

Tronox Technical Center (Oklahoma City)

(September 7, 2016)

Location: The Tronox LLC Technical Center is located at 3301 NW 150th Street in Oklahoma City, Oklahoma.

Background: A former un-lined disposal trench operated by Kerr-McGee was located along the north side of the facility from sometime in the 1960's until about 1980. The former trench was used for disposal of laboratory chemicals, residues from experiments, discarded samples, laboratory glassware, and trash. In 1995, these materials and surrounding impacted soils were excavated and sent to an incinerator in Utah for destruction and disposal. Groundwater monitoring indicated that certain volatile organic compounds (VOCs), primarily chloroform, had impacted the shallow groundwater on-site. Tetrachloroethene (PCE) and trichloroethene (TCE) are the other contaminants of concern.

In-situ biotreatment and proton-reduction are the remedies in reducing the chloroform and VOC concentrations in the groundwater. Quarterly groundwater sampling of a select group of monitoring wells is performed to monitor overall remediation system performance.

Air: There are no known air issues at the Tronox property.

Soil: The soils underlying the area of the property consist primarily of silt loam, silty clay loam and silty clays and are well drained, the parent material being silty alluvium over clayey residuum weathered from shale.

Surface Water: There is no known surface water contamination.

Groundwater: The water table historically shows groundwater movement in a westerly and northwesterly direction away from the source area. Depth to shallow groundwater in the area of the property ranges from approximately 5 to 20 feet below ground surface and occurs in relatively thin lenses of fine sand, interbedded in clay and silty clay.

Sixty-three wells are installed in the source area (north of the facility) and in an intercept line on the western edge of the property. Of these wells, thirteen are bioaugmentation wells and fifty are proton-reduction wells. Chloroform degradation continues to occur and the remediation system continues to operate as designed and built.

Private/Public Wells: No private or public wells are affected.

Vapor Intrusion to Indoor Air: There are no known vapor intrusion issues. The vapor intrusion pathway has not been investigated on the property.

Key Questions:

- **Have all known groundwater contaminant plumes been adequately evaluated and delineated?** The extent of the VOC plume on the Tronox property has been defined. The plume, however, has migrated off-site to the west across State Highway 74 and onto the Lone Oak property (see Lone Oak site summary). The extent of the VOC plume onto the Lone Oak property has been adequately evaluated and delineated by Lone Oak.
- **Has the site been sampled for an adequate list of analytes?** Yes
- **Does soil or waste need to be cleaned up:** No.
- **Has the surface water been sampled?** No
- **Has soil at the site been cleaned up to levels protective of groundwater?** Yes