

## CASE STUDY

# Advanced Enviro-Septic Used in System at US National Park

Jackson, WY

### SYSTEM SPECIFICATIONS

6,500 GPD Wastewater Treatment System

### INSTALLATION DATE

Fall 2019

### PRODUCTS

Advanced Enviro-Septic® (AES) combined treatment and dispersal system

### OWNER

US National Park Service-Grand Teton National Park, Jackson, WY

### ENGINEER

Nelson Engineering, Jackson, WY

### INSTALLER

J.R. Civil, LLC, Sheridan, WY

### DESCRIPTION

An upgrade of existing, inadequate potable water and onsite sanitary sewer systems was needed to serve the existing lodge, houses, and cabins at the University of Wyoming's AMK Ranch research center adjacent to Jackson Lake in Grand Teton National Park. Owned by the US National Park Service's Grand Teton National Park, the system needed to comply with federal regulations.

The area is under close scrutiny due to the location in the national park and proximity to Jackson Lake. Construction of the new system could only begin once the AMK Ranch was closed for the season and needed to be completely operational for the 2020 season. A solution with a small footprint was desirable to minimize impact and disturbance of the pristine area and any solution had to be compatible with the extreme cold and frost depths prevalent in area winters.



A 6,500 gallon per day (GPD) Advanced Enviro-Septic (AES) combined treatment and dispersal system with 3,120 linear feet of AES Pipe was selected because it removes up to 99% of wastewater contaminants without using any electricity or replacement media. The passive AES system has a much smaller footprint than conventional systems, offering minimal disturbance during installation. The depth of allowable cover over the system was also a contributing factor in the selection of the AES system given the extreme winter conditions.



System installation went smoothly and was completed with minimum site disturbance. Materials were delivered by Ferguson Waterworks in Billings, MT.