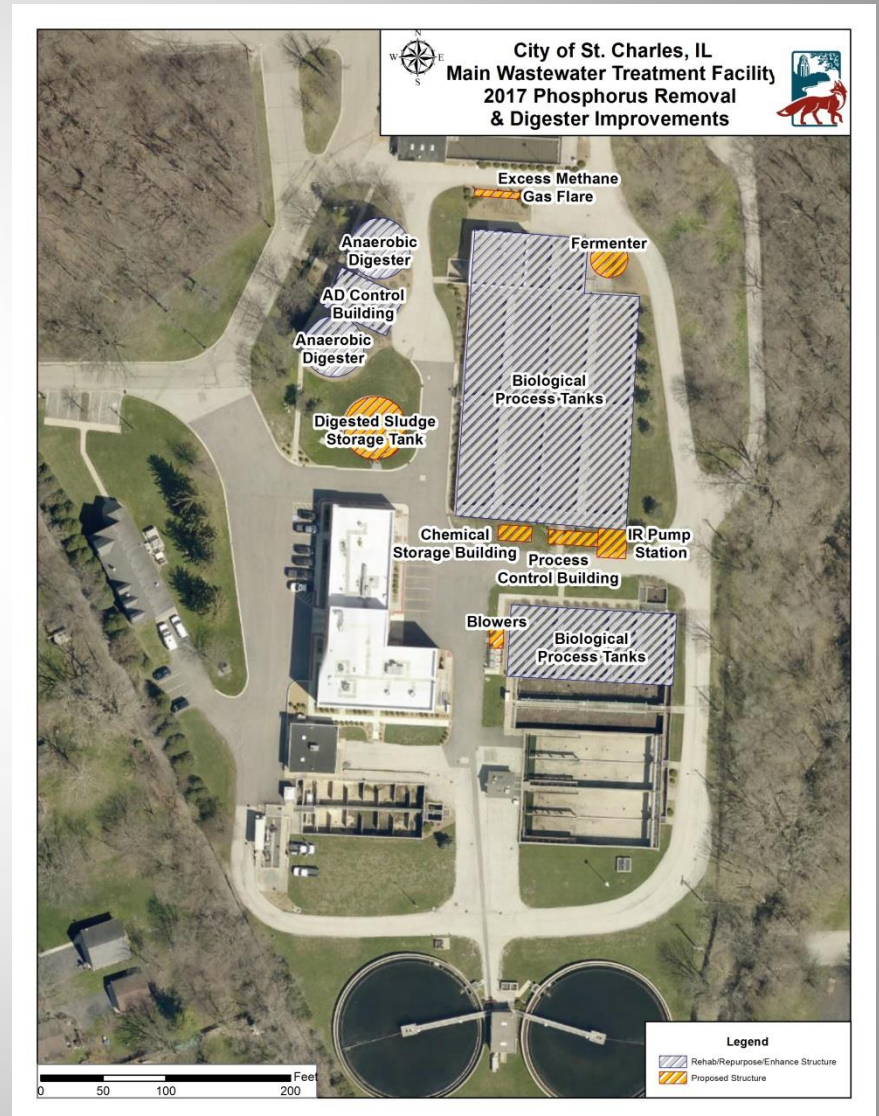
Construction Update June 2018

- Construction Contractor: IHC Construction Companies
- Project Schedule:
 - ~~Commence Construction : September 27, 2017~~
 - Chemical Feed System Online : June 1, 2018 - **Pending**
 - Substantial Completion : February 6, 2019
 - Final Completion : March 8, 2019
- Construction Contract : \$13,294,896
- Approved Contract Change Orders: \$28,308.41
- Pending Contract Change Order: \$(-27,724.34)
- Amount Billed to Date: \$4,630,718
- Construction Percent Complete: 42%

Construction Update June 2018

Current Construction Activity

- South Anaerobic Digester
- AD Control Building
- Digested Sludge Tank
- Fermenter
- IR Pump Station
- Chemical Storage Building
- Blowers
- Biological Aeration Tanks
- Underground Piping

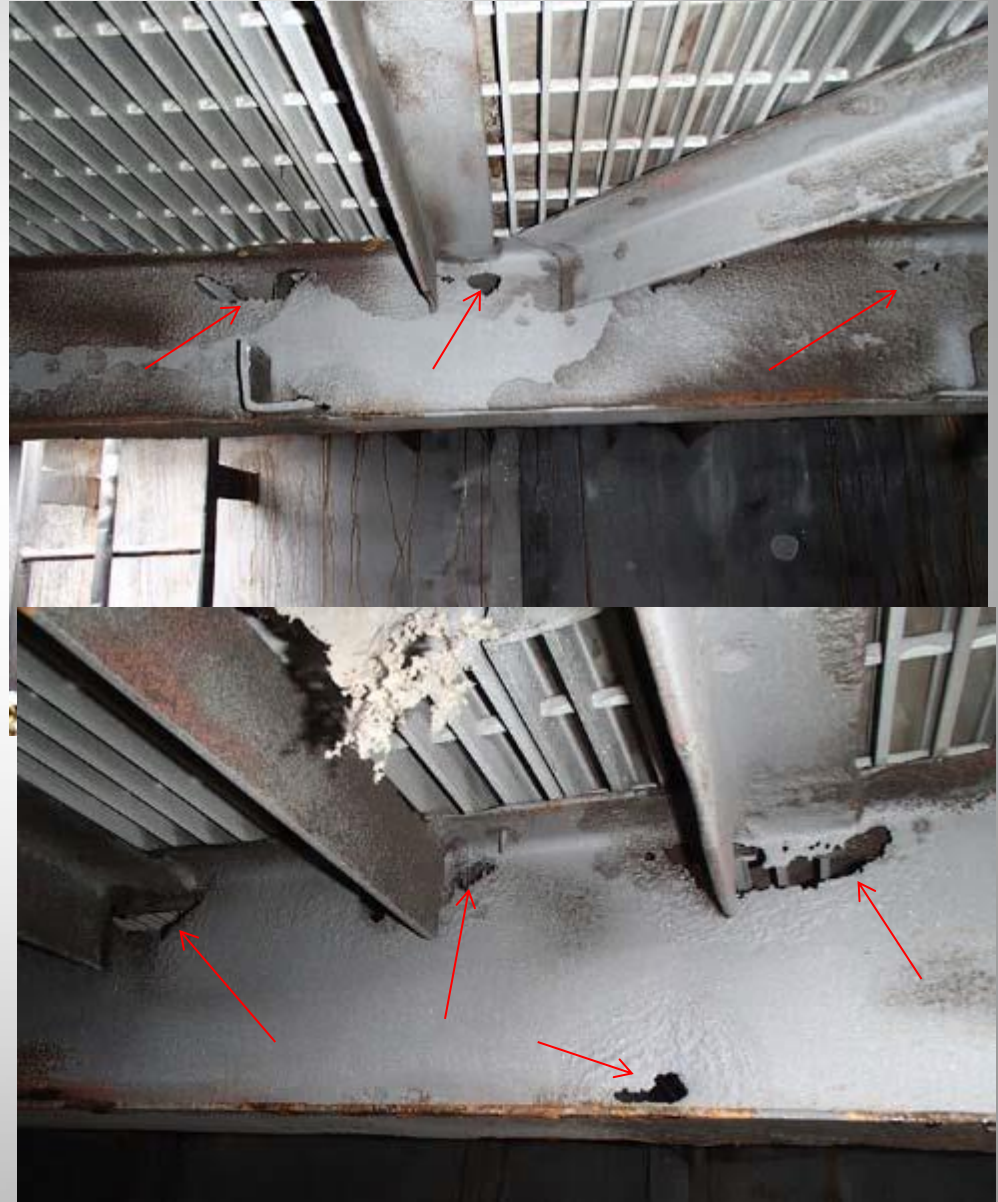


Construction Update Topic #1

- Electrical Motor Control Panel Manufacture Delays
 - Issue:
 - Motor Control panels are currently delayed in manufacturing at Texas Plant
 - Reason:
 - Hurricane Harvey & Irma
 - Increase Demand and Texas Manufacture Plant Damage and Cause for Delays
 - Note: Federal Funded Project Requires American Made
 - Impacts:
 - EPA June Chemical Feed Deadline
 - Overall Project Schedule
 - Solution:
 - EPA will extend June Deadline we are not the only construction project faced with this challenge
 - Overall Project Schedule: Waiting on true delivery of equipment then contractor will review his overall schedule
 - June Update: **1 of 3 Motor Control Panels Received**
 - Council Action:
 - None at this time

Construction Update Topic #2

- Holes and Metal Loss in I-Beam
 - Issue:
 - Structural Issues on Catwalk over Digester
 - Reason:
 - Sand blasting uncovered holes in I-beam
 - Impacts:
 - Additional Scope of Work for Contractor
 - Solution:
 - Contractor is pricing the repairs
 - Council Action:
 - None at this time



South Anaerobic Digester



South Boiler/Heat Exchanger in Place



Digester Gas Pipe Connection in South ESAD

Lower Aeration Work



Aeration Basin 1401, Drained



Stainless Steel Air Header Pipe Supports in 1400 Basins



New Positive Displacement Blowers (B-1404 and B-1405) Placed on Equipment Pad

IR Pump Station

- Pump Station Elevated Slab



Rebar for IR Pump Station Topping

Process Control Building



Underground Work



**Excavation for Primary Sludge/TWAS Piping
and Sanitary Manhole #2**



Excavation for Digester Drain Pipes

Underground Work



Digester Drain Pipes to Sanitary Manhole #1



**Excavation for Primary Sludge Pipe
Connection to the Grit Building**

Site Page

- Phosphorus Removal & Digester Improvements Project Page-
 - <https://www.stcharlesil.gov/projects/2017-phosphorus-removal-and-digester-improvements>