



# CASE STUDY

## PROJECT NAME

Sana Lake Recovery Center  
Dittmer, MO

## SYSTEM SPECIFICATIONS

20,000 GPD wastewater treatment system

## INFILTRATOR PRODUCTS USED

ECOPOD® Advanced Wastewater  
Treatment System

## INSTALLATION DATE

Summer 2022

## ENGINEER

Taylor Engineering  
Farmington, MO

## OWNER

Sana Lake Recovery Center  
Dittmer, MO

## ECOPOD Advanced Wastewater Treatment Plant Brings Missouri Recovery Center into Compliance with State Regulations

### OVERVIEW & CHALLENGE

Sana Lake Recovery Center is an addiction treatment center located in Dittmer, MO. When the facility purchased the property they were unaware that the existing single-cell lagoon was not approved or even permitted through the State of Missouri and operating a business on the property placed them in violation of the Missouri Clean Water Law. Additionally, the existing system was undersized and created pollution concerns. The facility eventually signed an administrative order to have a new system installed and operational by November, 2022.

### SYSTEM DESIGN

Taylor Engineering was tasked with designing a wastewater treatment system to bring Sana Lake Recovery Center into compliance. Various solutions were considered including connection to a centralized sewer system, a surface or subsurface land application system, or construction of a package wastewater treatment plant. The system needed to be designed for an average daily flow of 20,000 GPD with peak flows of up to 25,000 GPD. A 20,000 GPD ECOPOD Advanced Wastewater Treatment System with Geoflow dip irrigation was selected for the final design.

The installed system consists of a grease interceptor for the kitchen wastewater followed by a 10,000-gallon primary tank, a flow EQ tank with a working volume of 15,000 gallons, one (1) ECOPOD E200 unit in a 20,000-gallon tank, and a dosing tank leading to six drip line zones spanning across several acres. The larger drip area allows for future expansion of the system if necessary.

### RESULT

Installation of the system took place in two phases and was complete by the November, 2022, operational deadline. The system is permitted and properly sized bringing Sana Lake Recovery Center into compliance with the State of Missouri and Missouri Clean Water Law.



**INFILTRATOR**  
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