

CBA's Mobile Groundwater Treatment Unit

CBA's Mobile Groundwater Treatment Unit consists of a packaged treatment system fully enclosed within a 16 ft. long Pace® American trailer. The system has been designed to remove free petroleum based product and dissolved volatile organic compounds. The unit is extremely versatile and fully automated for continuous flow operation on a variety of sites. The system is designed for maximum flexibility, allowing the addition of specific components as required. This system has a capacity of 30 GPM, however, CBA can design and assemble units of various sizes to meet various specifications.



Oil/Water Separator

- Inflow capacity up to 50 GPM.
- Removal of free product down to 10 ppm of droplets > 20 microns.
- Free oil coalesces on hydropak media and rises to the surface where it is automatically decanted by a surface skimmer.

Multi-Stage Diffuser

- Removal rates up to 99.99% of BTEX and other VOC's at inflow of up to 50 GPM.
- 300 CFM centrifugal blower with anti-spark, explosionproof motor.
- Multiple turbulent diffused aeration cells.

Iron Removal Filter

- Designed to remove suspended particulate and iron bacterial residue at an inflow up to 40 GPM.
- Particulates are removed through a combination of gravity settling and filtration on a series of non-woven fabric filter plates.

High Pressure Bag Filter

- Fabric bag filter operates at a pressure of 150 psig to remove suspended solids prior to carbon adsorption and subsurface injection.

Activated Carbon

- Activated carbon canisters are connected to both the effluent discharge and the off-gas from the air stripper.
- The canisters are standard 55 gallon drums approved by DOT for shipping, and contain up to 200 lbs of high activity carbon.

System Control Panel

- All components are connected through the System Control Panel. Sensors and relays monitor the operation of the system and shut down the influent pumps if a malfunction is detected.
- The system can be fitted with a modem for automated remote monitoring of all system components.

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