



Chicago Operations Office
EM 2002 Mid Year Review

**ARGONNE NATIONAL
LABORATORY- East**

Andrew Gabel

June 6&7, 2002





FY02 Major Accomplishments

Remedial Projects

- NFA received SWMU 180
- 300 Area**
- Completed Characterization and RESRAD Analysis of 317 Area Deep Vault and North Vault
- Decontamination Prior to Demolition Underway for Deep Vault
- North Vault Expected to Remain in Service



FY02 Major Accomplishments

(Remedial Projects Continued)

300 Area

- Construction Work Plan for SWMU 498 forwarded to IEPA
- Completed Work Plan for Enhancements of 317 Area Remedial Actions



FY02 Major Accomplishments

(Remedial Projects Continued)

800 Area

- SWMU 744 Construction Work Plan Approved by IEPA
- Final Construction Report and NFA Request submitted to IEPA for AOC-F



FY02 Major Accomplishments

(Remedial Projects Continued)

Rest of Site

- SWMU 150 Construction Work Plan Approved by IEPA
- SWMU 179 Tier 3 Ecological & Human Health Risk Assessment Report and Request for NFA forwarded to IEPA



FY02 Major Accomplishments

(Remedial Projects Continued)



The PFS WMO worker prepares to enter the containment hood over a Deep Vault cell to remove paint from the inside of the cell.



PFS-ERP Field geologist is collecting groundwater samples from GMZ perimeter monitoring well.

FY02 Major Accomplishments

(Remedial Projects Continued)

Area Deep Vault 317, ANL-E Waste Management & Mechanics are instructed in the operation and maintenance of the Vac-U Blaster system.



ANL-E drilling contractor is lowering well pipe into a borehole south of the phytoremediation area and groundwater extraction system



FY02 Major Accomplishments

(Remedial Projects Continued)



Excavation Proceeds at SWMU 150, Former Bldg. 34
Liquid Mixed Waste Site



Release Site Status

➤ Total ANL-E EM Release Sites	520
» Completed prior to FY99	<u>463</u>
» Total SWMU's on Permit	57
» NFA Approval Received from IEPA	38
» NFA request under Review by IEPA	7
» FY02-04 Projected Completions/NFA Requests	12



FY02 Major Milestones

(Remedial Actions Project Continued)

<i>Description</i>	<i>Plan</i>	<i>Actual</i>
317 Area Deep Vault Assessment (SWMU 743) (Radiological Characterization)	2 nd Quarter FY02	12/2001
317 Area North Vault Assessment (SWMU 747) (Radiological Characterization)	2 nd Quarter FY02	12/2001
Contaminated Soil Near Building 827 (AOC-F)	1 st Quarter FY02	7/31/2002 (F)



FY02 Major Accomplishments D&D Projects

- Juggernaut & ZPR Characterization Reports Received
- D&D of 10 Tanks in Building 310 Completed, Final Survey Pending
- Building 301 Phase 1 Contract Completed & Project Closed Down



FY 02 Milestones D&D

Milestone Description

Plan

Actual

Bldg. 301 DD68 Complete	02/28/02	12/13/01
Bldg. 301 DD69 Complete	04/30/02	12/07/01
Bldg. 301 DD70 Complete	04/30/02	10/30/01
Bldg 310 Tanks DD59 Complete	03/29/02	06/30/02 (F)
Bldg 310 Tank Rooms Complete	03/29/02	06/30/02 (F)
Bldg 310 D&D Project Complete	05/31/02	07/30/02 (F)



D&D Projects

D&D Technician Torch cutting rebar during Cave 5 demolition



D&D Technicians erecting a gantry crane in support of Pu Glove Box packaging operations



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D&D Projects

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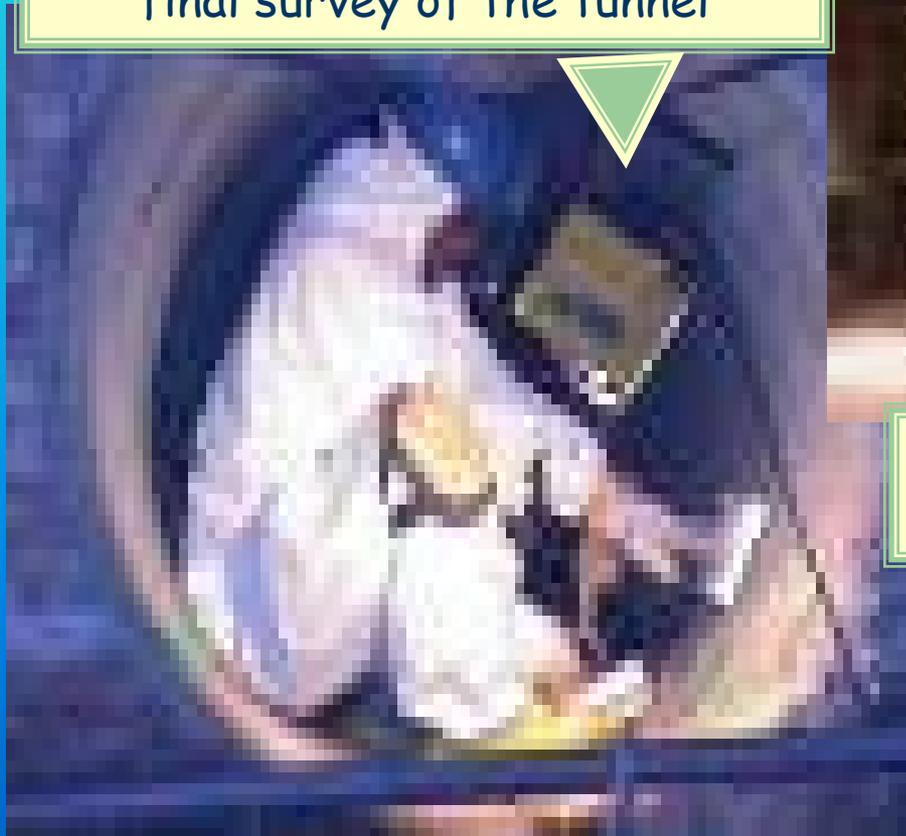
Cave 5 during demolition after BROKK operations





D&D Projects

A PFS/WMO/HP Technician in the process of performing the final survey of the tunnel



Room A-026A after the catwalk has been removed



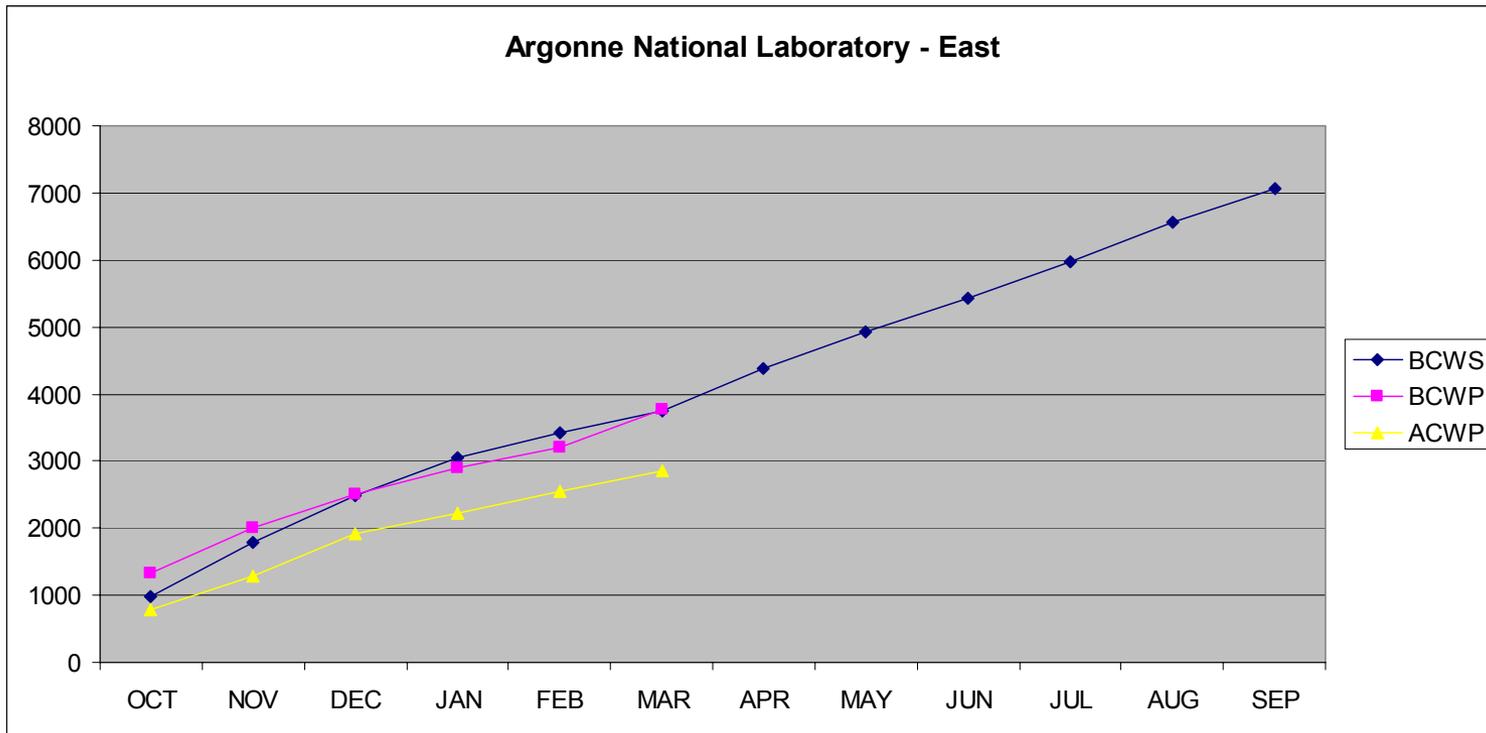
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FY02 Performance Per Approved Cost Plan

BCWS Shown
is from
Approved
FY02 Work
Authorizations
Consistent
with Jan. 02
BCP



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
BCWS	971	1795	2477	3059	3419	3754	4385	4937	5425	5973	6570
BCWP	1324	1999	2510	2895	3209	3764					
ACWP	778	1281	1908	2221	2552	2845					
CV	546	718	602	674	657	919					
SV	353	204	33	-164	-210	10					



Schedule Variance Analysis

BCWS = \$3753K

BCWP = \$3764K

SV = \$11K

Variance Explanation:

Variance is within the threshold



Cost Variance Analysis

BCWP = \$3764K

ACWP = \$2845K

CV=\$919K

Variance Explanation:

Variance is within the threshold.

Actual Savings at Year End expected to be substantially less than \$919K, BCWP shown is \$415K too high, due to accounting error.



Uncosted Summary

UNCOSTED SUMMARY \$ x 1,000

Uncosted Summary								
as of March 30, 2002								
					Current Year Uncosted Obligations			
Category	Prior	Current	Total	Current		Approved		
and	Year	Year	Funds	Year	Contractor	Work		
Installation	Carryover	Obligations	Available	Costs	Encumb	Scope	Unencum	Total
ANL-E	3189	3234	6423	2845	900	2678	0	3578



EM CONTACT HANDLED TRU WASTE

- No EM Legacy Wastes at ANL-E except TRU
- Contact Handled TRU now being Characterized by Westinghouse TRU Solutions
- WTS working via CBFO's Central Characterization Project, Mobilized on site January 2001
- Multiple new systems introduced at ANL-E
- CBFO Program Evaluation June 2002, CBFO audit July 2002
- Shipment anticipated FY 2003



EM CONTACT HANDLED TRU WASTE

- EM Directed Characterization of Missouri University Research Reactor TRU at ANL-E
- Seven Drums of Mixed TRU, ANL and AAO Seeking RCRA Permit Modification
- MOA Anticipated to Define Roles, Accept Plan (CH, OK, CBFO)
- Close Coordination with IL Department of Nuclear Safety Needed

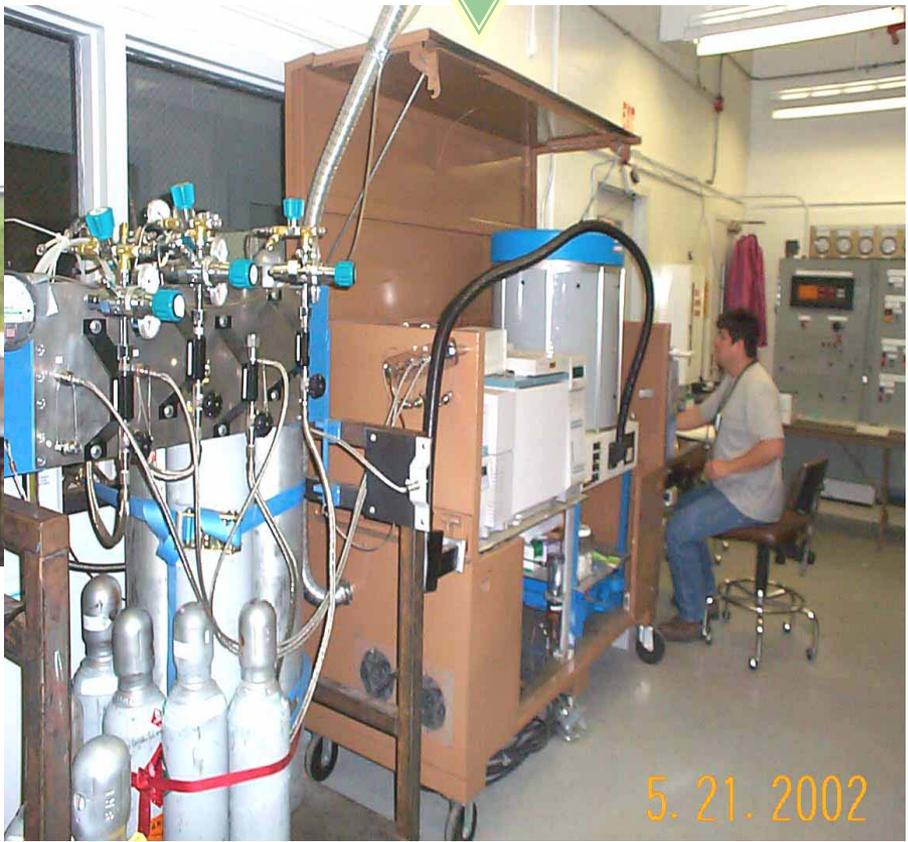


EM TRU WASTE *cont.*

NTS Operator at work on the Head Space Gas Analysis Unit, Bldg. 306, ANL-E



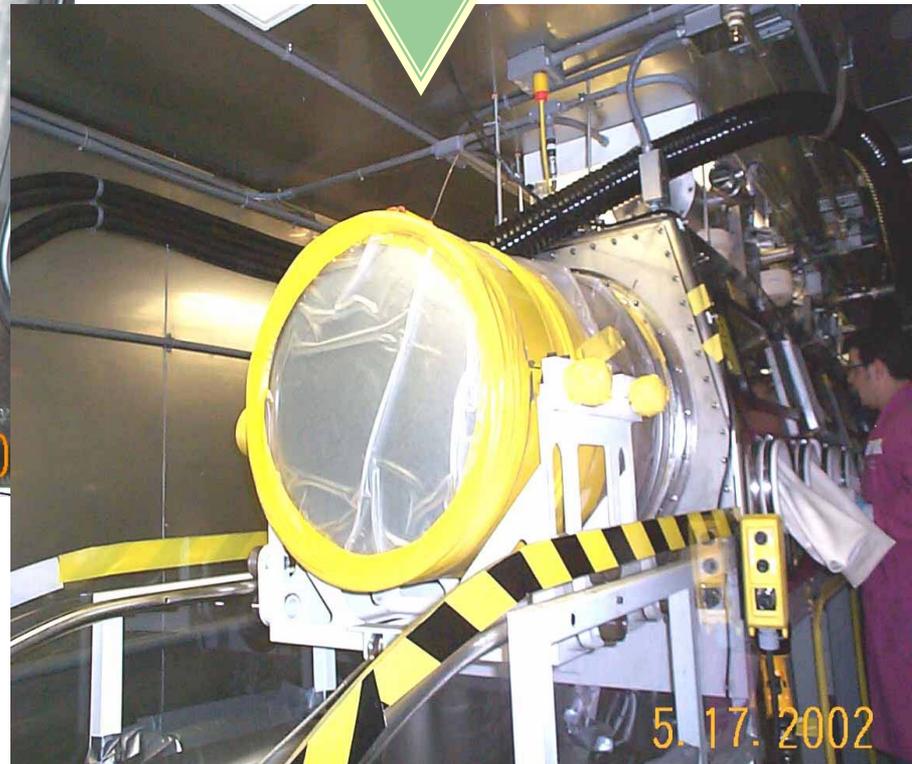
ANL staff are responsible for all Drum Logistics, Shown loading a CH TRU Drum into the NDE Station



EM TRU WASTE *cont.*



Loading CH TRU Drum into "MOVER", Visual Examination Station



NTS Operator Inspects CH TRU Waste in the "MOVER" Glove Box



EM TRU WASTE *cont.*

Typical Unique R&D Waste Form,
Highly Variable Debris



After VE is in the MOVER CH
TRU is Re-Package in WIPP
ready drum



View Inside
the MOVER,
Looking at
Glove Ports
and the
Inlet Port



“Top to Bottom” Stakeholder, Contract Topics

- Communication with stakeholders:
 - Community Leaders Round Table (CLRT) Informed of EM Budget Cuts
 - Focus on Environmental Topics Expected for June Meeting
 - Close Coordination with IEPA, IDNS regarding TRU Waste
- DOE-CH and ANL working with EM HQ on “White Paper” Proposal to Restart D&D
- If Approved, Prompt D&D Restart Would Avoid Substantial Cost Increase
- ANL Mid-Year Self Assessment Under Review, No Major EM Issues



FY02 Safety, Health and Project Management

- Lost Workday Case Rate for all ANL was 1.00, First Six Months of FY02
- Rate is Down From FY01
- Historically, ANL has been Lower than Average SC Lab (CY2000 data)
- No ORPS Reports Initiated First Half FY02, Associated with EM Funded Cleanups



FY02 Safety, Health and Project Management



Independent Oversight & Performance Assessment Completed Site Audit May 2002

- 16 Person Team Focused on ES&H and Emergency Management
- Draft Report Lists 11 ES&H Findings
- Draft Corrective Action Plan Due June 3, 2002
- Do Not Anticipate Significant Impacts to EM Funded Work



FY02 Safety, Health and Project Management

- AAO Developed Project Management Specialist Position Within ESP Team
- Early Actions Include Revisions to AAO SOP's and Validation of ANL-E PM System
- ANL-E EM Projects Not Listed on HQ List of Major Projects
- BCP is Pending HQ Action Regarding Stoppage of D&D Work
- BCP is Expected 3rd Quarter FY02 Regarding Enhancements to 317 Phytoremediation



PROJECT ISSUES

- FY02 Directed Shutdown of D&D Facility Cleanups Prevents FY03 Site Completion
- D&D Restart Assumption Guidance Pushes Completion to FY09, Significant Cost Increase, Project Forced from Risk Reduction to Risk Management
- Congressional FY03 Budget Pushes RCRA Cleanup Completion out to FY04



PROJECT ISSUES – *cont.*

- Major Cost & Schedule Savings from 1994 Baseline Will Slip Away Unless Current Policy is Reversed
- If D&D Restarted FY04 or Sooner, Most Projected Cost Increase Still Avoidable, Opportunity to “Re-accelerate” Closure of ANL-E Small Site Not Yet Lost
- CH TRU Effort Progressing Slowly, Will Require Modest Additional FY02 Funding for ANL Costs
- Path Forward for EM “Pipeline” Scope Not Clear