



Defense Environmental Management Program

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(Installations & Environment)
March 30, 2011**

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE 30 MAR 2011		2. REPORT TYPE		3. DATES COVERED 00-00-2011 to 00-00-2011	
4. TITLE AND SUBTITLE Defense Environmental Management Program				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Office of the Deputy Under Secretary of Defense (Installations & Environment), Environmental Management, 3400 Defense Pentagon, Room 3B856A, Washington, DC, 20301-3400				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the 2011 DoD Environmental Monitoring & Data Quality Workshop (EMDQ 2011), 28 Mar ? 1 Apr, Arlington, VA.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Today's Agenda

Acquisition, Technology and Logistics

- Importance of Quality Data
- Importance of Partnerships
- Where We Are Today
 - Budget
 - Cleanup Progress
- How Our Progress Informs the Future
- Future for the Military Munitions Response Program
- Future Trends



Importance of Quality Data

Acquisition, Technology and Logistics

- Good environmental data helps support
 - good decision making
 - defensible products

- At all levels
 - From the field
 - To the lab
 - To the leaders



Importance of Partnerships

Acquisition, Technology and Logistics

➤ Federal Partners

- Intergovernmental Data Quality Task Force (IDQTF)
- National Institute of Standards and Technology (NIST)
- Interstate Technology Resource Council (ITRC)
- Chemical & Material Risk Management Directorate
- Tri-Services Risk Assessment Workgroup

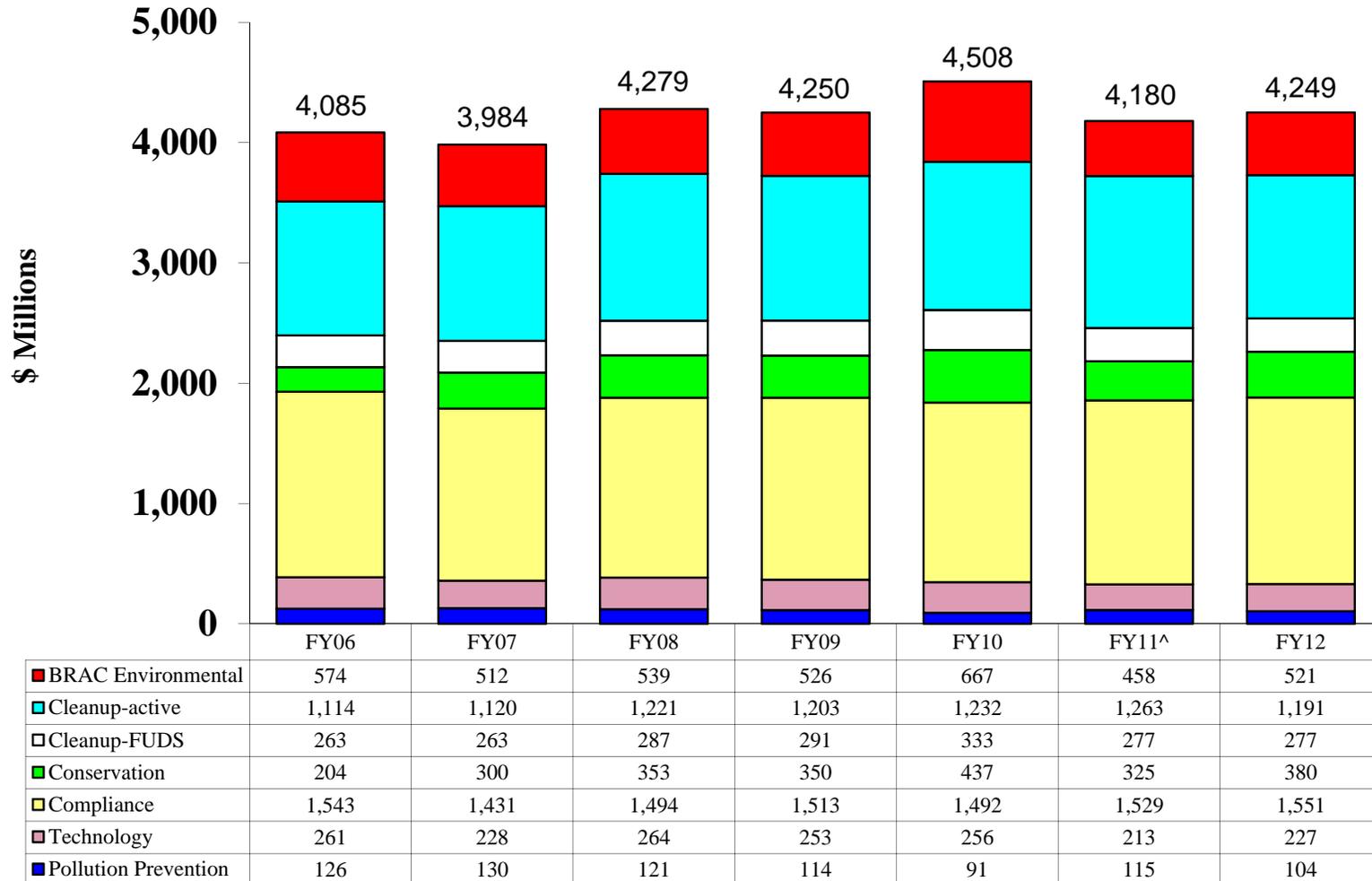
➤ Public/Private Partners

- The NELAC Institute (TNI)
- American Council of Independent Laboratories (ACIL)



Environmental Management Programs (\$ Millions)

Acquisition, Technology and Logistics

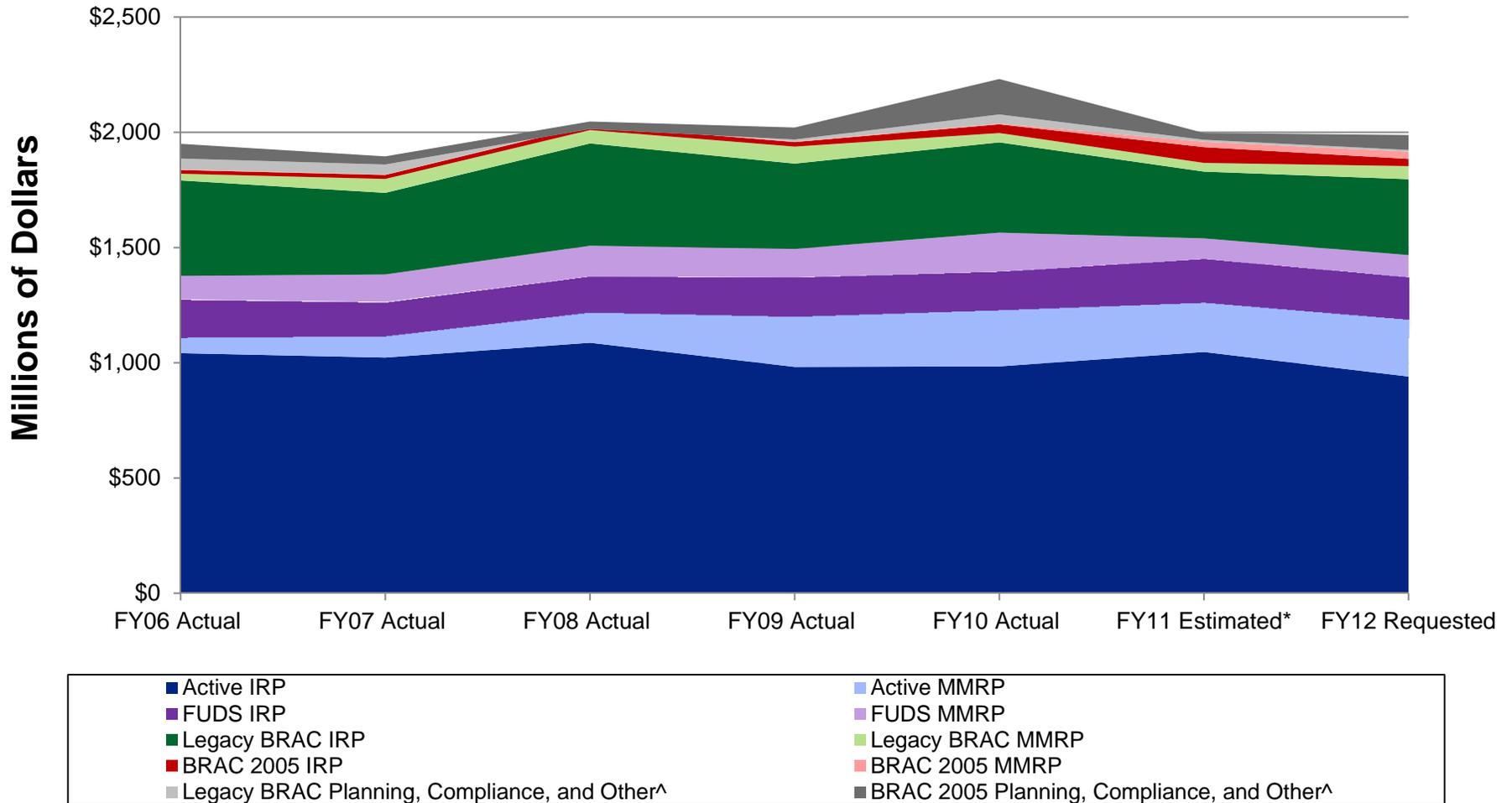


^ Reflects an adjustment to match the Annualized Continuing Resolution funding level by appropriation



Environmental Restoration Funding

DoD

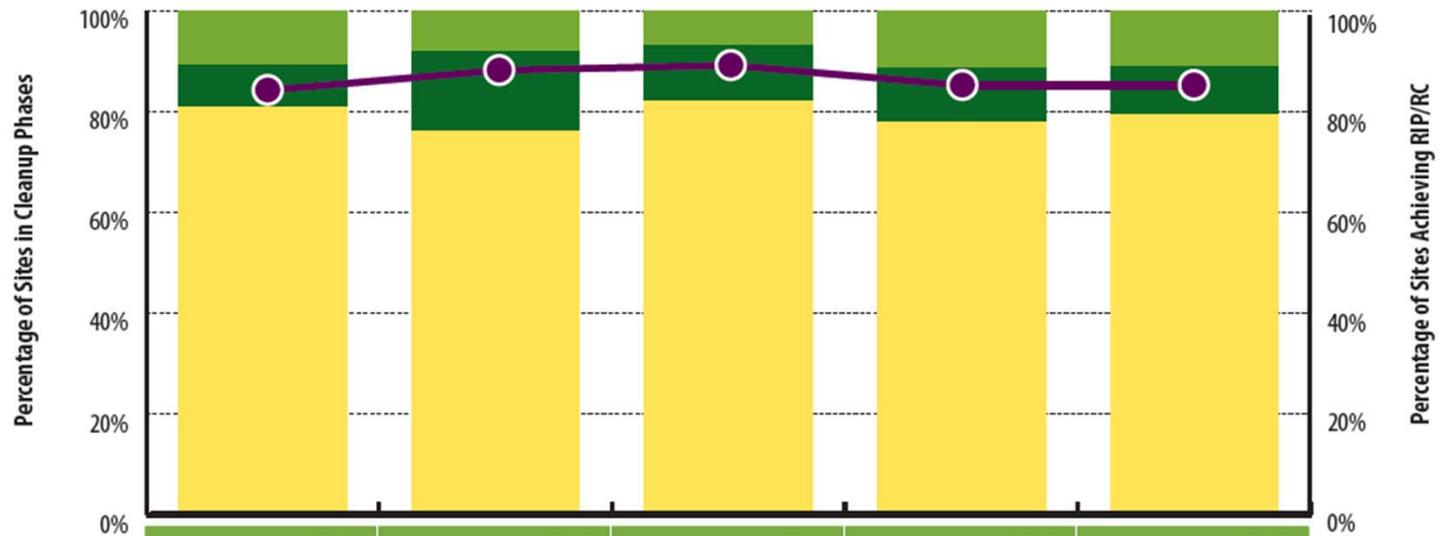


* Reflects an adjustment to match the Annualized Continuing Resolution funding level

^ Other may include revenue gained from land sales or execution of prior year funding



IRP Site Status at Active Installations



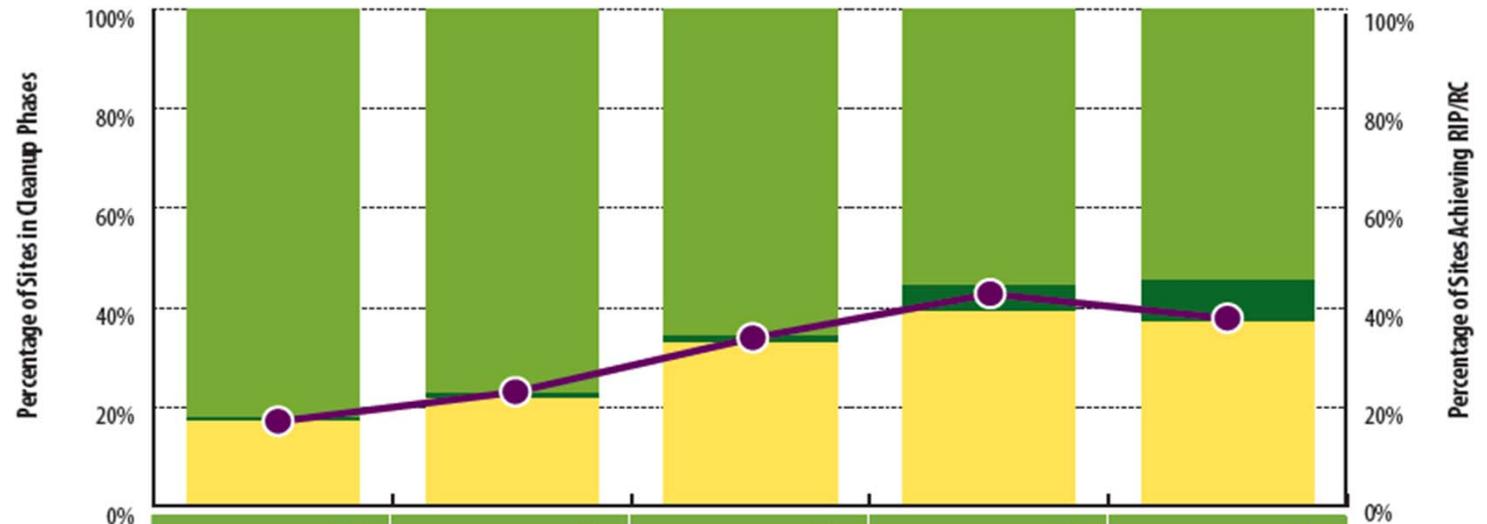
	FY06	FY07	FY08	FY09	FY10
● Investigation Planned or Underway	2,127	1,606	1,360	2,457	2,392
● Cleanup Planned or Underway	1,664	3,135	2,223	2,276	2,083
(Remedy in Place)*	(811)	(2,505)	(1,667)	(1,671)	(1,530)
● Response Complete	16,035	15,097	16,260	16,600	17,053
(LTM Underway)†	(709)	(638)	(758)	(829)	(905)
● Percent of Sites Achieving RIP/RC	85%	89%	90%	86%	86%
Total	19,826	19,838	19,843	21,333	21,528

* Remedy in Place is a subset of Cleanup Planned or Underway.

† LTM is a subset of Response Complete.



MMRP Site Status at Active Installations



	FY06	FY07	FY08	FY09	FY10
● Investigation Planned or Underway	1,076	1,198	1,097	1,013	1,329
● Cleanup Planned or Underway	8	15	23	96	199
(Remedy in Place)*	(0)	(12)	(11)	(60)	(31)
● Response Complete	226	337	550	718	905
(LTM Underway)†	(3)	(2)	(2)	(9)	(7)
● Percent of Sites Achieving RIP/RC	17%	23%	34%	43%	38%
Total	1,310	1,550	1,670	1,827	2,433

* Remedy in Place is a subset of Cleanup Planned or Underway.

† LTM is a subset of Response Complete.



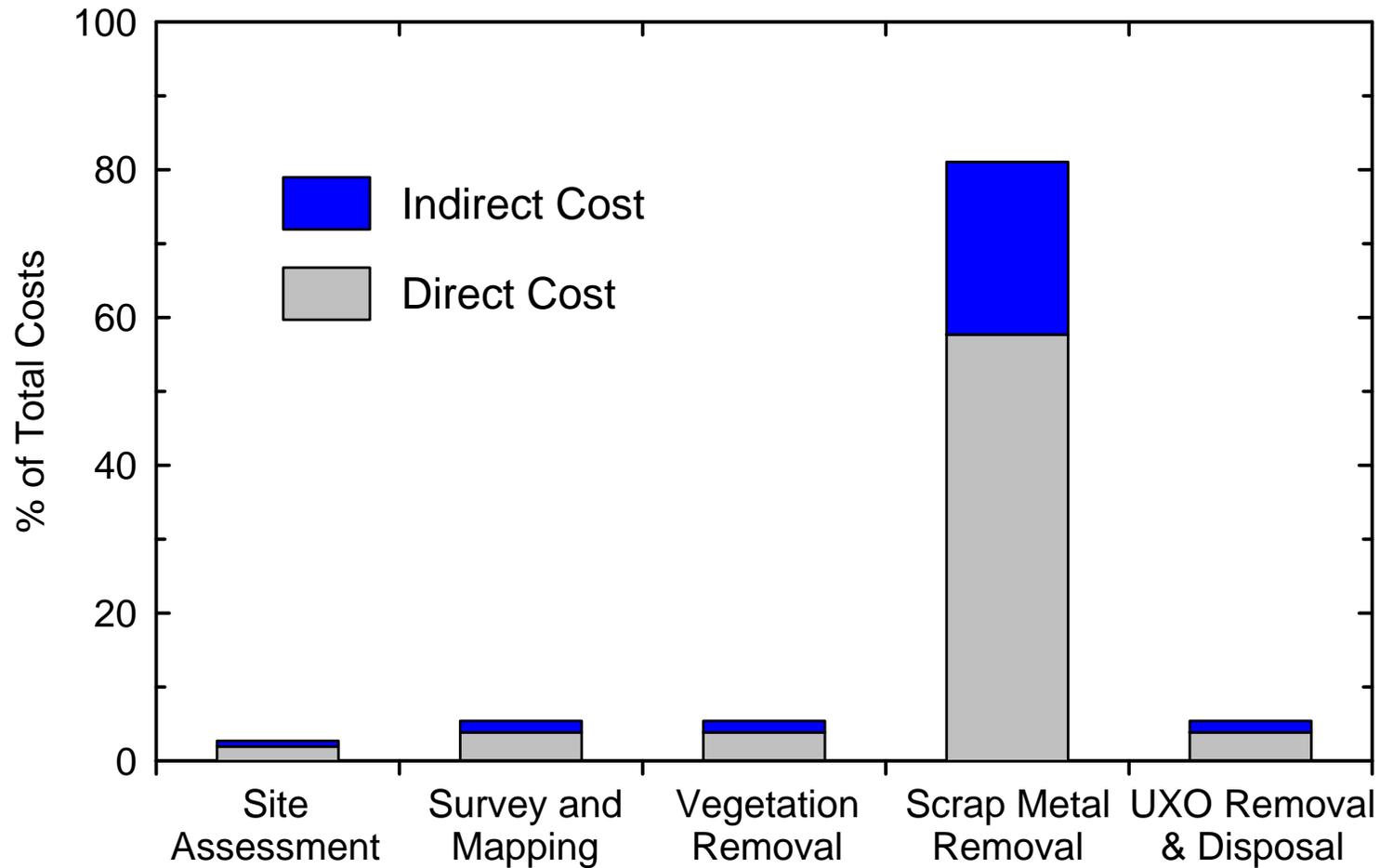
What's Next for Cleanup

- **What is after the Goal to have all of the Remedies in Place or Responses Complete by the end of Fiscal Year 2014?**
- **Focus on the latter phases of the cleanup program**
 - Achieving Response Complete (RC)?
 - What are our Long-term Management requirements?
 - What is Site Close Out? How do we get there?
- **The next generation of metrics will:**
 - Drive programming, planning, budgeting, and execution
 - Help the DoD Components defend their budgets

What are the data needs?



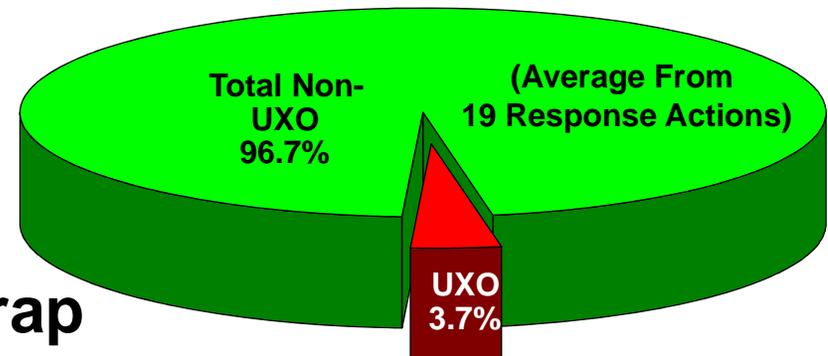
Defense Science Board UXO Clean-up Cost Break Out





Why Discriminate?

- **Excavation of suspected UXO drives cost and time**
- **Less than 4% of excavations are UXO**
 - Usually <1%
 - Ex. Camp Butner
 - 7 items out of > 100,000 digs
- **Most items are harmless scrap**
- **Technology can now discriminate UXO from scrap**
 - Result of a decade of R&D
 - Proof of concept demonstrated at three real live sites (FUDS)





Live Site UXO Discrimination Demonstrations

➤ **Goals:**

- Accelerate the pace of cleanup
- Reduce Risk
- Reduce Cost

➤ **Objectives:**

- Make sure the technology works -- different munitions, depths, and terrains
- Establish operational procedures and costs
- Train government and contractor community
- Gain regulatory acceptance



Demonstrations to Date

➤ **Completed**

- Former Camp Sibert, AL – simple site, single munitions type
- Former Camp San Luis Obispo, CA – more difficult, mix of munitions
- Former Camp Butner, NC – small munitions (37 mm)

➤ **Ongoing**

- Mare Island Naval Shipyard, CA – industrial site
- Pole Mountain, WY – case study in implementation
- Former Camp Beale, CA – trees, restricted access
- Site TBD

➤ **Planned – additional demonstrations in FY12, FY13, and FY14**



Live Site UXO Discrimination Demonstrations

What are we asking of the States?

- **Participate as site team members – both technical and policy representatives**
- **Host training opportunities**
- **Assist in implementation of the demonstrated technologies at your sites**
- **Nominate demonstration sites**
- **Engage more states**

What are our data needs?



DoD Laboratory Accreditation Program

Acquisition, Technology and Logistics

- Promote reciprocity;
- Promote fair and open competition;
- Streamline the procurement process for laboratory services; and
- Promote the collection of data of known and documented quality, suitable for their intended uses

Currently there are 75 accredited labs. List can be found at:
www.denix.osd.mil/edqw/Accreditation/index.cfm



Future Trends

Acquisition, Technology and Logistics

- The Technology Evolution:
 - New sampling methods
 - New testing methods
 - Need to keep QA/QC procedures current
- Are you staying current?



Questions?

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<https://www.denix.osd.mil/portal/page/portal/denix>



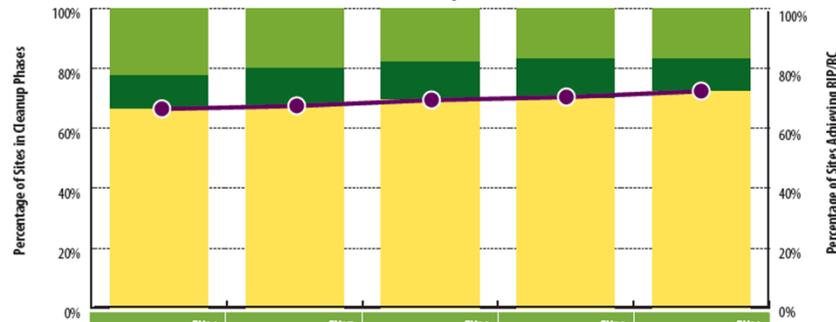
Backup/Information slide



Cleanup Progress -- FUDS

IRP Site Status

Goal: Achieve RIP/RC by the end of FY2020

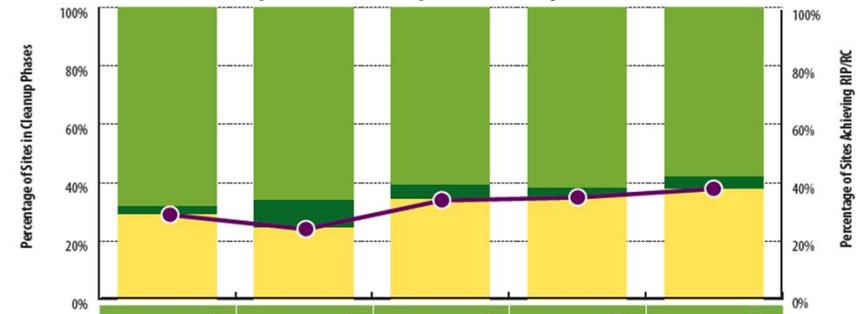


	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	673	602	547	491	492
Cleanup Planned or Underway	340	386	383	366	319
(Remedy in Place)*	(6)	(10)	(14)	(14)	(7)
Response Complete	2,008	2,046	2,114	2,022	2,110
(LTM Underway)†	(21)	(32)	(38)	(45)	(50)
Percent of Sites Achieving RIP/RC	67%	68%	70%	71%	72%
Total	3,021	3,034	3,044	2,879	2,921

* Remedy in Place is a subset of Cleanup Planned or Underway.
 † LTM is a subset of Response Complete.

MMRP Site Status

Goals: Complete preliminary assessments by the end of FY2007; complete site inspections by the end of FY2010



	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	1,112	1,088	1,014	999	990
Cleanup Planned or Underway	48	159	79	52	73
(Remedy in Place)*	(0)	(0)	(0)	(0)	(0)
Response Complete	473	403	568	561	640
(LTM Underway)†	(12)	(15)	(17)	(18)	(20)
Percent of Sites Achieving RIP/RC	29%	24%	34%	35%	38%
Total	1,633	1,650	1,661	1,612	1,703

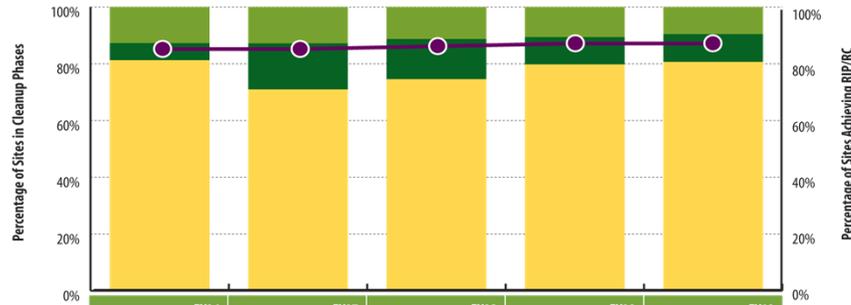
* Remedy in Place is a subset of Cleanup Planned or Underway.
 † LTM is a subset of Response Complete.



Cleanup Progress – Legacy BRAC

IRP Site Status

Goal: Achieve RIP/RC by the end of FY2015

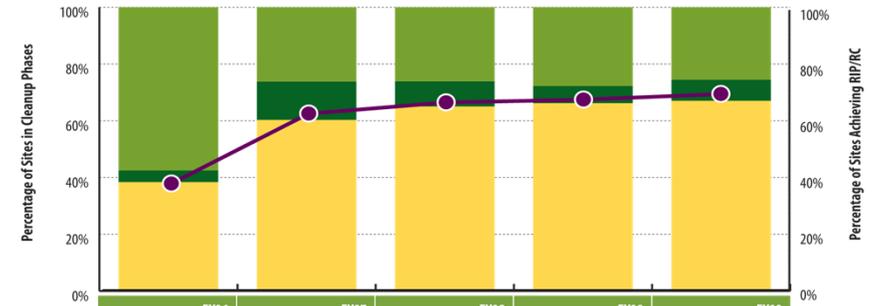


Phase	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	626	636	560	529	474
Cleanup Planned or Underway	295	806	704	478	484
(Remedy in Place)*	(218)	(730)	(623)	(386)	(360)
Response Complete	3,994	3,520	3,701	3,968	3,995
(LTM Underway)†	(362)	(368)	(399)	(388)	(374)
Total	4,915	4,962	4,965	4,975	4,953

* Remedy in Place is a subset of Cleanup Planned or Underway.
 † LTM is a subset of Response Complete.

MMRP Site Status

Goal: Achieve RIP/RC by the end of FY2009



Phase	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	183	74	74	79	73
Cleanup Planned or Underway	13	38	25	17	21
(Remedy in Place)*	(0)	(7)	(6)	(4)	(9)
Response Complete	122	170	184	188	191
(LTM Underway)†	(11)	(17)	(17)	(20)	(19)
Total	318	282	283	284	285

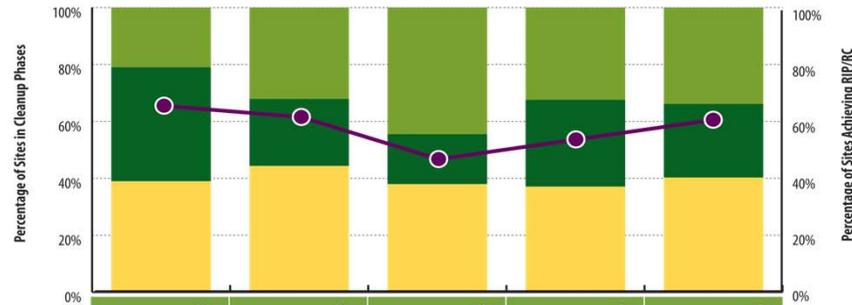
* Remedy in Place is a subset of Cleanup Planned or Underway.
 † LTM is a subset of Response Complete.



Cleanup Progress – BRAC 2005

IRP Site Status

Goal: Achieve RIP/RC by the end of FY2014



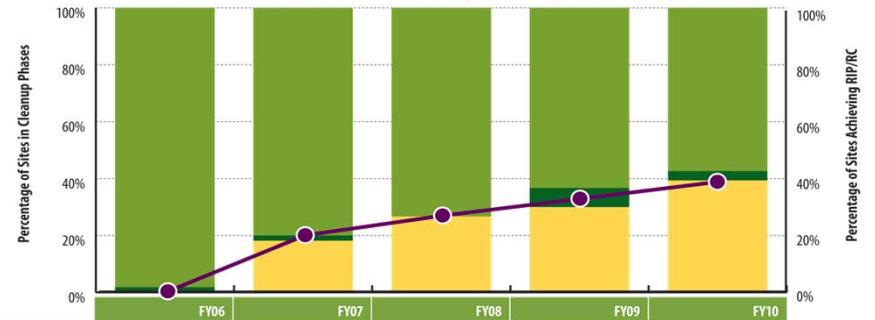
	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	20	37	61	49	59
Cleanup Planned or Underway (Remedy in Place)*	38 (26)	27 (20)	24 (13)	46 (25)	45 (36)
Response Complete (LTM Underway)†	37 (19)	51 (17)	52 (24)	56 (20)	70 (29)
Percent of Sites Achieving RIP/RC	66%	62%	47%	54%	61%
Total	95	115	137	151	174

* Remedy in Place is a subset of Cleanup Planned or Underway.

† LTM is a subset of Response Complete.

MMRP Site Status

Goal: Achieve RIP/RC by the end of FY2017



	FY06	FY07	FY08	FY09	FY10
Investigation Planned or Underway	54	44	44	38	35
Cleanup Planned or Underway (Remedy in Place)*	1 (0)	1 (1)	0 (0)	4 (2)	2 (0)
Response Complete (LTM Underway)†	0 (0)	10 (0)	16 (0)	18 (0)	24 (1)
Percent of Sites Achieving RIP/RC	0%	20%	27%	33%	39%
Total	55	55	60	60	61

* Remedy in Place is a subset of Cleanup Planned or Underway.

† LTM is a subset of Response Complete.