

# X-FLO MOBILE CLARIFIER

The X-Flo Mobile Clarifier is designed to be a combination of traditional clarification technologies with standard mobile water storage treatment tanks to produce an economic means of solids separation, oil removal, and waste stream clarification on a job site. It is designed to remove settle-able solids as well as floating solids/oils from your wastewater and process liquids - something that cannot be achieved with other plate clarifier systems.

## Applications

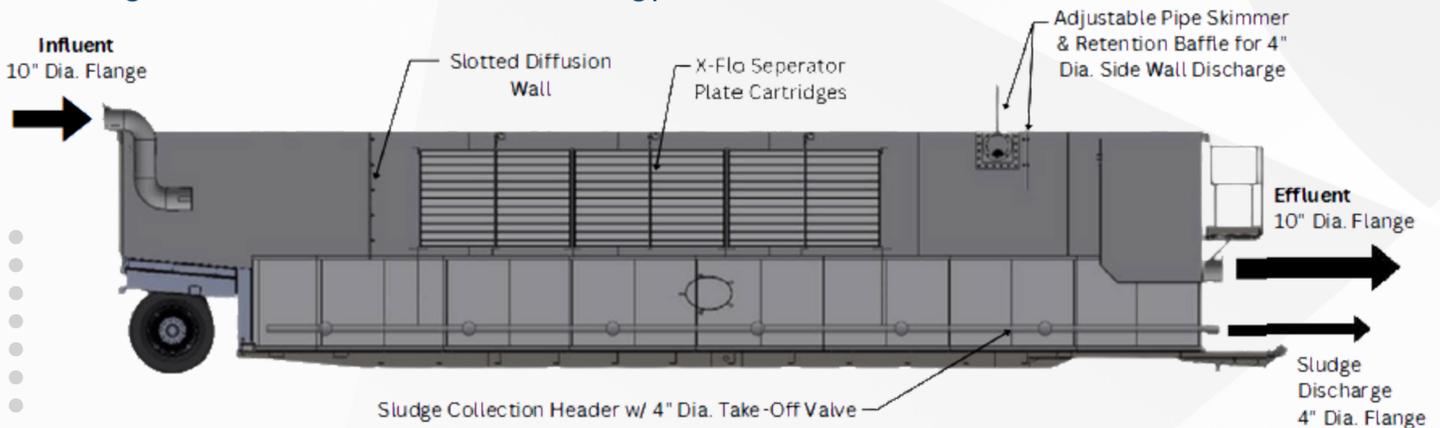
- System bypass treatment
- Temporary treatment
- TSS reduction
- Oil/water separation
- Stormwater
- Dredging
- Mining
- Surge flows
- Coal pile runoff
- Fracking & Produced Water

## Features & Benefits

<b>Approx. Tank Capacity</b>	16,450 Gal
<b>Approx. System Dimensions</b>	45' 6" L X 8' 6" W X 11' H
<b>Effective Cartridge Settling Area</b>	1,300 sqft
<b>Separator Plate Material</b>	Thermoplastic or 304 SS
<b>Tank Material</b>	Coated steel walls & floor
<b>Inlet / Outlet Flanges</b>	Ø10"
<b>Pipe Skimmer</b>	(1)@ 8" Diameter (4" flanged discharge)
<b>Sludge Handling</b>	Suction form full length pyramid hopper (sludge pump not included)
<b>Sludge Outlet Flange</b>	4"
<b>Tire &amp; Wheels</b>	Fixed rear axle w/ 10-hole steel wheels, 11 x22.5 tubeless tire
<b>Axle</b>	20,000# rated single axle

## Removes Solids & Free Oils in One Tank!

Targeted Treatment for 300-1,000gpm

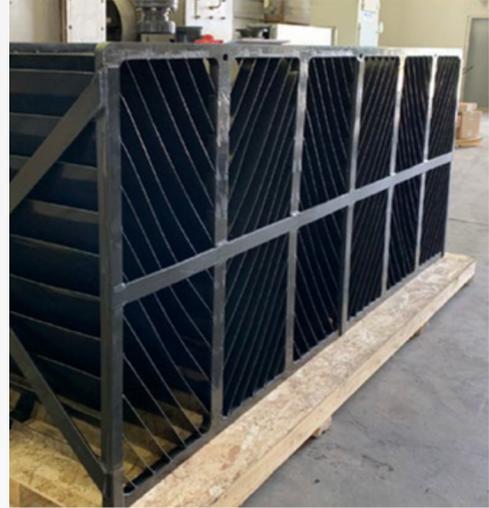


## Design Considerations

As the process stream flows horizontally into the mobile tank, contaminants will begin to separate. A front-end diffusion wall meets the influent flow where it is quieted and distributed across the separator cartridge. The liquid then enters the X-Flo Separator Cartridges, where heavier solids settle on the surface of the plates and lighter contaminants rise on the underside of the plates. The settled solids collect at the bottom of the tank while the floating materials are collected by a second adjustable pipe skimmer and retention baffle positioned after the cartridges.

The solids that collect on the bottom of the tank can be removed by means of pump suction through a full-length manifold header. Individual manual valves allow for isolation and sludge purging from specific areas of the tank.

Clarified liquid exits the X-Flo Mobile Clarifier through the effluent box, which consists of an effluent weir, launder, and flanged discharge.



## Process & Design Features

- Removal of floating and settle-able contaminants all in one clarification step
- Solids, grit, oil and scum removal
- Co-current cross-flow principal
- Still water channels for quiescent zone to prevent re-entrainment
- Greatly increases settling surface area within mobile tank
- Extreme-duty, chloride resistant tank coating
- Allows for speedy relocation and installation process

