

Joyner Scrap Yard

Executive Summary:

The site was declared a State Superfund Site after a preliminary assessment in 1995 and a site investigation in 1996. DOE was considered the responsible party for the radiologically contaminated items, and agreed to remove asbestos containing items, hazardous chemicals were also removed from the site. Cleanup of the Joyner Scrap Yard occurred in 2000 – in total 42,540 lbs of low-level radioactive waste were removed from the site. The removal actions by DOE and TDEC have eliminated many onsite hazards. After a reassessment in 2008 of sediment samples, the US EPA determined that no remedial action by the Federal Superfund program is warranted at the Joyner Scrap Yard.

At present, additional sampling for the Remedial Investigation at the Joyner Scrap Yard Site has been postponed indefinitely due to budgetary constraints within the TDEC-DoR. This site remains on TDEC's list for further investigation and potential remedial action as funding becomes available. The primary contaminants of concern at this site are metals and PCBs in the soil and ground water that are potentially migrating to the reservoir.

Notes from Source Documents:

From Preliminary Assessment 11/03/1995:

- Site is adjacent to Watts Bar Reservoir located in Kingston, TN – 8.6 acre property
- Salvage Yard operated from 1967 to present (stopped taking materials from DOE in 1988), purchased scrap and resold to the public
- Most of the materials at the scrapyard were purchased from DOE including: forged metal, electrical equipment, radiation detection equipment, office and laboratory equipment, laboratory chemicals and several hundred drums (most drums appear to be empty but some still contain substances). Also laboratory chemicals including various acids, solvents, reagents, and metal salts
- cursory survey: evidence of past spills and leaks and presence of three items emitting low levels of ionizing radiation.
- Primary Concern: potential release at this facility could contaminate Watts Bar Reservoir
- Site was assigned ID number 0001119122 by US EPA for preliminary Assessment to determine if the site requires further investigation and remediation under CERCLA
- **Based on the data generated during the preliminary assessment this site appears to warrant additional investigation through the CERCLA process. Particular emphasis should be placed on determining if the reservoir has been impacted and on the identification and removal of any items that exhibit radiological contamination.**

From Site Investigation 04/04/1996:

- Knoxville Field office recommends that the Tennessee Division of Superfund promulgate the **Joyner Scrap Yard Site as a State Superfund Site**

- Site investigation determined that hazardous substances have been released to the environment from this facility.

From Radiological Contamination Survey 12/19/1998:

- Requirement from 1997 Consent Order and Agreement between the US DOE and TDEC to conduct a radiological contamination survey. Fieldwork took place July 20 1998-August 19, 1998
- 202 items were found to be above release criteria laid out in survey, from this about 40 items emitted elevated beta/gamma readings
- Items were also assessed for Asbestos and PCB contamination

From Characterization Removal Rad Contaminated Items 11/01/1998:

- Action to remove and dispose of radiologically contaminated equipment or materials from the property that exceed release criteria. In addition, all asbestos materials and soil hot spots (soils exhibiting radiological contamination levels above background) will be removed from the site and disposed. Items will be characterized for transport and disposition, transported and disposed of and/or recycled.

From Final Report for Characterization and Removal of Rad Contaminated Items 06/21/2001:

- **DOE is responsible for dispositioning of the radiologically contaminated items, and agreed to remove asbestos items. TDEC previously removed the hazardous chemicals from the site**
- Removal activities were conducted in August and September of 2000. In total 42,540 lbs of low-level radioactive waste were transported for final disposition away from the site, including radiologically contaminated items, asbestos waste, and sanitary waste.

From Rem Inv Sampling Analysis Plan 11/08/2005:

- In 2001 preliminary investigation of facility was conducted to determine if site soils and ground water were sufficiently contaminated to warrant a remedial investigation – determined that there was a need for further investigation, but the absence of financially viable responsible party and insufficient funds in state superfund resulted in no further action by TDSF for several years

From Reassessment Sampling Plan 07/03/2008:

- **Removal actions by DOE and TDEC contractors have largely eliminated onsite hazards**
- Reassessment sampling conducted in July of 2008 to determine if the site still posed an exposure risk.

From 73512SiteFile:

- **The US EPA determined that no further remedial action by the Federal Superfund program is warranted at the Joyner Scrap Yard**
- Based on 2008 Reassessment laboratory results from five sediment samples, the site no longer poses an unacceptable risk to human health or to the environment. Joyner Scrap Yard does not warrant further investigation under CERCLA process or inclusion on the NPL for additional site remediation activities at the federal level
- There was a request letter sent to Ms. Joyner in 2016 for additional soil sampling, but there is no documentation that soil sampling occurred

From Current Project Manager:

The sampling for the Remedial Investigation at the Joyner Scrap Yard Site has been postponed indefinitely due to budgetary constraints within the TDEC-DoR.

This site remains on TDEC's list for further investigation and potential remedial action as funding becomes available.

The primary contaminants of concern at this site are metals and PCBs in the soil and ground water that are potentially migrating to the reservoir.