

# Bechtel-S Corporation

## Services & Capabilities

**Bechtel-S Corporation** is a multidisciplinary engineering and environmental services company dedicated to excellence in the execution and successful completion of commercial, industrial and government projects. Our staff is responsive, flexible and ready to deliver the product, approach or solution to meet our client's most pressing needs. **Our responsiveness is what sets us apart!**

Our capabilities and experience are summarized below to help you better understand how we might serve you. Under each service area specific project experience is listed to demonstrate the breadth of our experience. The services provided to the client are highlighted in bold type.

### Civil Engineering Design

- **Design** of water supply, landfill facilities and/or wastewater systems for several Honduran cities.



- **Design** of an industrial landfill cover and a municipal landfill.

### Water Resources

- **Water resources assessment** (dams, pump stations, treatment & storage) for several Honduran cities.
- **Development of groundwater resources** in southern and eastern Africa using radioisotope techniques.

### Design and Construction Management

- **Landfill** upgrade at a DoD installation.

- **Buildings/structures** including an entomology (pesticide) management building and a physics laboratory.

### Environmental Services

- **Risk based corrective action** assessments for several DoD installations.
- **Preliminary assessment/site investigation** for one oil company and several DoD facilities.
- **Environmental management** planning for several DoD facilities.
- **Spill prevention, control and countermeasures planning** for a DoD installation.
- **RCRA compliance plans** and reporting for several DoD facilities.
- **Natural and cultural resource planning** for a 300-acre wetlands.
- **Solid waste management planning** for a landfill.
- Environmental assessments as per NEPA for DoD installations including **Phase 1 Site Assessments and Environmental Baseline Surveys**.

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# Bechtel-S Corporation

## Services & Capabilities (cont'd)

- **Pollution prevention planning** for a landfill and a DoD installation.
- Air, water, solid waste and RCRA **permitting and compliance support** for DoD and commercial clients.
- **Operations troubleshooting** of an existing dissolved air flotation system and upgrading the design for a return to refinery wastewater service.
- **Operations auditing, benchmarking and optimization** of treatment process operation for refineries, petrochemical and chemical plants.

### Air Compliance Services

- **Air emission** inventories for one DoD installation with 180 sources.
- **Air quality program management** including a Title V Permit Application and a Risk Management Plan for a DoD installation.

### Data Management

- Development of individualized and flexible **compact disc and web-based data storage and access systems** for several DoD facilities.

### Water and Wastewater

- **Technology selection** for oil removal and wastewater treatment systems for two refineries.
- **Process and detailed design** of a 3,000-gpm activated carbon treatment system for well water in California.

### Innovative Technology Applications

- Installation of an **iron filing reactive wall** at a depth of 80 feet to remove TCE and PCE from groundwater.
- Removal of VOCs from well water using an **in-well stripping and recirculation system** to reduce a TCE/PCE "hot spot" to drinking water MCL.
- **Development of an Internet web page** for DOE linking internal and external sources of

information on coal combustion byproducts (CCBs). Research was also conducted on the reuse and disposal of CCBs from emerging technologies.

- **Monitoring of natural attenuation** at spill sites and former landfills. Progress in natural attenuation at the spill sites became an element of the groundwater cleanup plan.
- Regional Project Advisor for the **IAEA groundwater resources project in southern and eastern Africa**. Provided technical support for the use of radioactive isotopes to quantify yield from groundwater sources and to trace contaminant movement in groundwater.
- Initial design and pilot plan for the application of **carbon nanotube mesh** for removal of Cryptosporidium, Giardia and other microbiological contaminants from potable water to meet LT2 rule compliance.

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