

Cardinal Village Partners Site
6073-6077 Roosevelt Boulevard
Jacksonville, Florida
County: Duval
District: Northeast
Site Lead: Bureau of Waste Cleanup
Approved for Cleanup: February 22, 2000
Delisted: November 22, 2005
ERIC ID # 3896
HWC # 125

Site Description and History

The site is an active commercial property located at 6073-6077 Roosevelt Boulevard in Jacksonville, Duval County, Florida. The property is located in Section 15, Township 03S, Range 26E at 30° 14' 21.1593" N, 81° 41' 40.0864" W. The site consists of an approximately 1-acre lot containing a single-story concrete building. The building is currently subdivided into four separate units of varying sizes, each of which operate as an individual business. Previous and existing tenants occupying the buildings from 1964 to present include automotive repair, automotive paint and body shops, and a used furniture shop.

In January and February 1991, Phase I and Phase II Environmental Assessments were performed at the site. These assessments revealed petroleum and chlorinated solvent contamination near the southeast corner of the building including tetrachloroethene (PCE) and trichloroethene (TCE). Interim remedial actions included the excavation and removal of approximately 50 yd³ of soil. Monitor wells were installed in late 1991 and early 1992, and groundwater data indicated the presence of chlorinated volatile organic compounds (VOCs) and elevated levels of metals.

The DEP Site Investigation Section (SIS), and ABB Environmental Services conducted additional investigations in 1995 and 1998, respectively, under contract with the DEP. These additional investigations reported similar contamination as noted in late 1991. The site was approved for State-funded cleanup on February 22, 2000.

Threat

A private well is located on the property, behind the auto body repair shop, and provides water to the facility. A total of 51 community and non-community potable water wells were identified in previous assessment activities, and these wells are located within a 1-mile radius of the site. All site work has been completed at this facility, and there are no longer remaining exposure threats from either soil or groundwater contamination. Contaminants originally found at the site consisted of PCE, TCE, and various petroleum products. Soil contamination included several metals exceeding residential and commercial Soil Cleanup Target Levels (SCTLs).

In October 2001, the potable well located on the site was tested for all primary pesticides, VOCs, organics, and metals. Concentrations were all below the FDEP Groundwater Cleanup Target Levels (GCTLs). Soil samples indicated contamination with metals and VOCs. A source removal was performed in 2004 and the site was delisted in November 2005.

Response Strategy and Status

Additional site assessment activities were initiated in April 2001 by the DEP under a contract with IT Corporation. The purpose of this assessment was to investigate possible source locations for previously documented contamination, obtain current contamination levels in previously installed wells, and to determine if previously reported groundwater and soil contaminants may pose a threat to sensitive receptors. As part of the additional assessment, a door-to-door well survey was performed to determine the location and further details of potable wells located within the immediate vicinity of the facility. A total of twelve potable wells were located within a ½ mile radius of the site during the well survey.

Soil and groundwater analytical results showed a decrease in concentrations of chlorinated solvents at the Site when compared with the results of previous investigations. Groundwater contamination is limited to slight exceedance of GCTLs for PCE and TCE. Soil contamination was identified for arsenic, chromium, total recoverable petroleum hydrocarbons (TRPH), and poly chlorinated biphenyls (PCPs). In addition, septic tank analysis confirmed contaminants of lead, chromium, TRPH, 1, 2, 4-trimethylbenzene, and 1, 3, 5-trimethylbenzene.

GeoSyntec Consultants prepared a summary report for DEP, which provided an analysis of all contaminants, documented possible source zones, and identified risk exposure concerns. The report also recommended that an initial soil source removal (ISR) should be conducted as the first step of active soil remediation.

A cost proposal to conduct the ISR was submitted to the Department in January 2004, and field work was implemented in February 2004. Confirmatory soil sampling results of this ISR soil excavation indicated successful removal of all soil contamination. Additional groundwater sampling has indicated that there are no groundwater exceedances above groundwater cleanup target levels (GCTLs) for all related site contaminants. A Site Rehabilitation Completion Report (SRCR) was submitted by GeoSyntec Consultants in June 2005, and the site was issued a Site Rehabilitation Completion Order (SRCO) and delisted on November 22, 2005.