

CHEMICAL WASTE RECYCLING PROGRAM

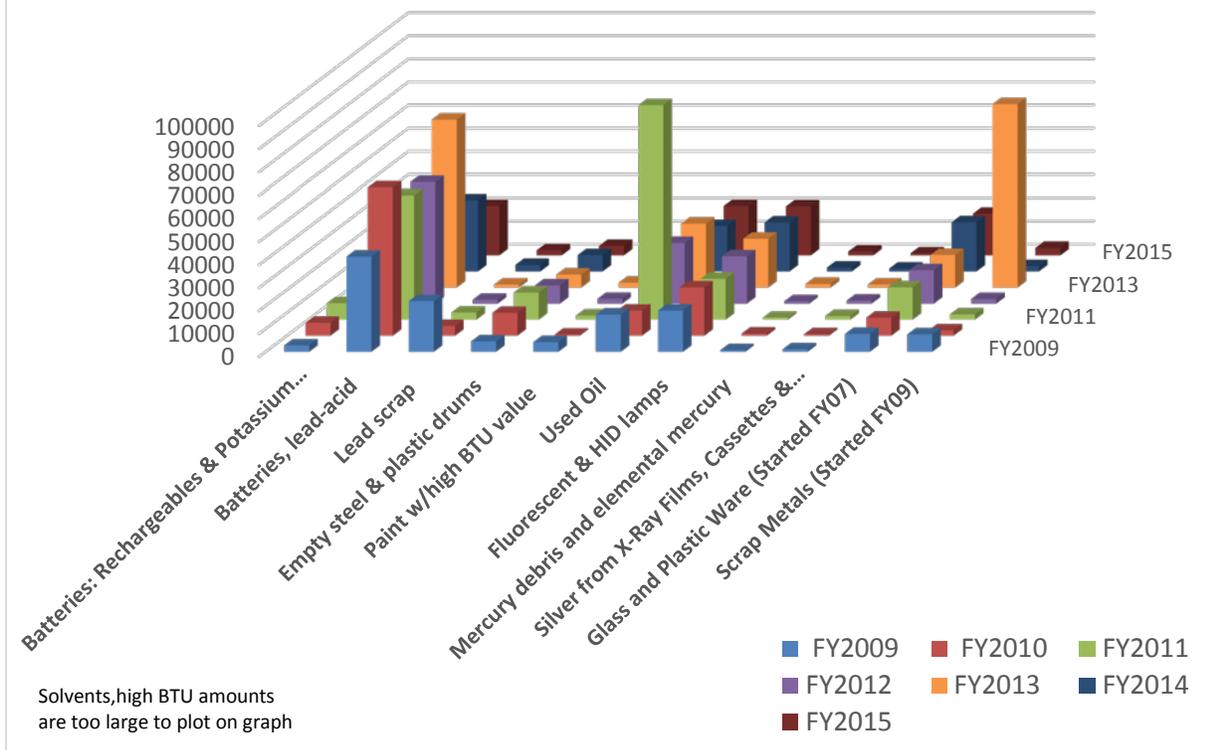
NIH's Chemical Waste Services (CWS) has an effective recycling program in place for most types of waste collected for beneficial reuse. The waste resource materials are securely packaged and shipped to NIH approved recycling facilities at a reasonable cost and rebate. These include:

- [batteries](#)
- [empty chemical bottles](#)
- [solvents with high BTU](#)
- used oil
- lead
- scrap metals
- [fluorescent & HID lamps, mercury \(elemental & debris\)](#)
- empty steel & plastic drums
- [silver from x-ray films, cassettes and recovery units](#)
- [surplus chemical redistribution on FreeStuff website: https://stuff.nih.gov/Home.aspx](#)
- [solvent recovery](#)

Through the chemical waste recycling program NIH has been successful in reducing the quantity of chemical waste that would otherwise be disposed in a manner that has a greater environmental impact. Recycled chemical waste is returned to the economic mainstream in the form of raw material for new products. The following table and graph summarizes the quantities of chemical waste that has been recycled.

Chemical Waste Streams Shipped Off-Site for Recycling (Lbs.)							
	Management Method	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
Batteries: Rechargeables and Alkalines	Metals and Alkaline Recovery (retort and smelting)	5618	7171	7907	8934	8011	8188
Batteries: lead-acid	Metal, plastic and acid recovery	64246	53883	52625	72573	30844	21420
Lead scrap	Retort or reuse	4248	3093	1674	1298	2870	2274
Empty steel and plastic drums	Recycle or Reuse	9970	11772	7931	5641	7119	4154
*Solvents, high BTU value	Fuels Blending	132858	191404	199562	196660	186155	189529
Paint w/high BTU value	Fuel Substitution	486	1804	2044	2084	951	3485
Used Oil	Fuels Blending	10909	92800	26403	27731	19712	21435
Fluorescent and HID lamps	Retort	21045	17795	20595	21248	21296	21256
Mercury debris and elemental mercury	Retort and Recovery	917	875	1003	1547	1696	1709
Used X-Ray Films, Cassettes and Cartridges	Silver recovery and reuse	610	1585	1275	1321	1280	920
Glass and Plastic Ware	Recycle and Reuse	7858	14052	14547	14150	21354	18049
Scrap Metals (Started FY09)	Smelting	2343	2251	2010	79245	2351	3289
Building Decommissioning waste	Recycle or Reuse	11473	4802	2852	10924	10943	61535
Recyclables from construction projects	Recycle or Reuse	0	7130	0	0	1592	190378
Total, Recycled		272,581	410,417	340,428	443,356	316175	547621
Total Disposed & Recycled		644,307	745,657	624,464	713,740	652222	946513
Percentage Recycled		42.31%	55.04%	54.52%	62.12%	48.48%	57.86%

Chemical Waste Diverted FY2009-15 (Lbs)



Outreach Information

[NIH Chemical Waste Recycling Program Brochure](#)

[Empty Chemical Bottle Recycling Article](#)

[Empty Chemical Bottle Recycling Flyer](#)

[NIH Chemical Waste Recycling Program Poster](#)

[NIH Free Stuff Recycling Promo Card](#)