

Groundwater Treatment

The Problem

The Calgon Carbon Corporation Solution

<p>VOC / Pesticide / Organic Removal</p>	<ul style="list-style-type: none"> • Liquid phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • Carbon exchange and system maintenance service • Filtrasorb® series and Carbsorb® series virgin grade carbons • DSR series reactivated grade carbons • Rayox® UV Oxidation technology
<p>MTBE / TBA Removal</p>	<ul style="list-style-type: none"> • Liquid phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • Carbon exchange and system maintenance services • Bio-Enhanced GAC • Filtrasorb® 600 enhanced trace removal carbon
<p>Hydrogen Sulfide Removal</p>	<ul style="list-style-type: none"> • Liquid phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • Carbon exchange and system maintenance services • Centaur® catalytic carbon

Other Water Source Treatment

Water Sources

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|--------------------|------------------------|---------------------------|---------------------|
| • UST leaks | • Wastewater | • Construction dewatering | • Lagoon water |
| • Emergency spills | • Well pump test water | • Hydrotest water | • Landfill leachate |

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<p>Organic Removal:</p> <ul style="list-style-type: none"> • Chlorinated organic solvents • Cyclic/straight chain hydrocarbons • Polynuclear aromatic hydrocarbons(PAH) • Total organic carbon(TOC) • Biototoxicity and color reduction 	<ul style="list-style-type: none"> • Liquid phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • Carbon exchange and system maintenance services • Filtrasorb® series and Carbsorb® series virgin grade carbons • DSR series reactivated grade carbons • Rayox® UV disinfection technology
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Vapor Phase Applications

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Air Stripper Off-Gas Treatment – VOC Removal	<ul style="list-style-type: none"> • Vapor phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • AP4-60 virgin grade pelletized carbon • VPR series reactivated grade carbons
Soil Vapor Extraction / Soil Venting – VOC Removal	<ul style="list-style-type: none"> • Vapor phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • AP4-60 virgin grade pelletized carbon • VPR series reactivated grade carbons
Hydrogen Sulfide Removal	<ul style="list-style-type: none"> • Vapor phase adsorption systems <ul style="list-style-type: none"> o Permanent o Temporary o Canister exchange services • Centaur® catalytic carbon

Soil / Sludge Stabilization

The Problem

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Organic Immobilization	<ul style="list-style-type: none"> • DSR series reactivated grade carbons • WPX series powdered reactivated carbons

For more details on Calgon Carbon's products and services for these applications, please refer to our Remediation Services bulletin.

Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

Limitations of Liability

The Supplier's liability and the Purchaser's exclusive remedy for any cause of action arising out of this transaction, including, but not limited to, breach of warranty, negligence and/or indemnification, is expressly limited to a maximum of the purchase price of spare parts or equipment sold hereunder. All claims of whatsoever nature shall be deemed waived unless made in writing within forty-five (45) days of the occurrence giving rise to the claim. In no event shall the Supplier, for any reason or pursuant to any provision of the warranty, be liable for incidental or consequential damages or damages in excess of the purchase price, nor shall the Supplier be liable for loss of profits or fines imposed by governmental agencies.



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Making Water and Air Safer and Cleaner

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