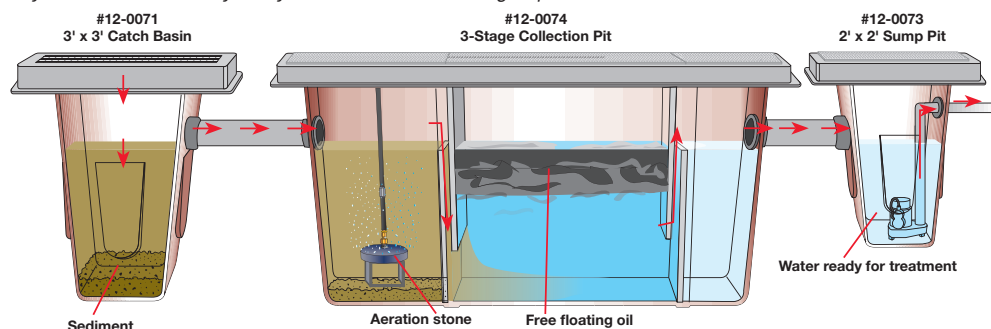# In-Ground Fiberglass Pit Systems

Use these premium quality fiberglass pit components for creating the appropriate pre-treatment pit system for your wash water recycle system or sewer discharge operations.

Southern Environmental Equipment

SEE *...the future!*

#12-0071
3' x 3' Catch Basin

#12-0074
3-Stage Collection Pit

#12-0073
2' x 2' Sump Pit

Water ready for treatment

Sediment

Aeration stone

Free floating oil

3' x 9' Pit Systems

Part Number	Pit Size (Ft.)	Description	Ship Wt.
12-0074	3x9x4.5	3-stage collection pit, fiberglass, 600-gallon capacity	480 lb.
12-0223	3x9x4.5	3-ft. x 9-ft. baffleless pit, fiberglass, 600-gallon capacity	480 lb.
12-0238	3x9x4.5	2-stage collection pit with single baffle, fiberglass, 600-gallon capacity	480 lb.
12-0244	3x9x4.5	3-stage collection pit with middle weir and third baffle, fiberglass, large solids settling area, 600-gallon capacity	480 lb.
20-0635A01	Fits 3x9	Above-ground external brace kit, #12-0074	250 lb.
56-0032	Fits 3x9	Aluminum hinged diamond plate cover with 3 frame sections	100 lb.
RC-0001-0003	Fits 3x9	Brace kit for installation of 3-stage collection pit	200 lb.
RC-0018-0001*	Fits 3x9	Steel grating for pit; 3,060 lb./ft.^{2} uniform load rating	546 lb.
RC-0018-0002*	Fits 3x9	Steel grating for pit with steel cover; 3,060 lb./ft.^{2} uniform load rating	680 lb.

*May combine RC-0018-0001 and RC-0018-0002 to have both open and closed sections for the 3'x9' pits.

3' x 3' Pit System

Part Number	Pit Size (Ft.)	Description	Ship Wt.
12-0071	3x3x4.5	Catch basin, fiberglass, 100-gallon capacity	190 lb.
20-0480A01	Fits 3x3	Steel grating for pit, 2 sections; 6,250 lb./ft.^{2} uniform load rating, H-20 load rated	250 lb.
20-0733A01	Fits 3x3	Above-ground external brace kit	250 lb.
56-0031	Fits 3x3	Aluminum diamond plate cover and frame	30 lb.
RC-0001-0002	Fits 3x3	Brace kit for installation of 3-ft. x 3-ft. pit	150 lb.

2' x 2' Pit System

Part Number	Pit Size (Ft.)	Description	Ship Wt.
12-0073	2x2x3	Sump pit, fiberglass, 50-gallon capacity	92 lb.
20-0479A01	Fits 2x2	Steel grating for pit; 6,660 lb./ft.^{2} uniform load rating, H-20 load rated	100 lb.
56-0030	Fits 2x2	Aluminum diamond plate cover and frame	60 lb.
RC-0001-0001	Fits 2x2	Brace kit for installation of 2-ft. x 2-ft. pit	75 lb.

Accessories:

Part Number	Description
3-0216	**Submersible sump pump** - Stainless-steel replacement, 1/2 HP, 230V, 1Ø, 5.0A
3-0328	**Replacement sump pump** - Surface-mount, 1.0 HP, 115V, 15.0A or 1.0 HP, 230V, 8.0A
33-0491	**Trap and basket** - 6-in., used on #3-0328 sump pump
55-1848	**Bulkhead fitting** - For piping of pits, 2-in., 1 each
55-2248	**Bulkhead fitting** - For piping of pits, 3-in., 1 each
55-2448	**Bulkhead fitting** - For piping of pits, 4-in., 1 each
855-0013	**Oil coalescing pack** - For #12-0074 3-stage collection pit

Option:

Part Number	Description
WX-0018	**Air stone assembly** - Prevents water from stagnatizing, includes regulator assembly, for aeration of pits

Aluminum Sump Pit and Grating:

Part Number	Description
56-0069	**Aluminum round sump pit** - Lightweight aluminum design; 4-in. NPT inlet; 2-in. x 2-in. NPT and 1-in. x ¾-in. NPT outlets; 52-gallon capacity
56-0070	**Aluminum sump grating** - Lightweight aluminum design, cover for #56-0069 aluminum round sump pit

The different pit components are designed to:

- *Effectively pre-treat vehicle wash water for treatment by an above-ground system*
- *Be easily installed by your contractor*

3'x9'x4.5' 3-stage collection pit, 12-0074

2'x2'x3' sump pit, 12-0073

3'x3'x4.5' catch basin, 12-0071

Trap and basket, 33-0491

Sump pump, 3-0216

Air stone assembly, WX-0018

Bulkhead fitting, 55-2448

Aluminum round sump pit, 56-0069 & aluminum sump grating, 56-0070

Oil coalescing pack, 855-0013

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Pit Cleaner

The Pit Cleaner is the right tool to aid in the clean-up of solids in hard-to-reach places. It is designed to draw and strain the solids that collect in wash water pits.

Southern Environmental Equipment

SEE
...the future!

Effective in applications such as:

- *Mud and sludge pits*
- *Sand pits*
- *Heavy grass clean-up*

Use with pressure washers 2.0-GPM up to 5.0-PM and 1000-PSI up to 4000-PSI.

Sludge box with 10-ft. PVC hose, 855-0017

Pit cleaner assembly, RC-0002-0001

Sludge carrier, RC-0003-0001

Biodegradable sludge bags, RC-0003-0002

Part Number	Description	Dimensions (LxWxH)	Ship Wt.
855-0017	**Sludge box** - Plastic box designed to hold the sludge bags; includes a 10-ft. x 2-in. diameter PVC hose	30x20x16in.	31 lb.
RC-0002-0001	**Pit cleaner assembly** - Includes the suction lance, suction head and flex hose; 87-in. suction lance is capable of vacuuming up to 1-in. diameter solids, 20-ft. of flexible hose is standard with the suction lance	93x12x4in.	25 lb.
RC-0003-0001	**Sludge carrier** - Movable cart designed to hold the sludge bags	22x29x48in.	53 lb.
RC-0003-0002	**Biodegradable sludge bags** - Designed to capture the sludge while allowing the water to flow through, used with either #855-0017 sludge box or #RC-0003-0001 sludge carrier; 5 qty.	-	-

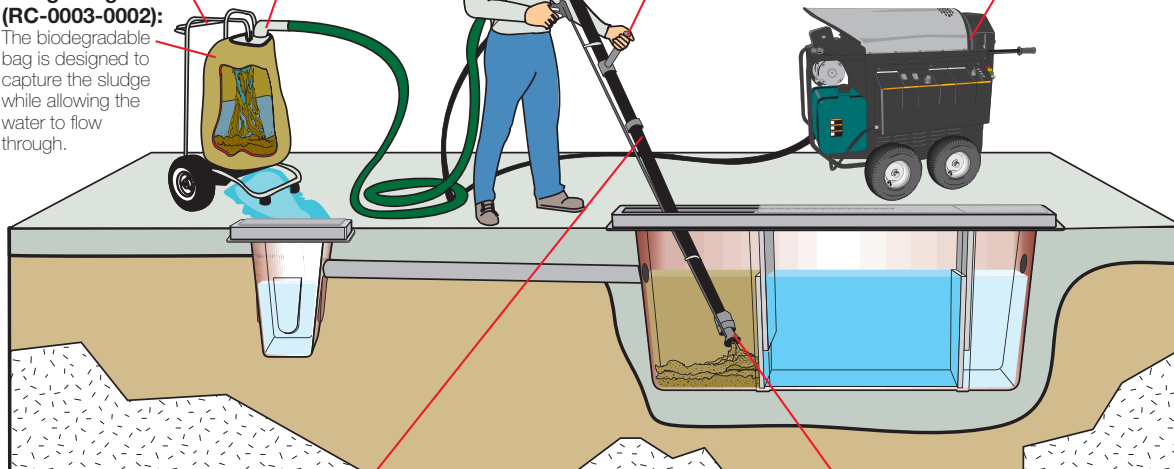## Sample Pit Cleaning Application with In-Ground Pit System

Sludge Carrier (RC-0003-0001): Movable cart designed to hold the sludge bags.

Biodegradable Sludge Bag (RC-0003-0002): The biodegradable bag is designed to capture the sludge while allowing the water to flow through.

Rotating Elbow: For convenience while vacuuming out pits, elbow swivels to follow the direction of the hose.

Pit Cleaner Assembly (RC-0002-0001): The handle adjusts for the comfort of the operator.

Electric Hot Water Pressure Washer: HHS-3004-2E2G

Suction Lance (RC-0002-0001): This 87-inch suction lance is capable of vacuuming up to 1-inch diameter solids. 20-feet of flexible hose is standard with the suction lance.

Suction Head: Via a venturi-effect in the suction head that is caused by force from the pressure washer, mud is sucked from the bottom of the pit to the biodegradable sludge bag.

Typical pre-treatment applications include:

- Rental Yards
- Golf Courses
- Heavy Equipment Dealers
- Trucking Facilities
- Military Bases
- Truck Rental Fleets
- Diesel Repair Facilities
- Forklift Washing Operations
- Aircraft Maintenance and Restoration
- Shipyards
- Municipalities/State DOTs
- Oil Fields
- Engine Rebuilders and Manufacturers

The Importance of a Proper Pit System

Once equipment is washed, the untreated wash water flows into your pit system. A proper pit system for your application is the first step in proper wash water treatment and a critical element in any wash water recycle system.

Consult your dealer to determine the pit system configuration that works best for your application.

BPS Series | **Biological Pit Enhancement System**

The Biological Pit Enhancement System enables you to inject air, microbes and nutrients into water stored in pits where oil collects and gathers. The BPS Series will improve the quality of the water by decreasing the amount of oils while adding oxygen.

The Biological Pit Enhancement System consists of:
- 2 aeration pumps - linear pumps used to infuse air into water collection pits
- 2 peristaltic pumps - used to inject bacteria and nutrients if so desired

Features include:
- 115V or 230V single phase settings (consult dealer for more information)
- Internal timers allow end user to control the amount and frequency of the liquid microbes and nutrient doses. The BPS Series can be set to inject bacteria every minute, every hour or every day, whatever the situation dictates.

Shown with side panel removed and liquid microbes, 58-0020, which is not included

Model Number	Power Requirements	Dimensions (LxWxH)	Ship Wt.
BPS-120M	120V, 1Ø, 8.0A, 60Hz	30x22x39in.	150 lb.

BPS Series | Sample Equipment Application

Sample Pit Application with Biological Pit Enhancement System

BPS-120M

3' x 9'
Fiberglass Pit

3' x 3' Catch Basin

Air Stone
(included)