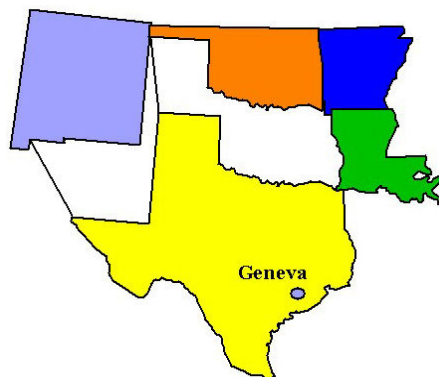


**GENEVA INDUSTRIES
SUPERFUND SITE
Houston, Harris County, Texas**

**EPA Region 6
EPA ID: XD980748453
Site ID: 0602809
State Congressional District: 29**

**Contact: Gary Miller 214-665-8318
Updated: December 2009**



Current Status

The last Five-Year Review was completed on September 23, 2008. The Five-Year Review determined that the remedy for the Geneva Site is protective of human health and the environment and will remain so provided certain actions are taken, including increased monitoring frequency (quarterly) in MW-26 and creation of Institutional Controls to restrict the use of Site ground water and to maintain integrity of the protective cap.

The Texas Commission on Environmental Quality (TCEQ) completed refurbishing the recovery system with new recovery well pumps and repaired the water treatment plant. The ground water recovery system was restarted in 2007 and will be operated as necessary to maintain containment of the ground water contaminants. The ground water recovery and treatment system had been shut down since 1999, but periodical monitoring of the ground water for contaminants and ground water elevations has continued.

An Explanation of Significant Differences (ESD) was signed on May 2007 to add institutional controls to the remedy for the site. TCEQ, who is the lead agency for this site, is preparing institutional controls as restrictive covenants and/or deed notices in accordance with the Texas Risk Reduction Program (TRRP).

Benefits

The excavation and off-site disposal of 62,000 tons (39,000 cubic yards) of PCB contaminated soils and capping of the remaining contaminated areas eliminated human exposures and protects the health of persons living near the Site. The construction of the slurry wall (average depth 31-feet) down to the 30-Foot Sand prevented future contamination of the Flood Control Channel. Ground water containment and recovery from the 30-Foot and 100-Foot Sands with a pump-and-treat system protects the 100-Foot Aquifer as a water supply zone.

National Priorities Listing (NPL) History

Proposal Date: September 8, 1983
Final Listing Date: September 21, 1984

Site Description

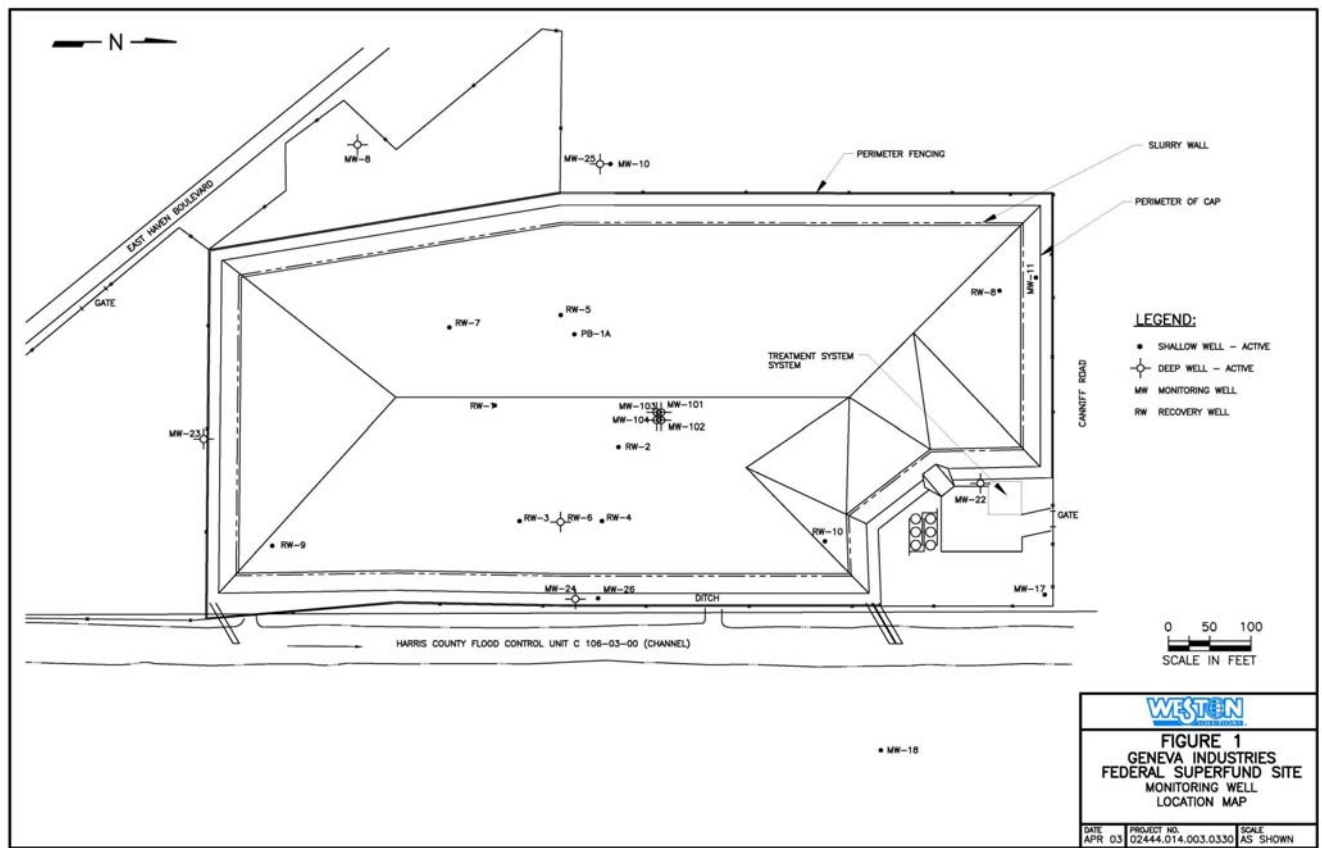
Location: The site is located at 9334 Caniff Road in Houston, Texas, immediately adjacent to the city limit of South Houston. The Site is within one-mile of Interstate Highway 45 and within two miles of Hobby Airport.

Population: 35,000 people live within one-mile of the Site. The closest residences are located less than 50-feet from the east and southwest Site boundaries.

Setting: The Site topography is flat with a surface elevation of 35-feet above sea level. The Site is drained by the Harris County Flood Control District Channel, which runs along the eastern boundary of the Site. Land uses near the Site are industrial and residential.

Hydrology: The top of the first water-bearing zone, known as the 30-Foot Sand, is about 15-feet below surface. The top of the first water supply zone, known as the 100-Foot Sand, is about 50-feet below the surface.

Site Map



Wastes And Volumes

Geneva Industries is an abandoned refinery that produced a variety of organic compounds including polychlorinated biphenyls (PCB). The principal pollutants at the Site prior to remediation include PCBs in soils (up to 12,200 ppm) and shallow ground water (710 ppb). Polynuclear aromatic hydrocarbon (PAH) compounds were also found in soil (165 ppm) and shallow ground water (to 1,500 ppb). Trichloroethylene (TCE) has been found in shallow ground water (420 ppb) and in deep ground water (28 ppb).

Health Considerations

High PCB concentrations in soil prior to remediation posed a significant health threat via direct contact, wind blown dust, or surface runoff. The contaminants also posed environmental risks to the adjacent flood control channel via surface runoff or contaminated ground water migration into the channel.

The site's Environmental Indicator status is human exposure under control and ground water migration under control.

Record of Decision

The Record of Decision was signed on September 18, 1986. The selected remedy included the following:

- Removal and disposal of surface structures;
- Excavation of soils contaminated with PCB above 100 ppm and off-site disposal;
- Construction of a multi-layer surface cap over the Site with a slurry wall tied into the clay below the 30-Foot Sand around the perimeter of the Site; and
- Recovery of trichloroethylene contaminated ground water from the 30-Foot and 100-Foot Sands. The recovered ground water was to be treated on-site by carbon adsorption, and then discharged to the adjacent flood control channel.

Construction completion was achieved on September 14, 1993.

The Site was divided into two operable units, OU-1 for soil and OU-2 for ground water. The remedial action for OU-1, consisting of soil excavation and disposal, and construction of the slurry wall and cap, was completed on September 28, 1990.

Construction of the ground water recovery and treatment system was completed in April 1993. Following testing, ground water recovery and treatment began in July 1993. However, major system modifications were necessary for the system to operate successfully. These modifications were completed in September 1994.

Community Involvement

Community Involvement Plan: Revised Mar 1987
Open Houses: July 1983; Oct 1983; Sept 1990
Proposed Plan: April 1986
Public Meeting: May 22, 1986
Technical Assistance Grant: Availability Notice – Feb 1989; Dec 1989; Sept 1990
No Final Applications received

Information repository: M. D. Anderson Library
University of Houston Main Campus
4800 Calhoun Rd.
Houston, Texas 77004
(713) 743-9772

Contact: Derral Parkin

Site Contacts

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EPA Site Attorney:	Marvin Benton	(214) 665-3190
EPA Public Liaison	Donn R. Walters	(214) 665-6483
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