

Former Pure Oil Refinery

Ardmore, Carter County, Oklahoma

Updated November 2, 2016

Location: The refinery is bounded on the west by Refinery Road, on the south by State Highway 199, on the east by a Burlington Northern Santa Fe Railway, and on the north by a salvage yard and vacant property. The site is approximately 70 acres in size.

The former crude oil tank farm is approximately 60 acres in size and is bounded by Refinery Road to the east, on the south by a vacant land on the west by residential properties and on the north by an intermittent drainage ditch.

Background: Pure Oil Company operated a refinery at the Site from 1916 to 1936 which consisted of a refining area (process area) surrounded by bulk storage operations. The bulk storage operations consisted of approximately 19 above storage tanks that contained fuel oil, benzene butts, gas oil, refined oils, stripped crude, crude oil, and gasoline. Other areas of concern are the 2 ponds, coke piles (mostly removed in 2007), D-008 pit (tar pit with elevated lead, removed in 2007).

The crude oil Tank Farm consisted of four above ground storage tanks, two 55,000 barrel tanks on the south property, and two 35,000 barrel tanks on the north property. The northwest quadrant was developed in the late 50's early 60's known as Hooper Addition. The northeast quadrant is owned by Habitat for Humanity with a residential development planned. The southern half is owned by Chevron.

Air: No known air quality issues.

Soil: Sampling data to date, shows surface soils and some areas of subsurface soils have been affected by the refining processes throughout the site.

Surface Water: To date, the surface waters do not show any impacts.

Groundwater: Groundwater monitoring wells indicate refinery operations have impacted the isolated perched groundwater. Groundwater is localized and non-contiguous. The majority of the groundwater monitoring wells are dry.

Private/Public Wells: No private groundwater wells were identified on the OWRB data base. There is a groundwater well in Area 5 which is believed to have been in service during refinery operations. The current owner indicated it has not been in operation for numerous years.

Vapor Intrusion to Indoor Air: This does not appear to be an issue.

Key Questions:

- **Have all known groundwater contaminant plumes been adequately evaluated and delineated?** Yes
- **Has the site been sampled for an adequate list of analytes?** Yes
- **Does soil or waste need to be cleaned up?** Yes, under evaluation.
- **Has the surface water been sampled?** Yes
- **Has soil at the site been cleaned up to levels protective of groundwater?** No.