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www.highlandtank.com
One Highland Road
Stoystown, PA 15563
PH: 814-893-5701

Underground Cylindrical Oil/Sand Interceptor Installation Start-up Checklist

This form is intended to document all of the important information regarding the installation and start-up of your Highland Tank Oil/Sand Interceptor (OSI).

For accuracy, to ensure proper installation, and keep any warranty in force, this important document should be completed at the time of start-up. A copy of this document should be maintained at the OSI installation site, maintenance office and owner's office.

Person Conducting Start-up:

Print name: _____ Title: _____

Signature: _____ Date: _____

Installation Acceptance (see last page for any installation comments)

Customer

Print name: _____ Title: _____

Signature: _____ Date: _____

Installer

Print name: _____ Title: _____

Signature: _____ Date: _____

Highland Tank
One Highland Road
Stoystown, PA 15563
www.highlandtank.com
wastewater@highlandtank.com

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General Operating Notes

Periodic maintenance is required to remove sand, trash, sludge and oil from the coalescers and the unit as a whole. For units processing any rainwater, an inspection after a heavy rainfall event is recommended.

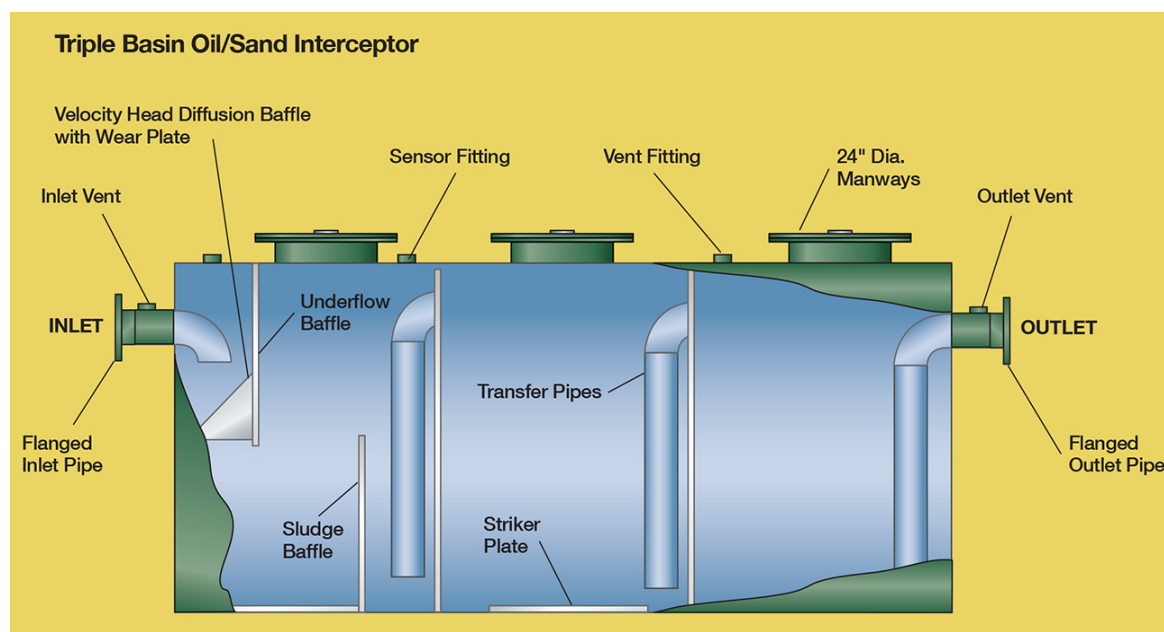
It is recommended that the OSI be cleaned at least once a year. Annual cleaning consists of removing the oil buildup on the surfaces of the OSI walls and coalescer plates with steam or high-pressure water. Prior to performing any maintenance, stop all flow to the OSI. Then, using suction, remove all fluid and solids from the OSI and dispose of properly.

Perform maintenance according to Highland Tank Aboveground Rectangular User's Manual available at www.highlandtank.com/AdminHighlandData/FileDataAdditional/resource_211.pdf. Since OSI designs will vary with sites, it is essential to adhere strictly to the manufacturer's instructions for cleaning and maintenance.

If contaminants are present, or if detergents are used in the cleaning process, always be sure to pump out before reactivating the system and reopening the valve on the influent line.

Factors that adversely affect OSI performance

- Excessive turbulence
- Excessive influent flow rate
- Excessive oil storage
- Pumping into the OSI
- Detergents or surfactants
- Excessive sludge build-up



IMPORTANT: OSI is to be filled with clean/fresh water prior to being put into service.



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PLEASE PRINT

Owner of OSI: _____ Installation Date: _____

Location of OSI: _____

Model / Size: _____ Start-up Date: _____

Sold to

Customer: _____

Address: _____

City: _____ State: ____ Zip: _____

Phone: (____) _____

Contact: _____

Start-up Attendees (Please print)

Installation Site

Customer: _____

Address: _____

City: _____ State: ____ Zip: _____

Phone: (____) _____

Contact: _____

Installing Company

Company Name: _____

Installer Contact: _____

Phone: (____) _____

Highland Representative

Name: _____

Phone: (____) _____

Email: _____

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OSI Specifications

Model: - _____ Highland Work Order #: _____
Set up for _____ GPM flow rate Serial Number: (HighGuard) _____
Construction: SW or DW (circle one) Serial Number: (UL) _____
Inlet size: _____ Outlet size: _____ Serial Number (other): _____
Manways Inlet size: _____", Outlet size: _____"
Manways:
#1 Diameter _____", Extension Height _____", #2 Diameter _____", Extension Height _____",
#3 Diameter _____", Extension Height _____", #4 Diameter _____", Extension Height _____",
Exterior Coating: Interior Lining: _____ None
_____ HighGuard Polyurethane _____ Polyurethane
_____ ACT-100U or STI-P3 Polyurethane (circle one) _____ Epoxy Other _____

Installation Checklist

Circle One

Have the OSI and all accessories been checked to verify that all items and correct items were received?

Yes No
N/A

Has the OSI been installed in accordance with the Highland Tank HighGuard (or other) installation instructions and Highland Tank Underground Cylindrical Oil/Sand Interceptor User's Manual?

Yes No
N/A

Available at www.highlandtank.com/AdminHighlandData/FileDataAdditional/resource_211.pdf

Has the HighGuard (or other protection system) installation checklist been completed in full?

Yes No
N/A

Has the OSI been installed level in accordance with installation instruction specifications?

Yes No

Has the OSI been installed with a separate atmospheric vent from the inlet pipe in accordance with applicable code requirements? (Not applicable on systems with Pumped influent)

Yes No
N/A

Has the OSI been installed with a separate atmospheric vent from the outlet pipe in accordance with applicable code requirements? (Not applicable on systems with Pumped effluent)

Yes No
N/A

Has the OSI been installed with separate atmospheric vents from the OSI body in accordance with applicable code requirements?

Yes No

Have all accessories been received and installed by the installer?

Yes No
N/A

Has the OSI been filled with clean/fresh water prior to being put into service?

Yes No
N/A

Has the operation of the OSI detailed in the Highland Tank Underground

Stoystown, PA / Manheim, PA / Watervliet, NY / Lebanon, PA / Greensboro, NC / Friedens, PA / Clarkston, MI / Mancelona, MI



Cylindrical OSI User's Manual been explained to appropriate personnel? Yes No
N/A

Available at www.highlandtank.com/AdminHighlandData/FileDataAdditional/resource_211.pdf

Has the need for periodic maintenance and the recommended procedure for this maintenance been explained to the appropriate personnel? Yes No
N/A

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OSI Installation Information

Backfill material used: _____

Hold-Down Pad or Deadman Anchors (circle one): Yes No
N/A

Hold-Down Straps with Liners: Yes No
N/A

Oil Skimmer

Is the OSI equipped with an oil-skimming device? Yes No

Skimmer Type: _____ Model # _____

Has skimmer been installed in accordance with manufacturer's instructions? Has it been tested Yes No
N/A

and is it working properly?

If "No", have you explained to the operator how to adjust the skimmer? Yes No
N/A

Sensor(s) and Alarm/Control Panel

Is OSI equipped with an Alarm/Control Panel and Sensor(s)? Yes No

Alarm/Control Panel Model: _____ Incoming Voltage: _____ VAC, _____ Phase

Has the Alarm/Control Panel been installed in accordance with manufacturer's instructions? Yes No
Has it been tested and is it working properly? N/A

Has the Oil Interface Level Sensor been installed in accordance with manufacturer's instructions? Yes No
Has it been tested and is it working properly? N/A

Has the High Fluid Level Sensor been installed in accordance with manufacturer's instructions? Yes No
Has it been tested and is it working properly? N/A

Pumps

Is OSI equipped with an influent pump system? Yes No

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Pump: Make - Model – Type: _____

Is pump mounting and piping configuration correct based on the manufacturer's specifications? Yes No

Is OWS equipped with an effluent pump system? Yes No

Pump: Make - Model – Type: _____

Has the operation of the Alarm Panel, sensor(s) and pump system been fully explained to the appropriate personnel? Yes No

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Underground Cylindrical Oil/Sand Interceptor Installation Start-up Checklist

Application

How is this OSI going to be used? _____

What type of Hydrocarbon is to be separated? _____

Specific Gravity(s): _____

Are there any detergents or solvents being used that will flow into the OSI? Yes No
N/A

If yes, what are they? _____

Have the effects of detergents/solvents been explained? Yes No
N/A

Where will this unit be discharging? _____

Have the effects of an emulsifying influent pump been explained? Yes No
N/A

Maintenance

Does the customer have a copy of Highland Tank Underground Cylindrical
OSI User's Manual? Yes No
N/A

Have you discussed the Underground Cylindrical OSI User's Manual with the customer? Yes No
N/A

Suggested Maintenance Procedure

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Sediment Chamber

Check the level of sand, dirt or debris that has accumulated in the bottom of the tank using a gauge stick or sampling device. If solids have accumulated to a 12" depth, remove the accumulated material. It is recommended that the oil/sand interceptor sediment chamber be cleaned at least once a year. Pump out all fluid from the oil/sand interceptor. Using high-pressure water, loosen any caked oily solids and remove from the OSI.

Separator Chamber

Check the level of oil that has accumulated in the tank using a gauge stick or sampling device. If separated oils have accumulated up to the bottom of the oil pump-out pipe, remove the accumulated oils. Clean the compartment as needed using high-pressure water.

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Differences noted (Missing or incorrect items): _____

Follow-up required: _____

Corrective action: _____

Start-up date: ____ / ____ / By: _____



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Notes: _____

Local Highland Representative: _____ Phone: () - _____

Email: _____