Miamisburg Closure Project OU-1 Baseline Summary June 2008

BACKGROUND

The Miamisburg Mound plant was built in the late 1940s to support research and development, testing, and production activities for DOE's defense nuclear weapons complex and energy research programs. The plant's mission involved production of components, which contained plutonium-238, polonium-210, tritium, and large quantities of high explosives. This mission continued until 1994, when these activities were transferred to other DOE facilities. In 1989, the Mound site was placed on the United States Environmental Protection Agency's National Priorities List.

Although a final Record of Decision was issued in 1995 for a former Mound landfill, Operable Unit One (OU-1), the City of Miamisburg remained concerned over the potential public health and reuse impacts of the remaining landfill. In response to these concerns, Congress provided \$30,000,000 and directed the DOE in November 2005 to take additional remedial actions at OU-1. It was decided to complete the ongoing Miamisburg Closure Contract and to accomplish this additional work under a separate contract.

The Miamisburg Closure Project contractor declared physical completion July 31, 2006, and DOE accepted completion of that scope in March 2007. A task order under an existing Indefinite Delivery, Indefinite Quantity contract was awarded in October 2006 for the OU-1 work.

SCOPE DESCRIPTION

The OU-1 Project consists of two distinct projects: the OU-1 Project and the Potential Release Site 441 (PRS 441) Project. The primary concern within the OU-1 area consists of residual contamination within a Site Sanitary Landfill that sits on top of an older Historic Waste Disposal Area. Congress has appropriated \$30M for this project. The goal of the PRS 441 (rail load out area) Project is to be compliant with the requirements defined by CERCLA as implemented by the Mound 2000 Work Plan. Funding for the PRS 441 Project scope is provided separately from the funding appropriated by Congress for the OU-1 Project scope.

End States and End Dates

The Miamisburg Closure Project contractor declared physical completion in July 2006, and DOE completed their physical acceptance review and declared physical acceptance in March 2007. The DOE Office of Legacy Management accepted custodianship of the site in October 2006. Transfer of this work scope for full operational responsibility for

the site in FY 2010 is pending final negotiations between EM and the Office of Legacy Management and completion of formal transfer documentation.

Except for funds reserved to return the OU-1 Landfill to a protective state, the \$30,000,000 provided by Congress and an additional \$4,500,000 provided by DOE-EM, has been expended. The contractor is currently backfilling the excavated areas and returning them to a protective state. Depending on weather conditions, completion of backfilling is expected in April 2008. According to current estimates, over 12,000 cubic yards of LLW remain within the OU-1 landfill footprint. The City of Miamisburg continues to petition Congress for additional funding.

Remediation of the PRS 441 rail yard will be completed upon reaching compliance with the Mound 2000 clean-up goals. This work is scheduled to be completed in July 2008.

The PRS 7 work will be completed upon removal of the off-site sewer line. Completion is expected in May 2008.

Upon final verification surveys of the PRS 7 work area, DOE will be able to complete the Record of Decision for Parcels 6, 7 and 8. These parcels will then be offered to the Miamisburg Mound Community Improvement Corporation for transfer by the end of FY 09.

Upon final verification surveys of the PRS 7 work area, DOE will be able to complete the Amended Record of Decision for OU-1. This parcel will then be offered to the Miamisburg Mound Community Improvement Corporation for transfer by the end of FY 09. This will complete the transfer of all remaining parcels of the Mound Plant, except for two areas: Building 126 and adjoining land which will be used by DOE-LM; and a portion of the OU-1 Landfill area having a no-dig institutional control. These areas of the original Mound Site will continue to be owned by the Department of Energy.

PROJECT MANAGEMENT

Based on the direction from EM Headquarters, MCP developed the near-term baseline for each of its projects. These project baselines have undergone an independent review to verify the reasonableness of the scope, cost, and schedule for each project. An approved near-term baseline reflects the identified scope that can reasonably be accomplished for the identified cost in the identified time period if near-term baselines are funded as profiled and contingency funds are provided as required during project execution. It also establishes the baseline as an acceptable point from which to track and control future change. The review and approval process accommodates the likely changes in the EM complex, site priorities and funding plans. These changes could affect both near-term (within the next five years) and life-cycle cost, schedule and scope. Such future changes may be required to comply with applicable environmental legal obligations while maintaining essential functions necessary to protect human health, the environment and national security; reflect funding different from the baseline assumptions; incorporate

technological advances; realize specific programmatic risks; or implement programmatic business cases

LIST OF PROJECTS

Work Breakdown Structure

The OU-1 Work Breakdown Structure (WBS) is a hierarchically tiered framework that organizes and depicts elements representing manageable units of work to be performed in a logical sequence that slows for a means to allocate resources, schedule, and control at the product level.

The WBS structure provides for the tracking of the following work activities:

OH-MB-0031 (<u>OU-1 Landfill</u>): This element includes removal of known areas of waste within and under the existing OU-1 landfill built in 1977. Since neither the DOE nor the Miamisburg Mound Community Improvement Corporation were confident that the funds provided by Congress would be sufficient to completely remediate the OU-1 site, areas of waste were prioritized to assure that the community's highest areas of concern were remediated before funds were possibly exhausted.

OH-MB-0031 (Potential Release Site (PRS) 441, rail load-out area): The remediation of this area was scheduled for completion in 2006 as part of the Miamisburg Closure Contract, but was delayed to allow for support of rail shipment of material exhumed from the OU-1 Landfill.

OH-MB-0030 (<u>PRS 7</u>): This element consists of the removal of an off-site sanitary waste line and two abandoned manholes. This is a part of the resolution of a Federal Facility Agreement dispute with the State of Ohio. Although no contamination is currently expected to be found after removal of the off-site line, verification sampling will be performed

Contract Negotiated	Value
(Millions)	
OU-1	\$31.1
PRS 441	\$3.0
PRS 7	\$1.3

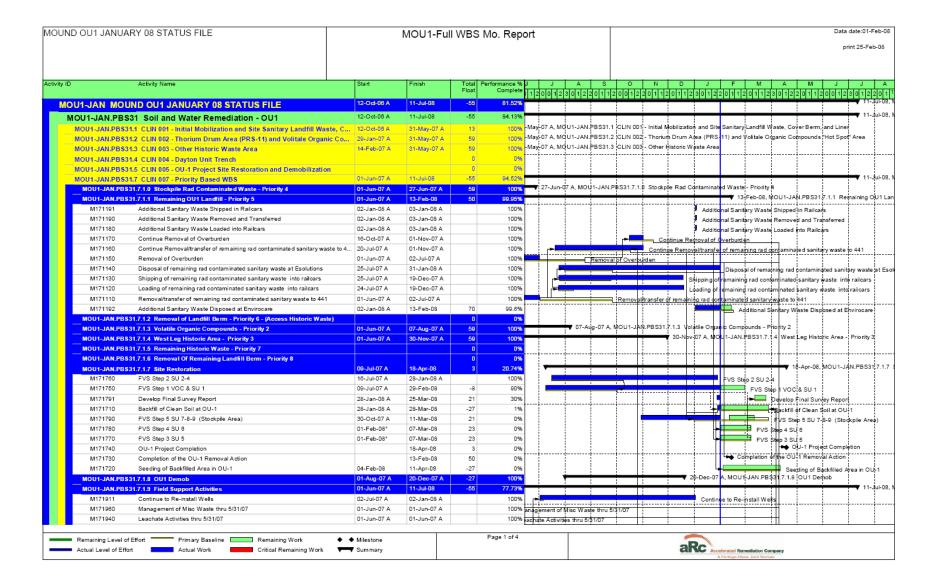
Cost Estimate by PBSThree Mound PBSs remain active at this time:

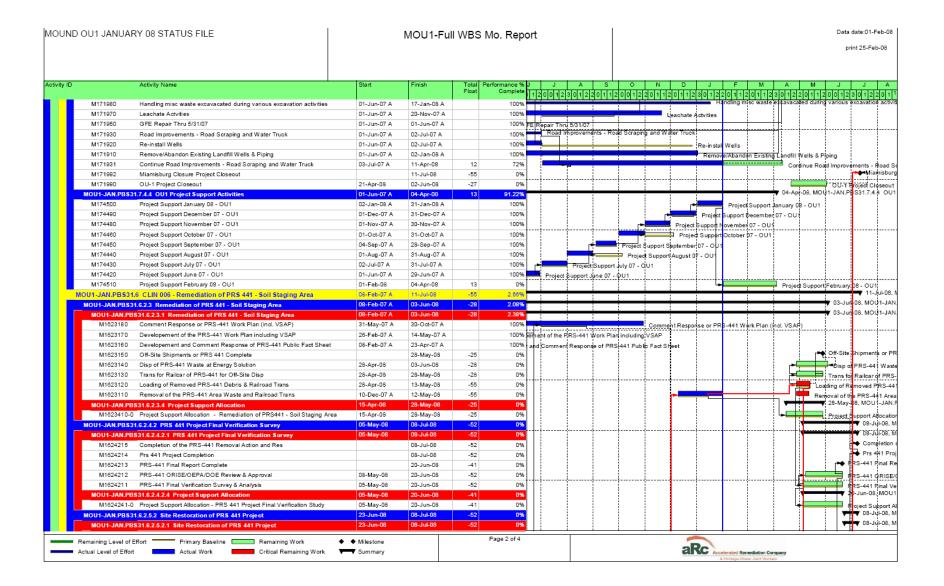
(dollars in thousands)

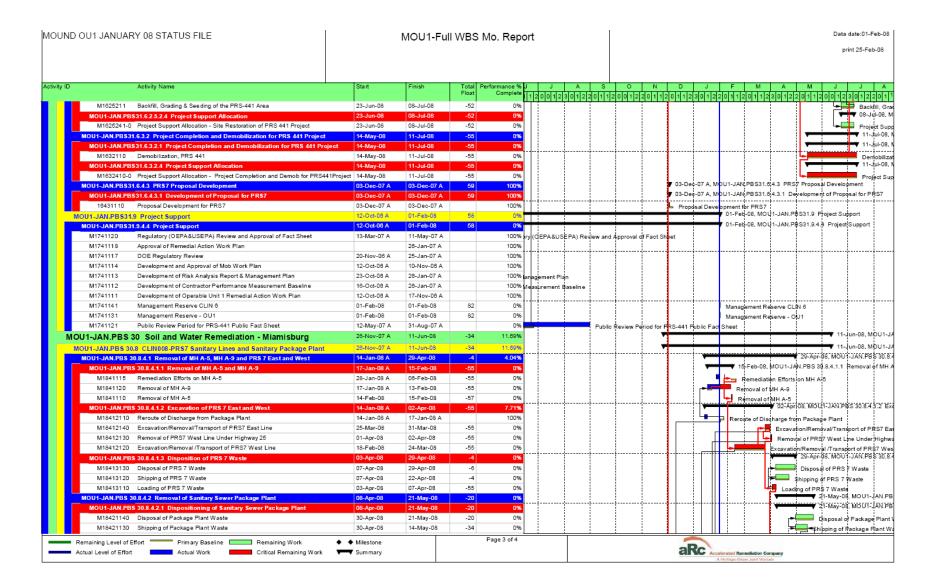
	,		,			
		FY08	FY09	FY10	FY11	FY12
OH-MB-0030	Soil and Water Remediation-Miamisburg	\$5,061	\$26,350	\$3,270	\$2,347	\$2,328
OH-MB-0031	Soil and Water Remediation-OU-1	\$2,218	0	0	0	0
OH-MB-0100	Miamisburg Post-Closure Administration	\$24,971	\$26,350	\$20,963	\$21,651	\$22,702

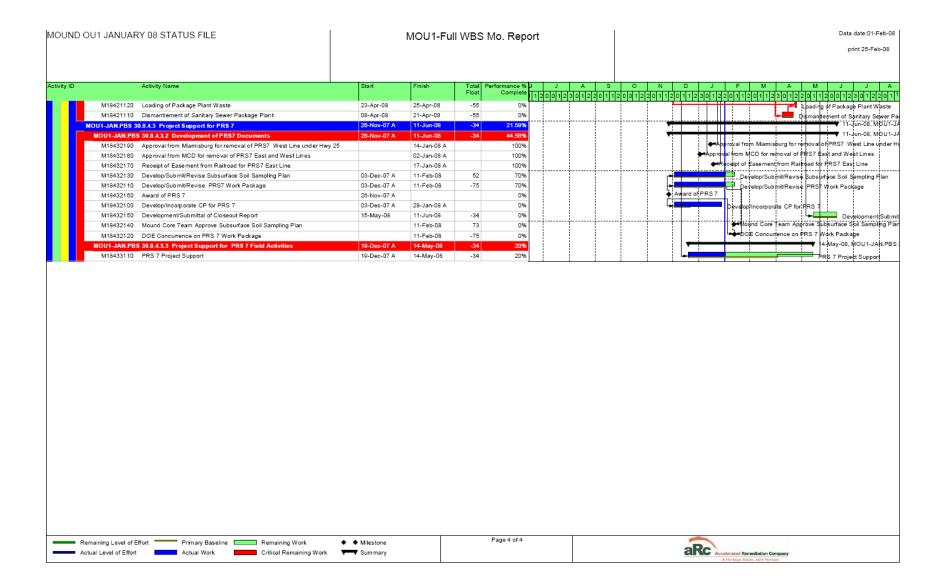
SUMMAYR LIFECYCLE BASELINE SCHEDULE

MOUND (OUND OU1 JANUARY 08 STATUS FILE					MOU1-Critical Path									Data Date 01-Fel				
																25-Feb-08			
vity ID	Activity Name	Original F	Remaining Duration	Start	Finish		August 2007		0	N	D	J	F	March 2008					July 2008 J
11623110	Removal of the PRS-441 Area Waste and Railroad Trans	Duration 24		10-Dec	12-May-08	-55	3 0 1 2 .	2 0 1 1 1 2	0 0 1 2	2 0 1 1 1 2	2 0 1 1 2	3 0 1 2	2 0 1 1 1	2 0 1 1 1 2	2 3 0 1	2 2 0			441 Area Was
1623120	Loading of Removed PRS-441 Debris & Railroad Trans	12			13-May-08	-55							1	1			i	1	PRS-441 Del
1632410-0707	Project Support Allocation - Project Completion and Demob f	41			11-Jul-08	-55				1						F			Project S
11632110	Demobilization, PRS 441	41			11-Jul-08	-55			1							 		_	Demobili
1171992	Miamisburg Closure Project Closeout	0	0		11-Jul-08	-55													Miamisb
	ng Level of Effort. ▼ ■▼ Summary						MOUN	D OU1	PROJE	СТ									
Actual Le	evel of Effort						MOUN	D OU1	PROJE	CT									
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Appendix A:

Milestones:

Milestone/Activity	Original Date	Forecast Status	<u>Source</u>
Complete OU-1 Backfill and Seeding	2/7/2008	6/6/2008	contractor's schedule
Complete PRS 441 Removal Action	12/7/2007	9/5/2008	contractor's proposal
Complete OU-1 Task Order	12/31/07	09/03/08	contractor's proposal
Complete Remedy for Operable Unit 1.	2/8/2008	10/15/2008	contractor's schedule

Appendix B:

Key Project Risks:

Risk:

May experience quantity overruns in remediation of PRS 441 rail yard and PRS 7.

Planned Action:

\$2 has been reserved for this possibility