



CASE STUDY

PROJECT NAME

Joshua Tree AutoCamp Glamping Facility
San Bernardino, CA

SYSTEM SPECIFICATIONS

5,500 GPD staged denitrifying system for a 55-Airstream glamping facility at Joshua Tree National Park

INFILTRATOR PRODUCTS USED

ECOPOD® Advanced Wastewater Treatment System

INSTALLATION DATE

Fall 2021

ENGINEER

Kimley-Horn

CONTRACTOR

Advantage Septic Systems
Hemet, CA

OWNER

AutoCamp

ECOPOD Offers Simple Operation and Robust Treatment for AutoCamp Glamping Facility Wastewater Treatment System

OVERVIEW

A new AutoCamp glamping facility just outside the west entrance to Joshua Tree National Park in San Bernardino, California, required a wastewater treatment system that could handle daily flows from the 55 Airstream campers estimated at 100 gallons per day (GPD) per Airstream. Located in a sensitive environment that included large, mature tree growth, the system also needed to provide minimum disruption to the landscape and visual impact to guests.

CHALLENGE

San Bernardino County wastewater treatment regulations require NSF245 treatment. The system is also in the Joshua Basin Water District, which requires <10 mg/L TN effluent on top of the San Bernardino County requirements due to sensitive area.

SYSTEM DESIGN

An ECOPOD staged denitrifying system in Jensen Precast Tanks was selected based on the simple operation, minimal maintenance and robust treatment it could provide. Wastewater is piped to the 5,500 GPD ECOPOD treatment system from each of the Airstream locations and from a main building structure that houses a craft brewery, restaurant, and food commissary. The large precast concrete tanks were shipped to the jobsite. The 15,000-gallon BOD and Nitrifying ECOPOD reactor was battery style with three, 5,000 battery units, which were assembled at the jobsite. The ECOPOD reactors were installed inside two concrete tanks. One 5,000-gallon primary setline tank with an effluent filter and a second 3,000-gallon flow equalization tank with duplex time dosed pumps. Following installation, the top to the tanks were sealed. It then travels to a stone and pipe dispersal field.

RESULT

Owner and engineer were happy with the robust and easy to operate system that required minimal maintenance and was designed to achieve the effluent total nitrogen requirement of <10 mg/L.



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water technologies

4 Business Park Road, Old Saybrook, CT 06475
(800) 221-4436 • info@infiltratorwater.com



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