



# U.S. DEPARTMENT OF **ENERGY**

## ***Environmental Management Recovery Act Program***

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Recovery Act Program Director

**PRESENTED TO:**  
Environmental Management Advisory Board  
(EMAB)

**December 5, 2011**



**EM** *Environmental Management*

safety ♦ performance ♦ cleanup ♦ closure

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# EM's Mission



“Complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development, production, and Government-sponsored nuclear energy research.”



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# EM's Recovery Act Program



- ◉ \$6 Billion at 17 sites (12 states)
- ◉ Accelerated existing scope
  - > Soil and groundwater remediation
  - > Radioactive solid waste disposition
  - > Facility decontamination & decommissioning
- ◉ Selected projects were “shovel-ready”
  - > Fully-defined cost, scope, and schedule
  - > Established regulatory framework
  - > Proven technology
  - > Proven performance
  - > Existing contract vehicles
- ◉ Particular focus on footprint reduction & small site closures.



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# Recovery Act Project Phases



Timing: April 2009 → Sep 2013

Phase Description



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# Recovery Act Funding Details



\$6B of Recovery Act funds supported 124 projects

- 84 have been physically completed (68% of total)
- Another 28 will be completed in FY 2012 (90% of total)
- 12 will be completed in FY 2013 (100% of total)

Site	Spend Plan	Obligated to Contracts	Payments to Date
Argonne National Laboratory	\$79,000,000	\$79,000,000	\$63,985,895
Brookhaven National Laboratory	\$70,810,000	\$70,810,000	\$70,807,883
Energy Technology Engineering Center	\$51,675,000	\$51,675,000	\$50,222,720
Hanford (Office of River Protection)	\$326,035,000	\$326,035,000	\$325,549,014
Hanford (Richland)	\$1,634,500,000	\$1,634,445,175	\$1,565,472,458
Idaho	\$467,875,000	\$467,875,000	\$429,221,625
Los Alamos National Laboratory	\$211,975,000	\$211,975,000	\$210,206,170
Moab	\$108,350,000	\$108,350,000	\$108,204,128
Mound	\$17,900,000	\$17,900,000	\$17,525,587
Nevada Nuclear Security Site	\$44,325,000	\$44,325,000	\$43,901,082
Oak Ridge	\$755,110,000	\$754,989,967	\$592,236,663
Paducah	\$80,400,000	\$80,400,000	\$78,980,729
Portsmouth	\$119,800,000	\$119,800,000	\$113,591,248
Savannah River	\$1,615,400,000	\$1,615,200,918	\$1,399,935,390
SLAC National Accelerator Laboratory	\$14,300,000	\$14,300,000	\$14,300,000
Separations Process Research Unit	\$58,575,000	\$58,575,000	\$57,564,224
Waste Isolation Pilot Plant	\$172,175,000	\$172,175,000	\$166,261,643
West Valley Demonstration Project	\$62,875,000	\$62,875,000	\$60,980,155
Title X Uranium/Thorium Reimbursements	\$70,000,000	\$69,996,978	\$54,994,235
Management & Oversight	\$27,920,000	\$27,698,061	\$26,002,311
<b>Total*</b>	<b>\$5,989,000,000</b>	<b>\$5,988,401,098</b>	<b>\$5,449,943,159</b>

Spend Plan Total does not include \$ 10 million reprogrammed to DOE Departmental Administration

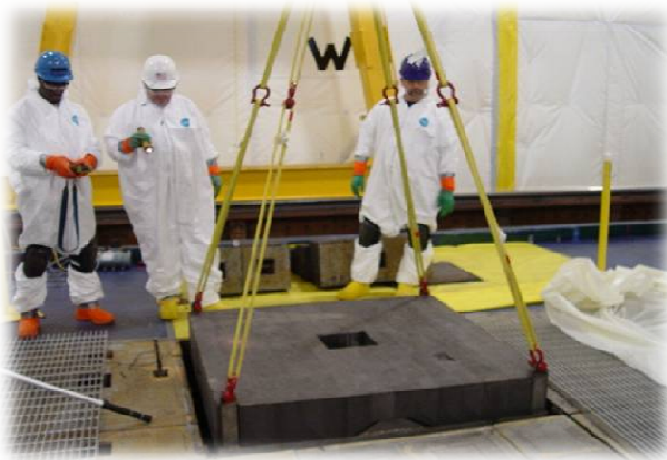


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# Project Management Oversight & Accountability



## Safety is the #1 priority for all EM Recovery Act projects.

- Maintain regular communications with regulators, Tribal Nations and stakeholders
- Fully implement DOE Order 413.3A
- Phased release of funding based on performance
  - > Integrates project, contract and funds management
- Conduct regular reviews to track and monitor performance
- On-site Headquarters representatives closely observe project performance
- External oversight reviews by the IG and GAO

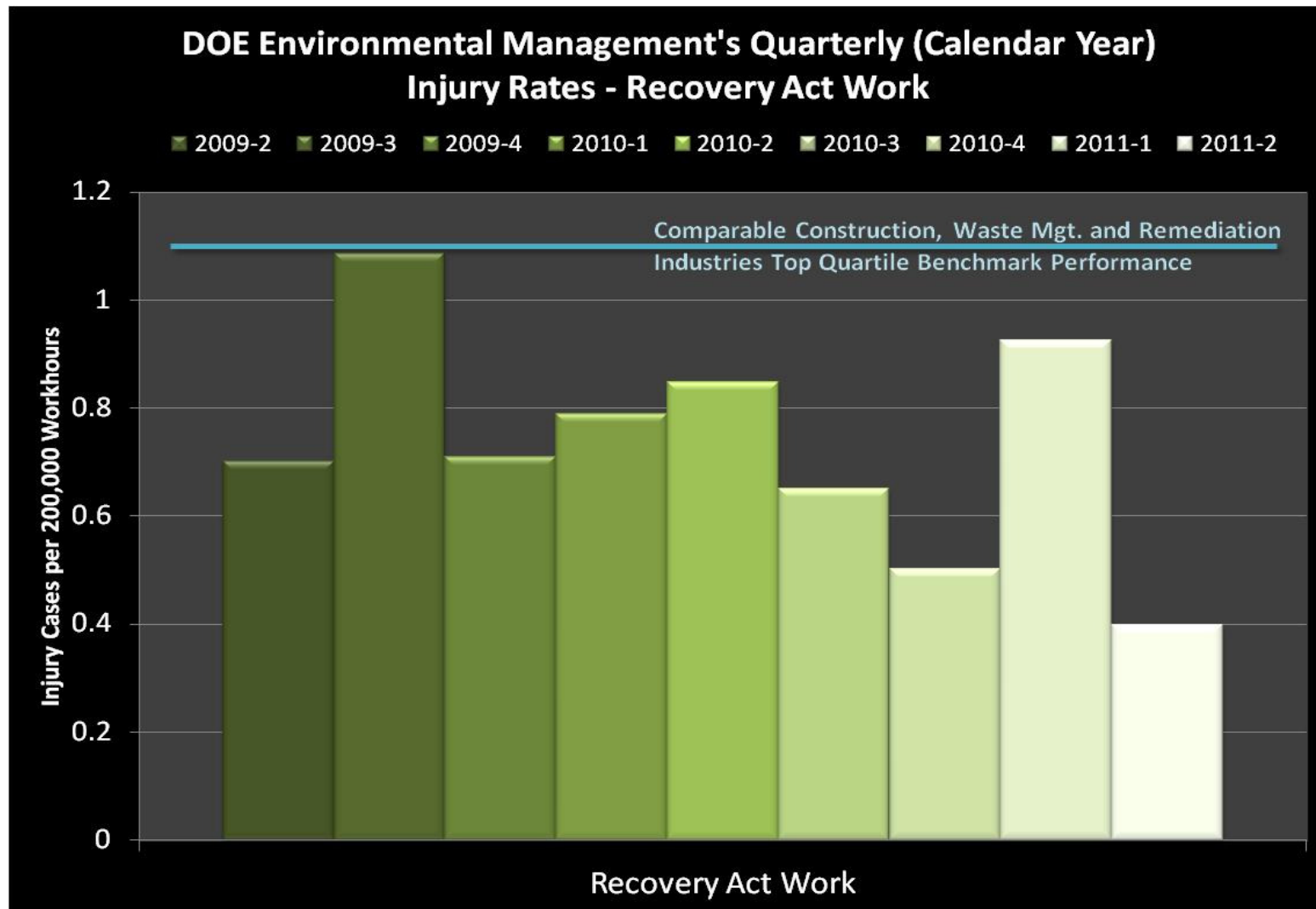


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# Safety and Health



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# Over 36,000 Workers Benefited from Recovery Act Funds



Reported EM Jobs Funded by the Recovery Act (3rd Quarter CY 2011)		
Site (State)	2011 FederalReporting.gov* Prime Contractor plus Subcontractor Jobs, July to September 2011	EM Recovery Act Headcount "Lives Touched" (Cumulative from start of project through September 30, 2011)
Argonne (IL)	101	506
Brookhaven (NY)	44	244
ETEC (CA)	16	296
Hanford-ORP (WA)**	424	2,953
Hanford-Richland (WA)	3,290	10,453
Idaho (ID)	683	2,303
Los Alamos (NM)	128	1,527
Moab (UT)	0	333
Mound (OH)	0	54
Nevada (NV)	27	804
Oak Ridge (TN)	1,120	8,706
Paducah (KY)	101	961
Portsmouth (OH)	145	1,236
Savannah River (SC)	1,327	4,396
SLAC (CA)	33	201
SPRU (NY)	41	608
West Valley (NY)	47	421
WIPP (NM)	342	696
Title X Uranium/Thorium	0	9
Program Direction	21	80
<b>TOTALS</b>	<b>7,891</b>	<b>36,787</b>

\* FTEs reported in FederalReporting.gov as of 10/27/2011



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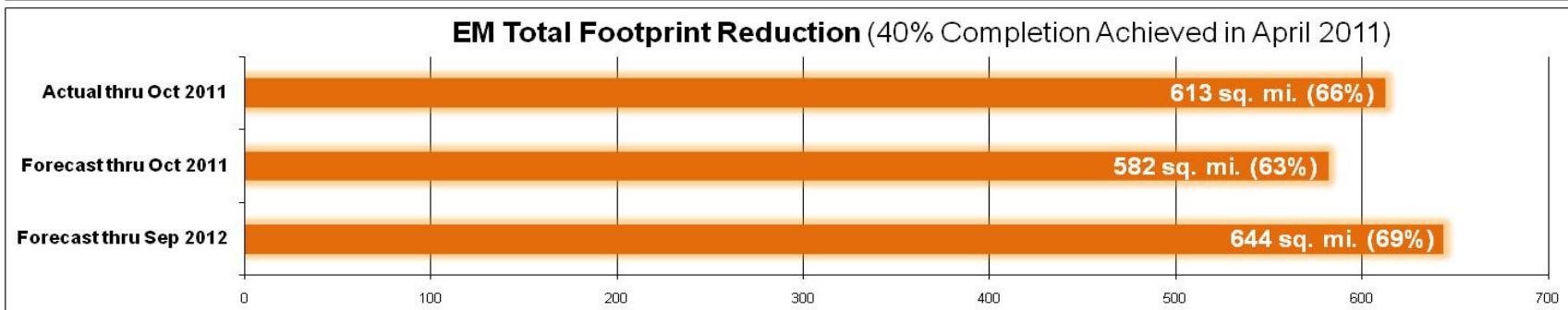
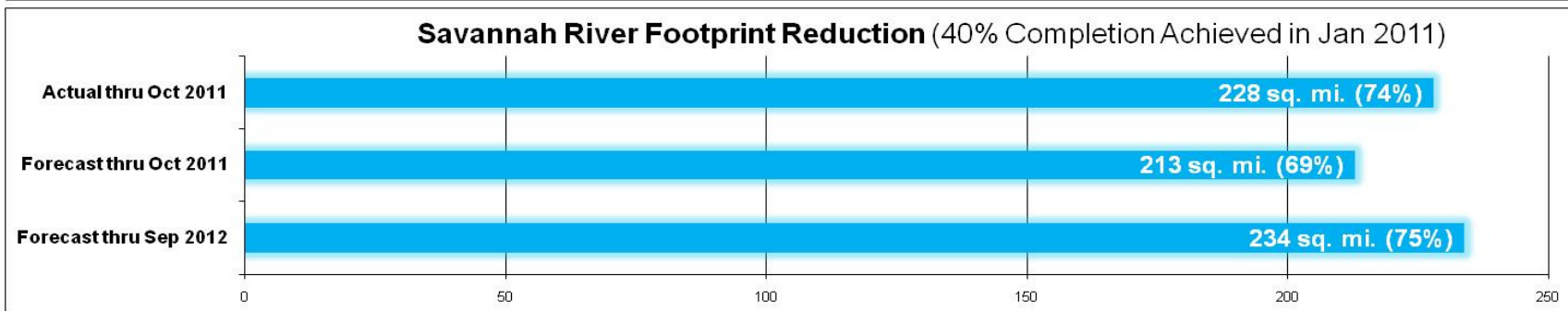
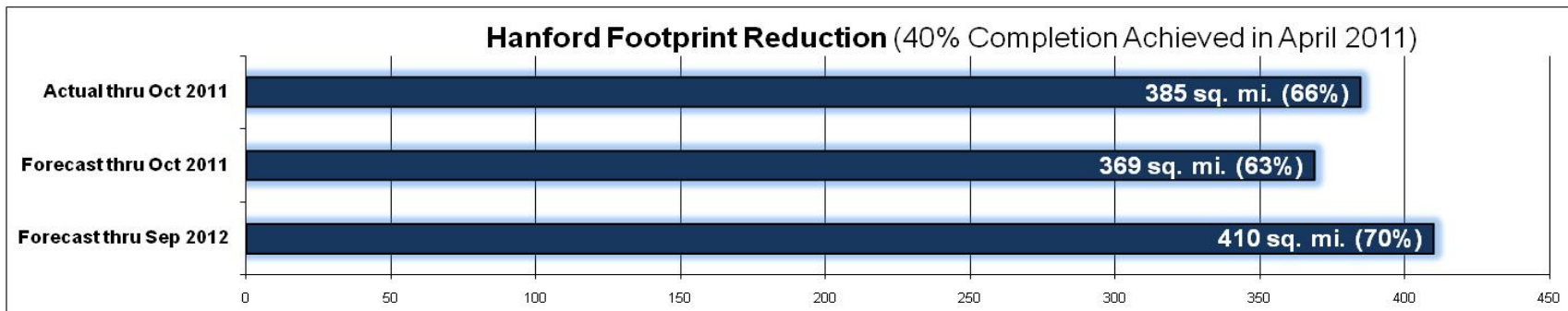
# Recovery Act Benefits



- Footprint Reduction
  - 66% footprint reduction (613 of 931 square miles) at Recovery Act sites – met 40% target five months ahead of schedule.
- \$7 Billion Life Cycle Cost Savings
  - Accelerating \$13 billion worth of out-year projects into the near term.
- Beneficial Use
  - Converting contaminated sites, facilities and materials into revitalized assets.
  - Local communities and local governments will look for new ways to diversify their economies.
  - The Department will transition sites for beneficial use.



# Footprint Reduction Status – October 2011



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# Recovery Act Financials



- Recovery Act allocation — \$6 Billion
- Obligated & paid out 90% by September 30, 2011
- Realizing savings & efficiencies enabling more work to be accomplished.
- Initiated total of 33 “buy back” projects at several sites.



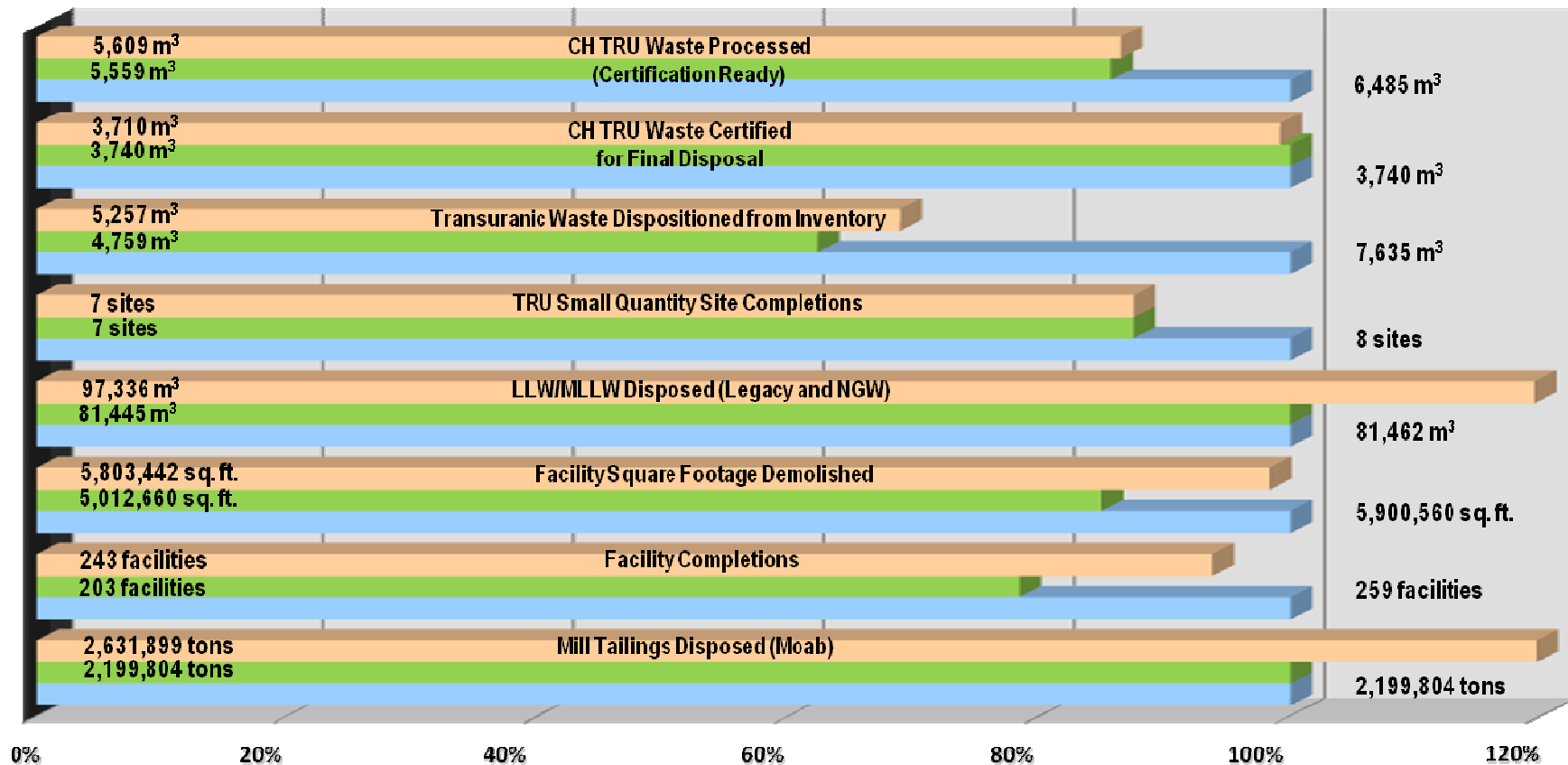
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# Recovery Act Performance To-Date



Actual to Date (10/31/11)  
 Target to Date (10/31/11)  
 ARRA Total



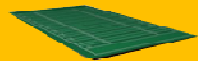





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# Performance Measures Accomplishments



Performance Measure	Overall ARRA Goals (Sept. 30, 2011)	October 31, 2011 Plan	Accomplishments (as of October 31, 2011)	
<b>Facility Square Footage Demolished</b> (square feet)	5,900,560	5,012,660	<b>5,803,442</b> (98% of goal)	= <b>101 football fields</b> 
<b>Mill Tailings Disposed</b> (tons)	2,199,804	2,199,804	<b>2,631,899</b> (120% of goal)	= <b>18,277 rail cars</b> 
<b>Contact-Handled Transuranic Waste Processed (certification-ready)</b> (cubic meters)	6,485	5,559	<b>5,609</b> (86% of goal)	= <b>26,941 55-gal drums</b> 
<b>Contact-Handled Transuranic Waste Certified for Final Disposal</b> (cubic meters)	3,740	3,740	<b>3,710</b> (99% of goal)	= <b>1,273 TRUPACT IIs (17,820 55-gal drums) (424 shipments)</b> 
<b>Transuranic Waste Inventory Dispositioned</b> (cubic meters)	7,635	4,759	<b>5,257</b> (69% of goal)	= <b>25,250 55-gal drums</b> 
<b>Low-Level and Mixed Low-Level Waste Permanently Disposed</b> (cubic meters)	81,462	81,445	<b>97,336</b> (119% of goal)	= <b>467,517 55-gal drums</b> 



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# Lessons Learned



- Developed the EM Recovery Act Portfolio Management Framework to separate Capital Assets and Project Activities
- Expedited Contract Definitization
- Project Cost efficiencies allowed for Buy-Back scope to be performed
- Implemented a Lessons Learned database to collect project data at every step of the project life-cycle rather than at closeout

