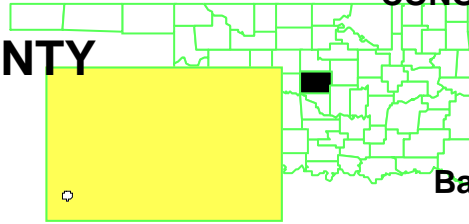


# DOUBLE EAGLE REFINERY OKLAHOMA COUNTY OKLAHOMA

**EPA REGION 6  
CONGRESSIONAL DISTRICT 5**



EPA ID# OKD007188717  
Site ID: 0601029

Contact:  
Bart Cañellas 214-665-6662

Updated: November 2009

## Current Status

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The Oklahoma Department of Environmental Quality (ODEQ) has completed several sampling events of the groundwater. Results show that natural attenuation is taking place through the generation or transformation of related products from the original contaminants. Further investigations conducted by ODEQ and the U.S. Geological Survey (USGS) confirmed that soil conditions are adequate to support the natural attenuation process and the process is taking place. The ODEQ and the USGS have noted that the high levels of sodium, total dissolved solids and chlorides (saltwater or brine) in waters of the upper aquifer make this a Class III or non-potable aquifer. Brine contamination from historic activities associated with oil and gas production in the area has degraded the water quality to such an extent that these aquifers will never meet the criteria for potable water.

The ODEQ and EPA continue to monitor the site by conducting Five-Year reviews to verify that the remedy is protective of human health and the environment. The last review was completed in May 2007.

In 2008 the ODEQ and EPA prepared a deletion package for this site. A Notice of Intent to Delete was published in the Federal Register on June 13, 2008. The public comment period closed July 14, 2008. One adverse comment was received, a withdrawal notice of the deletion was published in the Federal Register and EPA prepared a response to comments. The site was deleted August 21, 2008.

## Benefits

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The selected remedy for the Double Eagle site neutralized and stabilized approximately 44,193 cubic yards of contaminated sludge to protect approximately 32,000 people living within three miles of the site. Approximately 143,465 cubic yards of waste material were hauled and disposed at the East Oak Landfill.

## National Priorities Listing (NPL) History

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Proposed Date            June 24, 1988  
Final Date                March 31, 1989

Location:                - Northeast Oklahoma City, Oklahoma  
                                 - Two blocks southwest of the intersection of Eastern Avenue (Martin Luther King Blvd.) and NE Fourth Street, bordered by the Atchison, Topeka and Santa Fe (ATSF) Railroad to the north.

Population:             - Approximately 1,750 people live within one mile of the site.  
                                 - Approximately 32,000 people live within three miles of the site.

Setting: - Located in an industrial area of the city, southwest of the Fourth Street Abandoned Refinery Superfund site.  
- One-half mile southwest of Douglas High School, one-quarter mile south of a residential area.

Photos: [Site Photo 2007](#)

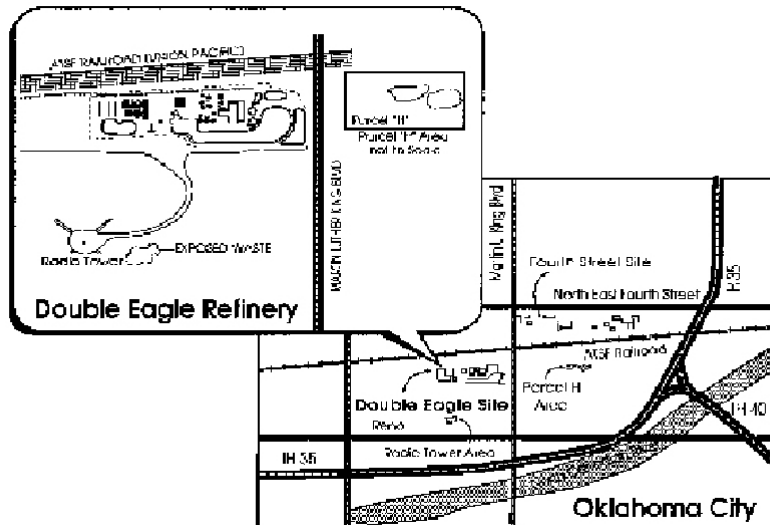
Principal Pollutants:

- Lead up to 13,300 ppm (sludge)
- Xylene (t) up to 48 ppm (soil/sediment.)
- Ethlybenzene up to 10 ppm (soil/sediment.)
- Trichloroethane 20 ppm (soil/sediment.)

(ppm = parts per million)

## Site Map

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## Health Considerations

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- Direct contact threats from lead contaminated sludge and soil.

## Record of Decision (ROD)

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**Signed:**

September 28, 1992 (Source), OU No. 1  
April 19, 1994 (Ground water), OU No. 2

- The Source Control Record of Decision (ROD) calls for on-site stabilization and disposal in an off-site landfill permitted for non-hazardous wastes.

- The Groundwater ROD calls for groundwater monitoring upon completion of source removal.

- Other Remedies Considered
1. No Action/Limited Action
  2. On-site stabilization and Capping
  3. On-site stabilization, Onsite Disposal
  4. On-site Incineration,  
Onsite capping of ash
  5. Off-site Incineration, off site Disposal

- Reason Not Chosen
- Will not address all risks.  
 Not considered permanent due to possible failure of cap.  
 Was the recommended alternative but State preferred the more economical off-site disposal.  
 Does not address metals (primary risk)  
 does not address metals (primary risk)

- Other Remedies Considered
1. No Action
  2. Pump and Treat

- Reason Not Chosen
- Will not provide for protection of lower ground water.  
 Will not reduce overall risk due to possible off-site source and high dissolved solids.

**Contacts**

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<b>EPA Toll Free Number</b>		1-800-533-3508
 <b>ODEQ State Contact:</b>	 Dennis Datin	 (405) 702-5125