Last Chance Wastewater Treatment





March 12, 2024

FORSGREN Associates Inc.

Agenda

- Project Overview
- Operational Changes
- Treatment Process
- Points of Discharge











Project Overview

- Facility Planning Study completed in 2021
- New wastewater discharge is no longer a permittable use on public lands
- County has exceeded permit limitations for hydraulic loading, total coliforms on current discharge permit
- Received ARPA dollars to upgrade existing lagoon system to mechanical treatment plant to be spent by end of 2026
- Applied to IPDES for a river discharge permit



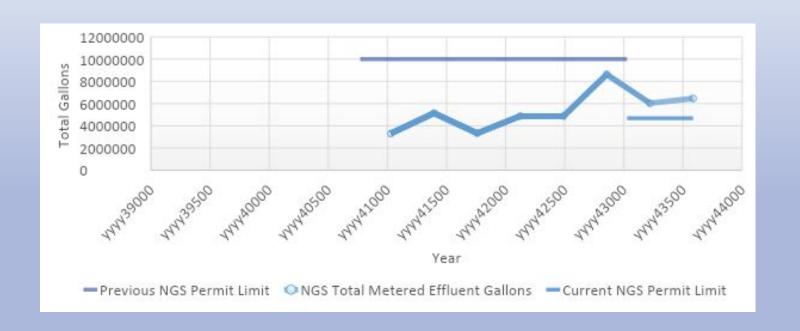






GREN Associates Inc.

Operational Changes







Design Criteria

Design Flows (based on 20-year build-out):

Summer Design Flows	Flow Rate
Maximum Month Flow Rate	0.13 MGD
Peak Hour Flow Rate	0.32 MGD
Average Flow Rate	0.11 MGD
Winter Design Flow	
Average Flow Rate	0.037 MGD

Projected Effluent Discharge Concentrations:

Parameter	Units	Concentration
BOD5	mg/l	10
TSS	mg/l	10
рН		6-9
Total Nitrogen	mg/l	10
Ammonia	mg/l	0.5
Turbidity	NTU	2.0
Phosphorus	mg/l	4





Treatment Process

Existing

- Aeration
- Clarification
- Disinfection

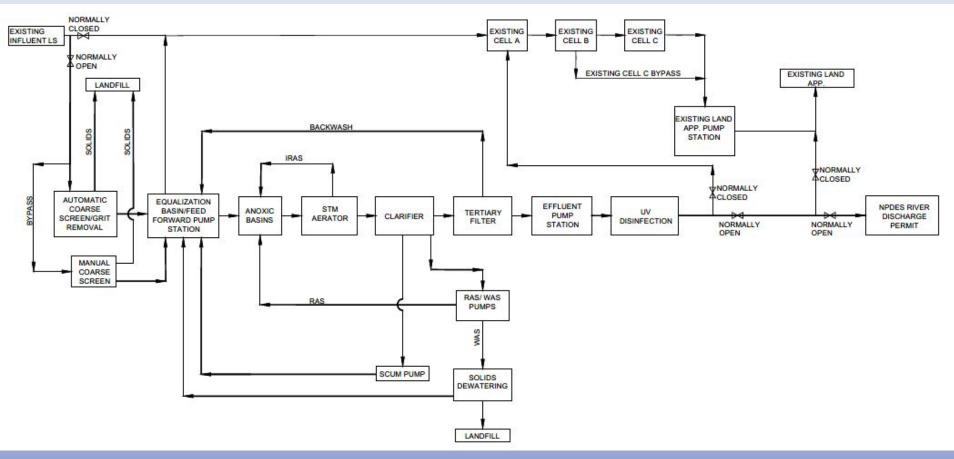
Proposed

- Screening
- Grit Removal
- Integrated Fixed Film Activated Sludge
 Process
- Clarification
- Filtration
- UV Disinfection





Treatment Process











₩.

Stream Discharge Location

formation as displayed on map is for Planning Purposes only. The data is approximate in terms f content and location and has been sounced from local, data, and national government gendles. Plasse contact Foreigner Associates Inc. with questions 0 0.1 0.2 0.4 Miles



June 2023

FORSGREN Associates Inc

Phosphorus Loading (kg/year)

Land Application with Growth	907
Proposed Discharge	403



