

Fact Sheet



Kelly Air Force Base Conversion Agency

September 2002

Groundwater Treatment Plant at Site S-1

The Air Force is constructing a groundwater treatment plant (GWTP) for the removal of chlorobenzene and benzene in the groundwater surrounding Site S-1, near Growdon Dr. This GWTP is designed to replace the interim system located at Site S-1. Construction of the GWTP and removal of the interim system will start September 2002 and continue through April 2003.

BACKGROUND

Site S-1 is a former waste oil storage facility and the former Defense Property Disposal Office (DPDO) storage area. This site reportedly received spent solvents, transformers, and scrap metal. Analyses revealed that chlorinated hydrocarbons exist in groundwater near this site. An interim groundwater treatment system for chlorobenzene and benzene has been operating since March 1995.

CONSTRUCTION

Construction of the GWTP and removal of the interim system is beginning this month. Construction activities include the following:

- Removal of 30–60 cubic yards of soil to allow for the construction of the concrete foundation. The soil will be used to build up the road entrance to the plant.
- Construction of a 2–3 ft thick concrete foundation

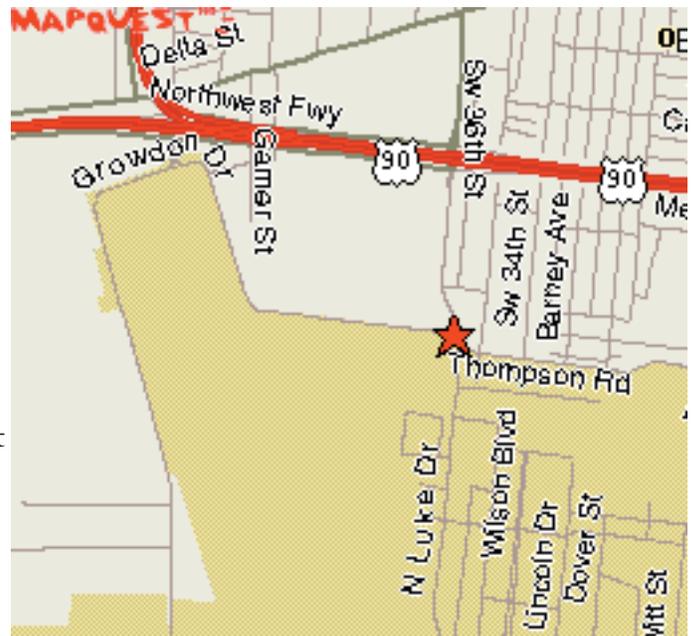
approximately 3000 sq ft.

- Construction of a 10–12 ft high 3000 sq ft pre-fabricated metal building.
- Construction of 2 or 3 minor utility trenches approximately 3 ft deep and no more than 100 ft in length.
- Remainder of the construction will be interior mechanical and electrical construction for equipment placement and process pipe and electrical installation.
- Interim treatment equipment will be decommissioned and removed to another location for salvage or disposal.

TREATMENT PROCESS

Contaminated groundwater will be pumped from a series of extraction wells to the treatment plant. The treatment plant uses ultraviolet light together with hydrogen peroxide to destroy the contaminants:

- Hydrogen peroxide is injected into the water.
- Groundwater is sent through filters and then exposed to UV lamps; the exposure to the lamps breaks chlorobenzene and benzene down to carbon



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dioxide, water, and salts.

- Groundwater then flows through carbon filters to ensure that all chlorobenzene and benzene is removed.

The facility has the capacity to treat up to 100 gallons per minute of groundwater. The treated, clean water from the facility will be discharged to Leon Creek.

Contact Information

If you have questions, please call the Public Information Line at 210-925-0956, visit the web site located at www.kellyafb.net, or write us at the address below:

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