NORTH RAILROAD AVENUE **PLUME**

(RIO ARRIBA COUNTY) **NEW MEXICO**

(Within the exterior boundaries of the Santa Clara Indian Reservation)

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Updated: May 2009

CONGRESSIONAL DISTRICT 3

EPA REGION 6

Contact:

EPA ID# NMD986670156 Site ID: 0604299

Current Status

NMED continues to operate the remedy with EPA oversight and is demonstrating measurable success in PCE reduction, along with the PCE degradation products.

North

EPA and NMED in coordination with Santa Clara Pueblo and the City of Espanola held a Construction Completion Ceremony at the site on October 14, 2008 to commemorate the completion of the remedy construction and full implementation of the remedy. A Preliminary Close-Out Report was signed by the Director (Acting) of Superfund for Region 6 on June 30, 2008 documenting construction completion of the project remedy to Congress.

EPA signed an Explanation of Significant Differences to the Record of Decision on March 7, 2008, and received concurrence and letters of support from the State of New Mexico, the Santa Clara Pueblo and the City of Espanola.

Based on the highly successful results received during the Field Test Plan, emulsified vegetable oil will be used to remediate the PCE plume and DNAPL contaminant. The Explanation of Significant Differences report identifies emulsified vegetable oil, combined with infused hydrogen gas at the source of the plume makes an excellent substitute for the originally planned SEAR treatment. Based on new information obtained during remedy implementation EPA and NMED determined SEAR treatment was not the best option for remediation the DNAPL and source area of the plume. For more information, please see the ESD report or Fact Sheets mailed to the community at large.

NMED remains in close communication with other State and local authorities regarding the remedial progress achieved to date. EPA and NMED will continue to communicate with local authorities, as requested, in order to help minimize any inconveniences from the Site.

Project Status:

NMED, the state lead on the Remedial Action at the site is currently implementing Enhanced In-Situ Bioremediation treatment. The well installation phase of the remedy was completed November 2005. The two treatment buildings have been erected for the source area and bio-curtain along U.S. Highway 84/285, and in the deep zone near the Plaza de Espanola area.

Remedy includes the following activities:

- Enhanced In-Situ Bioremediation in the Source Zone (DNAPL), and at high PCE concentration areas (or Hot Spots):
- Enhanced In-Situ Bioremediation of the Dissolved-Phase Plume;
- Semi-Annual Ground Water Quality Monitoring (to assess performance of the remedial actions)

Benefits -

- The investigation of the ground water contamination identified the source of contamination, the
 extent of the ground water contamination, and its potential threat to the public drinking water
 supply.
- Remediation of the contaminated media will protect the area drinking water supply and the Rio Grande from future chlorinated solvent contamination.
- The site is currently unrestricted from surface landuse activities or redevelopment. Coordination and consultation with NMED should continue to occur however, since NMED is currently undergoing preliminary remedial implementation.

National Priorities Listing (NPL) History -

NPL Inclusion Proposal Date: July 28, 1998
NPL Inclusion Final Date: January 19, 1999

NPL Deletion Proposal Date: n/a
NPL Final Deletion Date: n/a

Site Description

Location: The site is located in Espanola, Rio Arriba County, New Mexico, within the exterior

boundary of the Santa Clara Indian Reservation. The Santa Clara Pueblo is located one mile south of the site. The site is located within the central business district of the town of Espanola. This central district includes service businesses, light industrial activities, as

well as residential properties, and subsistence farming land.

Population: The 1990 U.S. Census estimated the population of Espanola to be 8,389 people. The

Hispanic and Native American community comprise approximately 50% of the population.

The Santa Clara Pueblo has a population of 2,400 people.

Setting: The site consists of a contaminated ground water plume extending approximately 58

acres in elliptical shape 3/4 miles south of 113 North Railroad Avenue. The release of PCE

contamination originated at the Norge Town Laundromat and Dry Cleaning operation.

Photos: Site Pictures 2008

Health Considerations —

- There is a potential for elevated health risk levels associated with two types of chlorinated hydrocarbon compounds detected in the ground water including, tetrachloroethylene, trichloroethylene, cis-1, 2-dichloroethylene, and trans-1, 2-dichloroethylene. Pathways of concern are through ingestion, inhalation, or dermal contact with contaminated ground water.
- Tetrachloroethylene is the leading concern at this site because it is most widespread and found in the highest concentrations in ground water.

Record of Decision

Record of Decision Signed: September 27, 2001

The major components of the Selected Remedy include solvent flushing for the DNAPL component of the ground water contamination and in-situ biological treatment for the dissolved contamination. Soil vapor extraction from soil located at the source area is part of the remedy. A restrictive covenant is in place and prohibits the drilling of ground water wells within the affected ground water.

Site Contacts

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Site Repository: Espanola Public Library