

United States Environmental Protection Agency
Region VII
POLLUTION REPORT

Date: Tuesday, September 23, 2003

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To: Marie Rabenau, U.S.E.P.A.
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Subject: Omaha Lead

Greater Omaha Area, Council Bluffs, Carter Lake, Greater Omaha Area, NE

Latitude: 41.1997000

Longitude: -95.9303000

POLREP No.:	10	Site #:	NESFNO703481
Reporting Period:	9/15-21/03	D.O. #:	
Start Date:	8/18/2003	Response Authority:	CERCLA
Mob Date:	8/18/2003	Response Type:	Time-Critical
Demob Date:		NPL Status:	NPL
Completion Date:		Incident Category:	Removal Action
CERCLIS ID #:	NESFN0703481	Contract #	
RCRIS ID #:			

Site Description

The Omaha Lead Site is located in the Omaha metropolitan area including Council Bluffs, and Carter Lake, Iowa. Specific boundaries of the site have not yet been defined because the sampling activities for the entire area of investigation are not complete.

Several businesses and manufacturing companies used or processed lead at their facilities in the Omaha metropolitan area. ASARCO Incorporated (ASARCO) operated a lead refinery at 500 Douglas St. in Omaha for over 100 years beginning in the 1870s. The operation of the refinery ceased in 1997. As a routine part of the refinery operation, lead particles were emitted into the atmosphere at the refinery. In addition, the Gould Inc. lead battery recycling plant located at 555 Farnam Street in Omaha was a secondary smelter of lead from discarded lead batteries, closing in 1982. The blast furnace used to smelt the lead at the Gould plant emitted lead particles into the air from that smelter.

In the fall of 1996, the Douglas County Health Department (DCHD) began an assessment of 179 homes located in eastern Omaha. The goal of the assessment was to identify all sources of lead poisoning in each residence. DCHD collected outdoor soil samples from 84 of the 179 residences. Twenty of the 84 exceeded the 400 mg/kg screening level for lead.

In the fall of 1998, DCHD began a more thorough assessment of soil lead contamination at selected residences in east Omaha. Several more residential yards were found to be lead contaminated.

DCHD performed air monitoring of the ambient air quality around the ASARCO lead refinery. In 1984 an air monitor was placed along Abbott Drive immediately north of ASARCO. In the 37 quarters of monitoring conducted at this location between 1984 and 1996, the air standard for lead (1.5 grams per cubic meter) was exceeded 19 times. A second air monitoring station was placed along the Missouri River front immediately south of ASARCO in 1990. The standard was exceeded 17 of the 23 quarters that monitoring was conducted at that station. In 1995, a third monitor was placed immediately northwest of ASARCO. This monitor exceeded the standard in all five quarters that monitoring was conducted at this location.

In May 1998, Mr. Frank Brown, President of the Omaha City Council, sent a letter to the United States Environmental Protection Agency (EPA) requesting the assistance of EPA in addressing problems with lead contamination in the Omaha area. EPA initiated a process to investigate the lead contamination using CERCLA authority.

EPA began sampling soil from child care facilities and selected residential properties in March 1999. Seventy-eight of the 364 licensed child care facilities tested have one or more non-foundation results greater than 400 mg/kg with a high concentration of 4,670 mg/kg. The locations of the 364 child care

facilities are widely scattered over the Omaha metropolitan area (including Carter Lake, and Council Bluffs, Iowa). There are additional child care facilities that have not been sampled by the EPA. Efforts to sample these child care facilities are ongoing. Two hundred eighty-two residences with elevated blood lead (EBL) were tested resulting in 134 yards exceeding 400 mg/kg. Sampling at residences with EBL are ongoing. Five hundred sixty-nine of the first 1,422 private residences tested have one or more non-foundation soil analytical results greater than 400 mg/kg lead. The EPA is continuing to sample additional residential properties.

Current Activities

September 15-21, 2003

This was the 5th week of this phase of the removal action. All activities were focused on excavation and restoration of residential yards. Rain on Thursday and a scheduled break for a long weekend for the crew resulted in only 7 properties being excavated. Sod was laid on only 8 properties due to the wet weather. One complaint was received this week due to a broken sidewalk. Approximately 695 cu. yds. of contaminated soil was removed from those 7 properties. Approx. 515 cu. yds. of clean backfill was applied to remediate 10 properties. Due to wet weather not all properties were completely backfilled.

See document for table dated 9/19/03.

Planned Removal Actions

Thirty six properties were identified at the beginning of this phase. Six properties have been removed from the list because: 1) the child that exhibited the elevated blood lead level has since moved from the residence and/or 2) the property has been sold. Five (5) additional properties which exceeded the 2,500 mg/kg action level have been identified and added to the list for removal. Work next week will continue on those addresses which have yet to be excavated. Sod will continue to be laid to repair the yards. After the sod has been laid the EPA will water the yard(s) for 30 days, after which, the resident will be responsible for maintaining their own properties.

Contaminated soil is being stockpiled at the waste water treatment facility. The first 1,000 cu. yd. stockpile was sampled for pH, TCLP lead, and TOC. The first batch will be ready for transport to the Loess Hills Regional Landfill once analytical results are received.

Next Steps

The current criteria for removal candidacy is a child with an EBL (greater than 10 micrograms per deciliter) coupled with lead in soil above 400 mg/kg. Removal candidacy is being extended to addresses where lead in the soil exceeds 2,500 mg/kg.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$2,455,085.00	\$819,300.00	\$1,635,785.00	66.63%
RST/START	\$83,000.00	\$28,000.00	\$55,000.00	66.27%
Intramural Costs				
Total Site Costs	\$2,538,085.00	\$847,300.00	\$1,690,785.00	66.62%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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