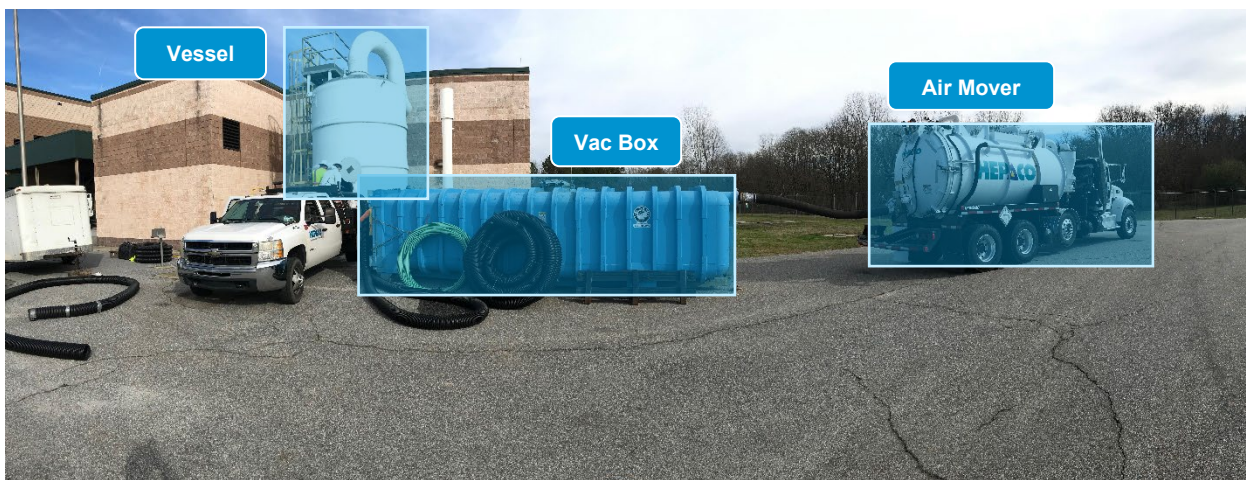


Standard Media Removal & Installation Procedures

For bulk media scrubbers and sling bag media loading

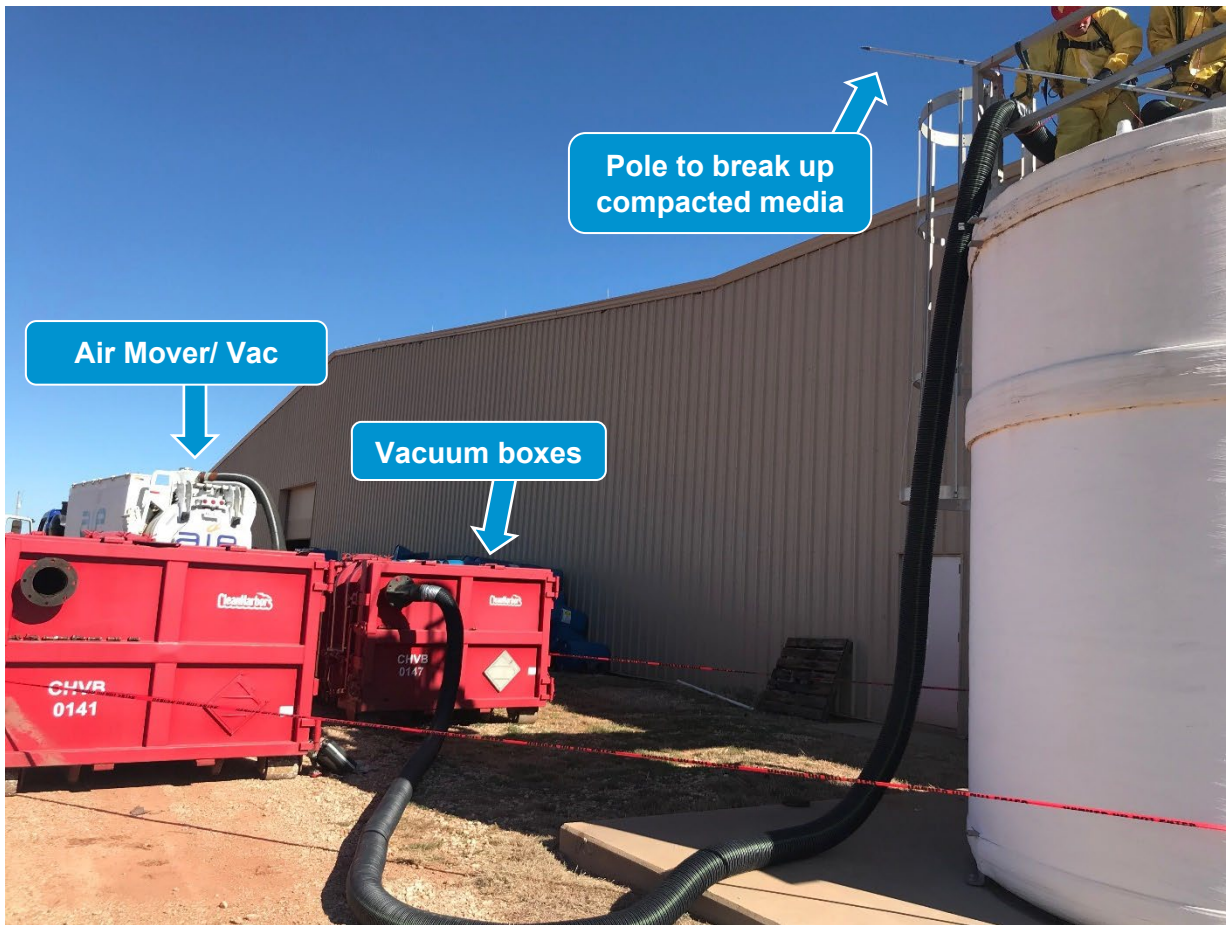
Part 1: Removal (Always follow on-site PPE requirements)

1. Spent / exhausted media needs to have a waste profile generated at an approved land fill prior to removal.
 - This typically involves sending a sample of media from the “waste generators location” to the landfill location/lab for testing. A profiling fee may be charged.
2. The media and scrubber are intended to remain dry.
 - To effectively remove the media an “Air Mover” style vacuum truck is suggested.
3. Typically the media beds are accessed from the top and vacuumed down.
 - A long stick or pole to help break up any compacted media may be necessary.
4. To reduce the costs and time required; vacuum boxes should be used.
 - Vacuum boxes sit between the vessel and air mover truck. These boxes fill up with the media leaving the truck empty. This allows for speedier clean-outs because the boxes hold greater amounts of material, and you can quickly switch between boxes if additional space is needed.
5. Confined space entry
 - Some of the media in larger vessels can become difficult to remove without manpower in the space. This is where confined space entry will need to be utilized to enter the vessel and break up sections of media that are not vacuuming out easily.
6. The integrity of the vessel should be inspected prior to reloading new media. Make sure to inspect the media support screen.
 - See Pictures below



Standard Media Removal & installation Procedures

For bulk media scrubbers and sling bag media loading

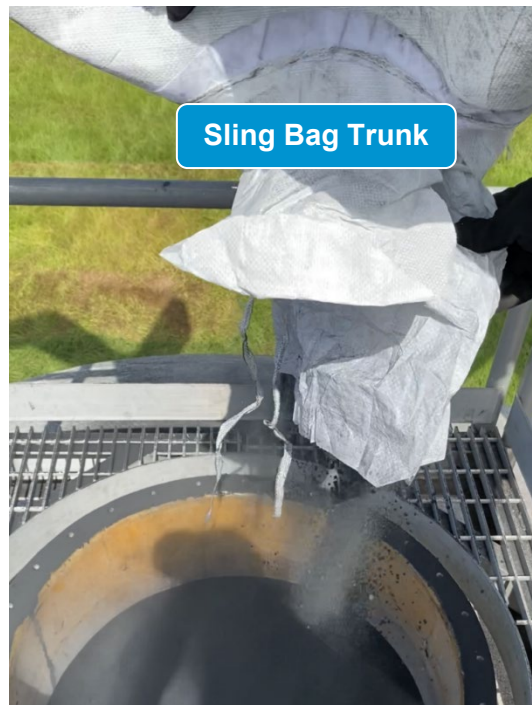


Part 2: Installation (Always follow on-site PPE requirements)

1. Media is often shipped via flat bed and will require a forklift for removal and staging in a safe environment, either for short term storage or for easy access to the vessel. A safe environment for media storage is covered and dry, and away from any gases like Chlorine.
2. Filing requires a team of 3 people minimum; though a 4-member team is recommended to speed up the task, including rigging sling bags on the lift or stacking and disposing trash. One person must be qualified to operate an extended boom forklift or crane depending on the site.
 - a. Forklift operator
 - b. Top of vessel for filling
 - c. Ground personnel to rig sling bags and manage waste (empty slings bags and removing protective plastic, stacking pallets)

3. For filling the vessel, take a full sling bag and lift above the center manway. The best position is roughly 24" from the bottom of the bag to the top of the manway flange. There are two knots under the bag. The first is to remove the trunk (or sling bag spout), and the second is to untie the trunk so media can flow out. We recommend using a slide to deliver the media into the vessel as gently as possible (photo below shows example of a 12" PVC pipe being used for this purpose).
4. Repeat this process until the vessel is filled to the appropriate level. Often, not all media shipped to site will be needed. Fill to the indicated fill line on the drawing for a fiberglass vessel. If the unit is a metal configuration, fill until the media is close ~ 3" from the top of the fill chute.

See photos for context:



12" PVC pipe used as a slide to prevent excess dusting / damage to the media during loading