

Waste Treatability Studies Report for the Hanford Site, Calendar Year 2010

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SUMMARY

This report provides information required annually by Washington Administrative Code (WAC) 173-303-071(3)(r)(ii)(F) and (3)(s)(ix) on waste treatability studies conducted for the Hanford Site by various laboratories during calendar year 2010. The studies were conducted in accordance with WAC 173-303-071, "Excluded Categories of Waste," to identify treatment processes appropriate to the waste, pre-treatment that may or may not be required, optimal treatment conditions, efficiency of the process, and so on.

Unless noted otherwise, the treatability studies were performed on waste provided by the U.S. Department of Energy, Richland Operations Office, P.O. Box 550, Richland, Washington 99352. The U.S. Environmental Protection Agency (EPA) identification numbers under which these studies were conducted are WA7890008967 (Washington) and SC1890008989 (South Carolina).

In general, data and information in this report are as follows:

- Amount of waste shipped for study
- Name, address, and EPA and state identification number of the laboratory or testing facility conducting the treatability studies
- Date the shipment was made
- By process, the types of treatability studies conducted
- Names of contractors, projects, etc., for whom studies have been conducted
- Total quantity of waste in storage each day, as available
- Quantity and types of waste subjected to treatability studies
- Data on sample residues and related waste returned to generator
- When each treatability study was conducted
- Final disposition of residues and unused samples from each treatability study (e.g., whether or not unused samples and residues were returned to the generator).

The *Waste Treatability Studies Report for the Hanford Site, Calendar Year 2010* includes information for waste treatability studies conducted for Hanford Site contractor Washington River Protection Solutions, LLC. The treatability studies table is provided below.

Small-Quantity Treatability Study for Washington River Protection Solutions during Calendar Year 2010.

Laboratory Location	Waste Type	Amount of Sample Shipped ⁽¹⁾ (kg)	Date of Shipment ⁽¹⁾	Technology Tested	Dates of Study	Amount Tested Jan–Dec 2010 or In Process (kg)	Amount to be Tested Jan–Dec 2011 (kg)	Final Disposal of Unused Sample Portion	Final Disposal of Residue
SRNL ⁽¹⁾	Hanford Tank Waste, SX-105	1.08	09/10/10	Steam Reforming	September 2010 to September 2011	0	1.08	N/A Study ongoing	N/A Study ongoing
SRNL ⁽¹⁾	Hanford Tank Waste, AN-103	1.14	09/10/10	Steam Reforming	September 2010 to September 2011	0	1.14	N/A Study ongoing	N/A Study ongoing

SRNL = Savannah River National Laboratory (EPA ID SC1890008989)

⁽¹⁾ Shipped from 222-S Dangerous & Mixed Waste Treatment, Storage, and Disposal Unit, Hanford Site, Richland, WA (EPA ID: WA7890008967), to Savannah River National Laboratory, DOE/WSRC Savannah River Site, HWY 125, Jackson, SC 29831 (EPA ID SC1890008989).

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