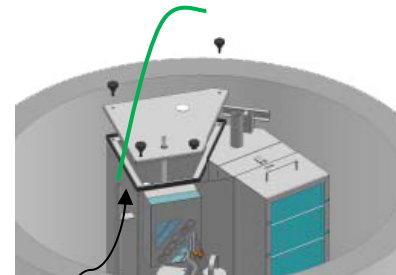




ecoSep® – Operation and Maintenance

General

To ensure unimpeded functioning of the system, the separator must be maintained periodically and all separated substances (grit, petroleum byproducts, and floatables) removed. Due to the danger of explosions, smoking or any other flame near the system should be avoided as the hatch is opened and the system is vented. If a floatable layer of hydrocarbons is present, draw the hydrocarbons into the ecoSep's oil recipient (either manually or automatically). The decanted oil is stored until the independent tank is full. The separated oil / water mixture can then be pumped from the recipients stand pipe and extension hose from grade. If entry is required the ecoSep structure is considered a confined space. Proper safety precautions for confined space entry must be strictly followed.

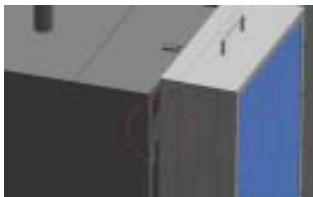


Oil recipient
 Stand pipe w/ hose

Removal of Grit

Sediments collected in the grit chamber must be disposed of on a regular basis as solids depths of 24" to 30" are achieved.

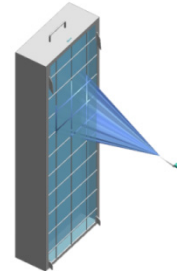
Cleaning the Media Cartridge



The coalescing media cartridge must be cleaned periodically. Since the maintenance intervals strongly depend on the very application, check the condition of the media weekly during the first two months of operations. To detach the filter cartridge from the outlet structure, release the quick lock on top of the cartridge and lift the filter.

The media can be cleaned/rinsed with a garden hose or a power washer set to fan spray. Ideally a filter fabric should be placed over the drain that discharges to the ecoLine. The coalescing media is placed on the filter fabric and back flushed. This greatly reduces the amount of debris being discharged back to the system.

Do not expose the coalescing media to extended periods of sunlight or UV radiation.



Removal of Surface Oil

Accumulated oil can be removed manually when there is no flow through the separator. Connect the handle to the extension of the manual draw-off valve and turn 90 degrees counter clockwise to open the valve. Drain the oil into the oil recipient and close the valve before the water can enter the tank. During operation of the separator make sure that the manual draw-off is closed.

To check the liquid level in the oil recipient remove the 4 black knobs and cover. If necessary, pump the collected oil through the standpipe of the oil recipient.



Open draw-off valve

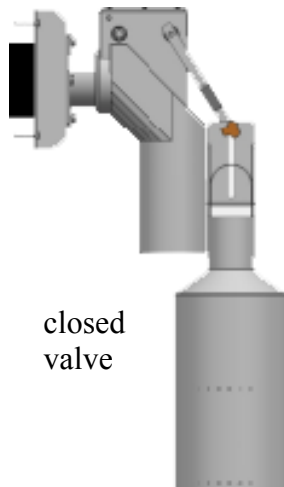


Closed draw-off valve

Maintenance of ecoStop® Spill Control Valve and Float

The spill control valve on the influent pipe operates in two working conditions:

- Open valve – Float lever is in a horizontal position and the float is buoyant.
- Closed valve – Float lever is pointing downward and the float is submerged.

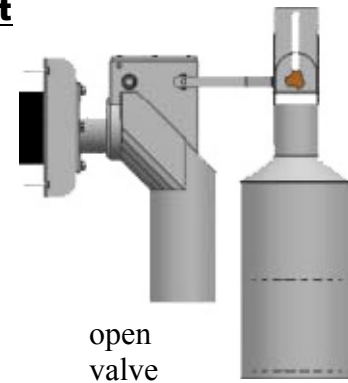


During normal operation the valve is open, and water flows into the separator. The valve will close when the maximum oil storage capacity is reached or when a certain liquid level in the separation chamber is exceeded.

To set the valve back to its normal operating condition, remove the orange float pin and empty the float completely. Remove the oil from the water surface, refill the structure with clean water and reconnect the float to the lever with the orange float pin. The float should remain buoyant if the water elevation is at normal levels.

If the valve initially closed due to a backup in the separation chamber, clean the filter media as detailed above and reset the valve.

Verify the float lever arm freely moves with the float attached. Occasionally remove the lid from the valve top and clean the inside of the valve with high pressure water. Lubricate moving parts as necessary and check the condition of the sealing gasket.



Optional Equipment

Automatic Draw-off Device (ADD) – If your ecoSep oil water separator is equipped with an ADD see our O & M manual for the ADD.

Protective Lining – ecoSep concrete structures can be lined with a cast-in GSE 80 Mil HDPE Studliner. The lining is cast into the concrete during manufacturing and joints are field welded as needed after installation is complete. The liner acts as a secondary containment barrier.