

## 2.2 GROUNDWATER TREATMENT

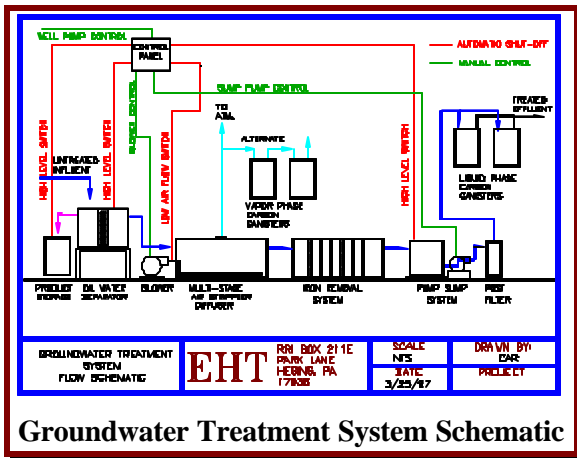
In most cases contamination affects both soils and groundwater, with impacted soils being the source and groundwater posing a potential pathway of exposure. CBA recognized the need to provide full scale remediation services, which include both soil and groundwater treatment, to our clients.

### 2.2.1 Mobile Groundwater Treatment System

CBA has assembled a Mobile Groundwater Treatment Unit which consists of a package treatment system fully enclosed within a 16 ft. long Pace trailer. The system has been designed to remove free product and dissolved volatile organic compounds. The unit is extremely versatile and can be easily mobilized to a variety of sites. The system is fully automated and can be operated year-round on a continuous flow basis. CBA has fabricated the system allowing for maximum flexibility; therefore, additional features can be provided to meet site specific treatment objectives.



Mobile Groundwater Treatment Unit



Groundwater Treatment System Schematic

The package treatment system is comprised of individual CARBTROL® treatment units. The system has the capability of pumping from multiple recovery wells or storage tanks simultaneously. The system is capable of continuous flow treatment of up to 30 gpm and removal of 99.99% of dissolved phase volatile contaminants. The unit is also capable of removing free product within the treatment configuration or directly at the recovery well itself.

The system also includes an iron removal filter and a high pressure bag filter to remove oxidized iron and sediment prior to entering activated carbon polishing filters. The standard components include the following:

- Variable Speed Submersible Pumps
- Pump Speed Controller
- Oil Water Separator
- Multi stage Diffuser
- 300 CFM Blower
- Iron Removal Filter
- Sump Pump System
- High Pressure Bag Filter
- Liquid Phase Carbon Filters
- Vapor Phase Carbon Filters