



**INFRASTRUCTURE  
ALTERNATIVES, INC.**

October 29, 2021

Mr. Mike Worm, District Supervisor  
Grand Rapids District  
Water Resources Division  
Michigan Department of Environment, Great Lakes, and Energy  
350 Ottawa Avenue NW, Unit 10  
Grand Rapids, Michigan 49503

SUBJECT: Quarterly Progress Report, July-September 2021  
Administrative Consent Order ACO-05326  
Saddle Ridge Site Condominium

Dear Mr. Worm,

Infrastructure Alternatives, Inc. (IAI) is pleased to present this quarterly progress report as required in Section 3.6 of Administrative Consent Order ACO-05326 (ACO), on behalf of Saddle Ridge Site Condominium Association and West Michigan Development Company. This report outlines progress towards compliance with the terms and conditions of the ACO for the period from July-September 2021.

*Phase I Improvements*

The Part 41 permit for the Phase I treatment system improvements was issued on September 23, 2020. This project includes rerouting of existing air piping for the bioreactors, installation of a diffused aeration system in the influent equalization (EQ) tank, and replacement of the existing rotary drum screen with a new Huber RO5C screening and grit removal system.

Equipment for the Phase I improvements project was ordered in March 2021. At this time, we have received the equipment for the new EQ diffused aeration system and it is in storage until we receive the rest of the equipment. The Huber screening/grit removal unit is scheduled to be delivered on November 1, 2021. Due to a nationwide equipment and shipping delays, equipment deliveries for this project have been delayed. The construction of the Phase I improvements began in October with the separation of the air header piping as approved in the Part 41 permit. Construction on this project will continue through the fall/winter.

The new Reznor air handling unit for the headworks room was installed on October 20, 2020.

In addition to the planned work for Phase I, the following items have been completed this quarter.



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- Replaced one UV unit.
- Replaced the UV ballast in the second UV unit.
- Installed guardrails and stairways for the tops of the EQ and bioreactor tanks.
- Cleaned out the standby generator and sealed openings to prevent vermin infestation.
- Drained and sealed conduit in control panel that had water in it.
- Replaced the influent flow meter.
- Repaired the membrane backwash pump.

### *Phase II Improvements*

We are still in the planning stages of the design for the Phase II treatment system improvements/plant expansion. IAI has put together project cost opinions for the alternatives listed below. The Ovivo membrane alternative is no longer being considered as it was cost prohibitive.

1. Expand the current plant capacity by installing two 6-tube Dynatec membrane filtration skids and associated appurtenances. This would include constructing a new sludge storage tank and upgrading the UV disinfection system.
2. Convert to a Sequencing Batch Reactor treatment system. This would include construction of new treatment tanks and installation of tertiary filtration. This would also include converting the current bioreactor tanks into sludge storage and upgrading the UV disinfection system.

The proposed implementation schedule has been revised and is included for your review and concurrence.

If there are any questions regarding this progress report, please contact me at [lsorensen@jaiwater.com](mailto:lsorensen@jaiwater.com) or 616-799-0402.

Very truly yours,

INFRASTRUCTURE ALTERNATIVES, INC.

A handwritten signature in blue ink that reads "Leslie N. Sorensen". The signature is written in a cursive, flowing style.

Leslie N. Sorensen, P.E., Senior Manager  
Engineering and Technical Services

Enc: Revised Implementation Schedule

cc: Wendy Tanis, West Michigan Development Company  
Mark Woudstra, West Michigan Development Company  
Jason Rosenzweig, Saddle Ridge Site Condominium Association

## 5 PROPOSED IMPLEMENTATION SCHEDULE (REVISED OCT. 2021)

The proposed implementation schedule for the recommended improvements is as follows:

EGLE Acceptance of AOF/CA Report Recommendations	April 2021
Prepare Plans and Specifications for WWTP Improvements	November 2021-March 2022
Apply for Part 41 Permit from EGLE	April 2022
Receive Quotations from Contractors and Suppliers	June-July 2022
Begin Construction	August 2022
Complete Construction	March 2023
Submit Record Plans to EGLE	May 31, 2023
Submit Operation & Maintenance Manual to EGLE	June 30, 2023