

**United States Environmental Protection Agency  
Region IV  
POLLUTION REPORT**

**Date:** Thursday, July 15, 2004

**From:** Terrence Byrd

**To:** Bob Bittinger, errb  
Jackie Harvey, SEIMB

Matt Taylor, ERRB

**Subject:** Polrep #4  
Free Radiator Lead Site  
12316 Greenville Hwy, Lyman, SC  
Latitude: 34.9558000  
Longitude: -82.1308000

<b>POLREP No.:</b>	3	<b>Site #:</b>	A4CB
<b>Reporting Period:</b>	05/23/04 to 06/30/04	<b>D.O. #:</b>	
<b>Start Date:</b>		<b>Response Authority:</b>	
<b>Mob Date:</b>		<b>Response Type:</b>	
<b>Demob Date:</b>		<b>NPL Status:</b>	
<b>Completion Date:</b>		<b>Incident Category:</b>	
<b>CERCLIS ID #:</b>		<b>Contract #</b>	
<b>RCRIS ID #:</b>			

#### **Site Description**

The Free Radiator Site is located at 12316 Greenville Highway, Lyman, Spartanburg County, South Carolina. The Site is approximately ½ acre in size and has operated as a radiator refurbishing shop since 1947. The same family has operated the business since inception. The current operator is Howard Free; however, the land is owned by his brother, James Free. The operator of the shop stated that waste radiator fluid was flushed and drained into a 15ft<sup>2</sup> sump located behind the shop. SCDHEC became aware of the Site through a citizen's complaint and collected soil samples at the Site on May 9, 2002. The total lead detected in these samples was reported as high as 160,000 ppm. SCDHEC subsequently referred the Site to the Emergency Response and Removal Branch (ERRB) for more action.

On July 1, 2003, EPA and EPA's Science and Ecosystems Support Division (SESD) personnel conducted a site assessment and field investigation of the Site. Based on the screening levels, soil samples were taken at the soil surface as well as eighteen inches below the surface depending on initial readings. Readings indicated that lead contamination in the soil behind and on both sides of the shop is present at levels well above the Region 9 Preliminary Remediation Goal (PRG) (750 to 1250 mg/kg lead in soil). Lead contamination in excess of the Region 9 PRG also appears to have migrated into the soil of the property adjacent to the radiator shop. After the assessment, samples were submitted to be analyzed for lead and Toxic Characteristic Leaching Procedure (TCLP) lead only via a Contract Laboratory Program (CLP) laboratory. Sample results revealed the presence of lead ranging from 750 to 65,000 ppm, levels exceeding the removal action for lead in industrial areas.

#### **Current Activities**

The following actions were taken during the period of record:

1. Phase 2 of the removal began on 06/22/04
2. START performed site setup and grid layout.
3. START took a total of approximately 120 core samples around the residential area and behind the adjacent car dealership.
4. Core samples were tested for presence of lead in soil greater than 400 ppm (residential) and 895 ppm (industrial).
5. START sampled paint on the exterior of the landowners house and found elevated levels of lead (>4000 ppm)

6. Approximately twenty soil samples were sent for laboratory confirmation.

**Planned Removal Actions**

Actions to be taken during the next reporting period:

1. Excavation is scheduled to begin 1 week after receipt of laboratory analysis.

[response.epa.gov/FreeRadiator](https://response.epa.gov/FreeRadiator)