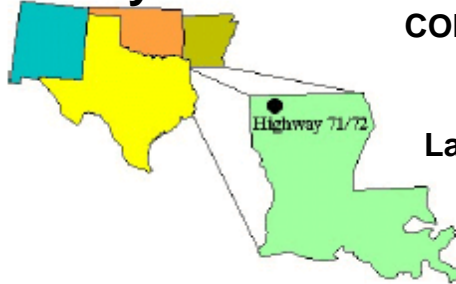


# Highway 71/72 Refinery Site (Bossier Parish) Louisiana

**EPA REGION 6**  
**CONGRESSIONAL DISTRICT 04**

**Contact:**  
**Laura Stankosky 214-665-7525**

**EPA ID# LAD981054075**  
**Site ID: 0600641**



**Updated: September 2008**

## Current Status

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CanadianOxy Offshore Production Co. (COPCO) is working with EPA and the Louisiana Department of Environmental Quality (LDEQ) to clean up the contamination at the Site. Glenn Springs Holding Inc. (GSHI) represents COPCO in the cleanup of Site contamination.

The Remedial Action (RA) consists of dual-phase extraction (DPE) of the light non-aqueous phase liquid (LNAPL) on the ground water. Operation of the DPE system started September 17, 2008. Delineation of the LNAPL on ground water plume areas is ongoing.

## Benefits

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Removal Actions were completed 1996 through 1999 for soil and indoor air. These removal actions eliminated unacceptable health risks associated with soil and indoor air for current and future residents.

The Soil Removal Action reduced the potential threat to children living and/or playing on the Site who could have contacted high levels of lead in surface soils.

The Indoor Air Removal Action reduced the potential threat to occupants of 8 onsite units who were being exposed to benzene concentrations in indoor air above the action level of 10 ppbv.

The Pilot Demonstration Project for LNAPL Recovery, conducted voluntarily by GSHI, helped all parties determine the feasibility and/or effectiveness of various long-term response actions evaluated at the Site.

## National Priorities Listing (NPL) History

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NPL Inclusion Proposal Date: February 13, 1995  
NPL Inclusion Final Date: n/a  
NPL Deletion Proposal Date: n/a  
NPL Deletion Final Date: n/a

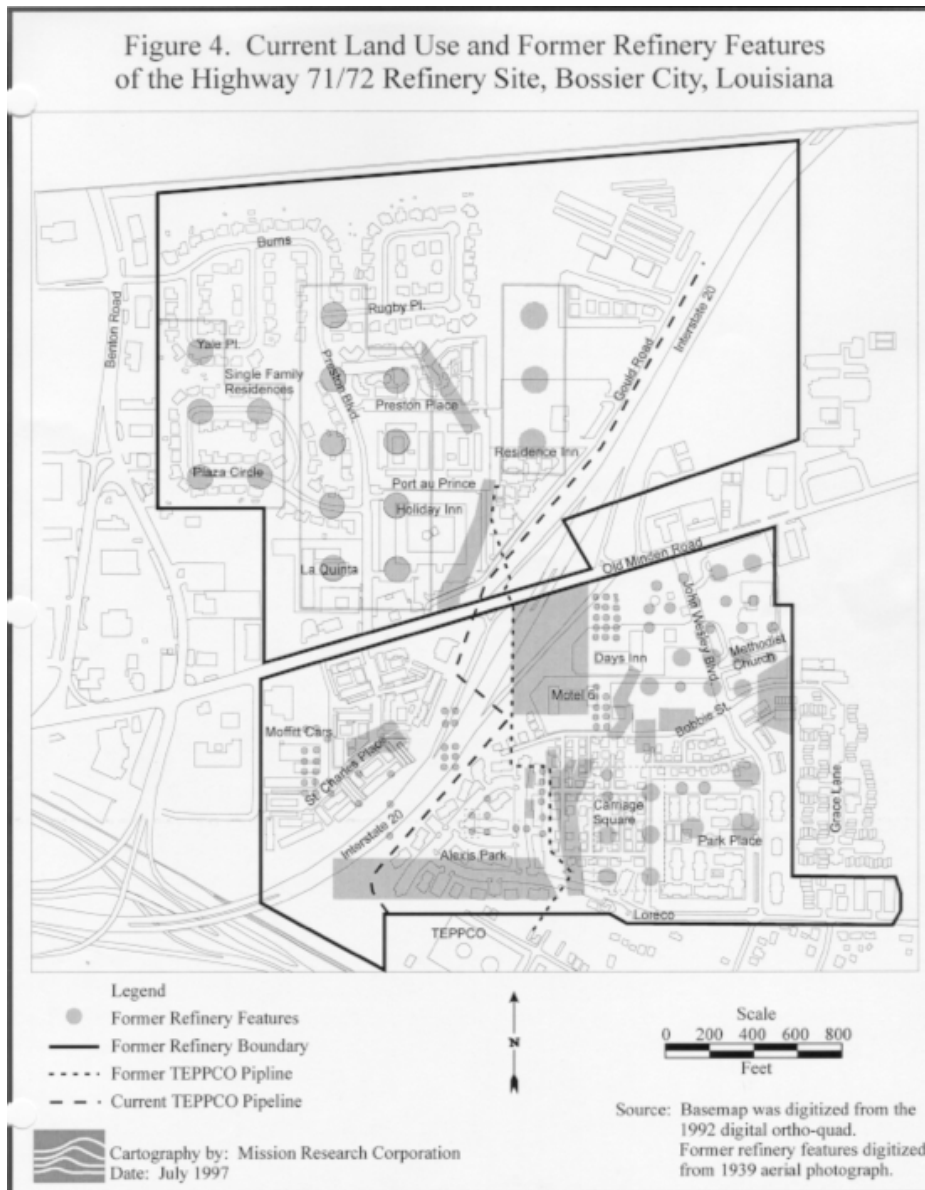
**Location:** The Highway 71/72 Refinery Site is located in downtown Bossier City, Louisiana, about 2 miles east of downtown Shreveport and 1,800 feet north of the Red River. The former refinery site consisted of about 215 acres. The geodetic coordinates of the Site are 32°31.0' north latitude and 93°42.7' west longitude.

**Population:** Bossier City (population 56,461 in 2000; 3500 people currently live onsite, including about 370 children (U.S. Census Bureau, 2000).

Setting: The former refinery was operational from 1923 until sometime between 1944 and 1948. In 1950, dismantling of several groups of tanks in the refinery process area had begun. By 1955, a significant portion of the refinery process area had been dismantled and most tanks were leased to third parties. From 1955-1967, various refinery operations were sold and removed. Beginning in 1968 and continuing to the present, the Site has undergone development.

Currently, private residences, commercial buildings, and light industrial establishments cover a large portion of the Site. Pavement or buildings cover approximately 52% of the area within the Site. Additionally, approximately 10% of the Site has limited accessibility for future development (i.e., the I-20 right-of-way).

## Site Map



## Health Considerations

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- All known surficial areas where exposure to lead in surface soils could potentially present health threats to children have been addressed under the Soil Removal Actions from 1996-1998.
- The Indoor Air Removal Action conducted in 1997 and 1998 addressed the imminent and substantial threats identified in 8 occupied dwellings to date. However, the potential for contamination of other units do exist due to possible migration of contaminants into indoor air from underlying source areas.
- LNAPLs in groundwater and areas of high soil gas concentrations (possibly generated from dissolved groundwater plumes and/or leading edge of LNAPLs plume) may be the underlying source areas of potential indoor air contamination.
- Buried wastes and contaminated soils may present a health threat if exposed, left on the surface and/or improperly disposed of in the future.
- Ecological risks are indeterminate at this time due to the urban nature of the site.

## Record of Decision (ROD)

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EPA signed the Record of Decision on September 26, 2000.

The full text of the ROD is available on the EPA – Region 6 website at: <http://www.epa.gov/earth1r6/6sf/pdf/files/finalrodwfig.pdf>. The major components of the Selected Remedy (Implementation of Common Elements plus Enhanced Light Non-Aqueous Phase Liquid (LNAPL) Recovery By Dual Phase Extraction (Plumes A, B, C, and D)) consist of:

- Sampling for lead in surface soil and sampling for hydrocarbons in surface and subsurface soils at the request of on-site community members;
- Cleanup of lead-contaminated surface soil discovered during requested sampling or uncovered during earthmoving activities;
- Cleanup of hydrocarbon-contaminated surface and subsurface soil discovered during requested sampling or uncovered during earthmoving activities;
- Sampling for benzene in indoor air at the request of on-site community members;
- Mitigation of indoor air contamination discovered through requested sampling;
- Implementation of ground water use restrictions;
- Periodic notification of the on-site community of potential contamination, of available services, and of ground water use restrictions;
- Environmental monitoring of LNAPL, ground water, and indoor air; and
- Enhanced LNAPL recovery by dual phase extraction (Plumes A, B, C, and D), including LNAPL recycling/reuse or disposal and treatment or disposal of co-extracted ground water and vapors.

## Site Contacts

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