



# Site Management Plan Overview Briefing

PGDP Citizens Advisory Board  
December 9, 2008







- **Series of cooperative working sessions held between EPA, Kentucky, and DOE between December 2007 – November 2008:**
  - Reached agreement on finalization of FY2008 SMP – approved by EPA (7/30) and KY (7/29)
  - Initiated early scoping for development of FY2009 SMP
- **Scoping of FY2009 SMP focused on reaching consensus on the Operable Unit scope and DOE’s planning assumptions in the baseline**
  - Serve as the basis for establishing schedules/milestones under the FFA

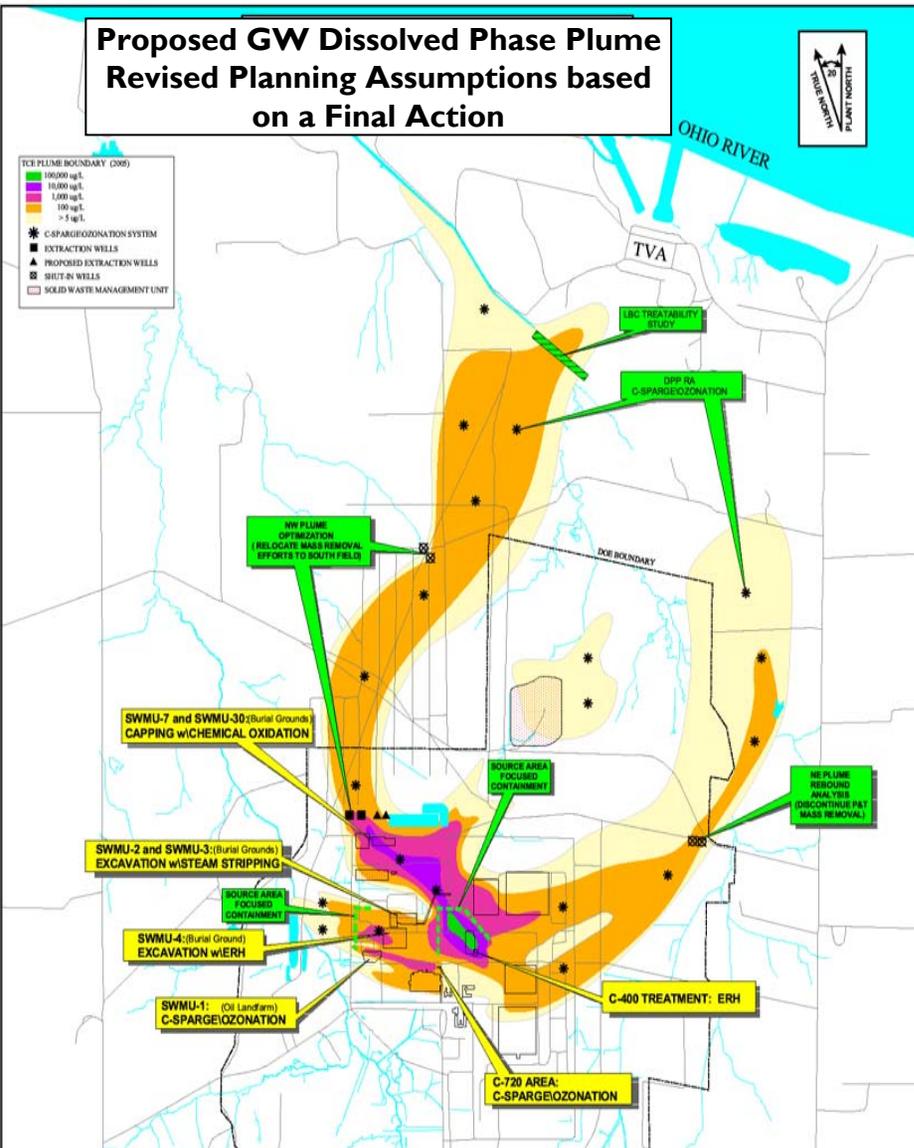
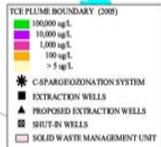




- **FY2009 Scoping process required expanded discussions on regulator expectations for the groundwater strategy**
  - Implementing a final action for the groundwater dissolved phase plume prior to plant-shut down and D&D of the GDP
  - Achieving MCLs throughout the plume rather than at the DOE property boundary
- **Regulator expectations for the groundwater dissolved phase plume requires revision to DOE baseline**



## Proposed GW Dissolved Phase Plume Revised Planning Assumptions based on a Final Action



- **Proposed Baseline Changes**
  - Optimize/focus existing NW Plume Pump-and-Treat system
  - Conduct Treatability Study for surface water seeps
  - Supplement source treatment with containment technologies
  - Expand treatment of Dissolved Phase Plume
- **Projected Baseline Impacts**





# Changes to SMP from '08 to '09

- **Project scoping assumptions in Appendix 3 revised based on discussion between DOE, EPA, and KY at previous Senior Managers Meetings**
- **3 milestones changed to TBD because of budget direction from DOE HQ**
  - Burial Grounds Remedial Action Completion Report
  - Dissolved Phase Plume Remedial Investigation/Feasibility Study Work Plan
  - Dissolved Phase Plume Record of Decision
- **New milestones added to FY11**
  - SW Plume Remedial Design Work Plan
  - Disposition of Inactive Facilities Removal Notification
  - Disposition of Inactive Facilities Removal Action Work Plan
  - Soils Remedial Action Feasibility Study
  - Soil and Rubble Areas Addendum 2 Site Evaluation Report
  - Soil and Rubble Areas Addendum 1B Site Evaluation Report



Life Cycle Baseline Remediation Projects  
assumes Planned Funding

Activity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
On-Site CERCLA Cell (Potential)			▲ ROD								
C-400 Groundwater ERH Action		Begin Operations of ERH System		RACR							
Southwest Plume Sources		ROD				RACR *					
Soils OU Inactive Facilities (3)		RmACR									
Soils OU Remedial Action (79 SWMUs)				ROD			RACR *				
Soils OU Hot Spot Removal (If needed)		AM			RmACR						
Soils Piles Removal (If needed)		AM		RmACR							
Surface Water Removal Action		RmACR									
Surface Water Remedial Action						ROD			RACR *		
Pump and Treat Operations (Ongoing)											
D&D of C-410		AM		RmACR *							
D&D of C-340		AM							RmACR *		
Burial Grounds OU		ROD									RACR *
Dissolved Phase Plumes (NW,NE,SW)											Construction Complete

Total Life Cycle Baseline  
\$1,762M  
LCB 2009 – 2019  
\$1,515M



\* Outyear Enforceable Milestone  
Lifecycle Baseline



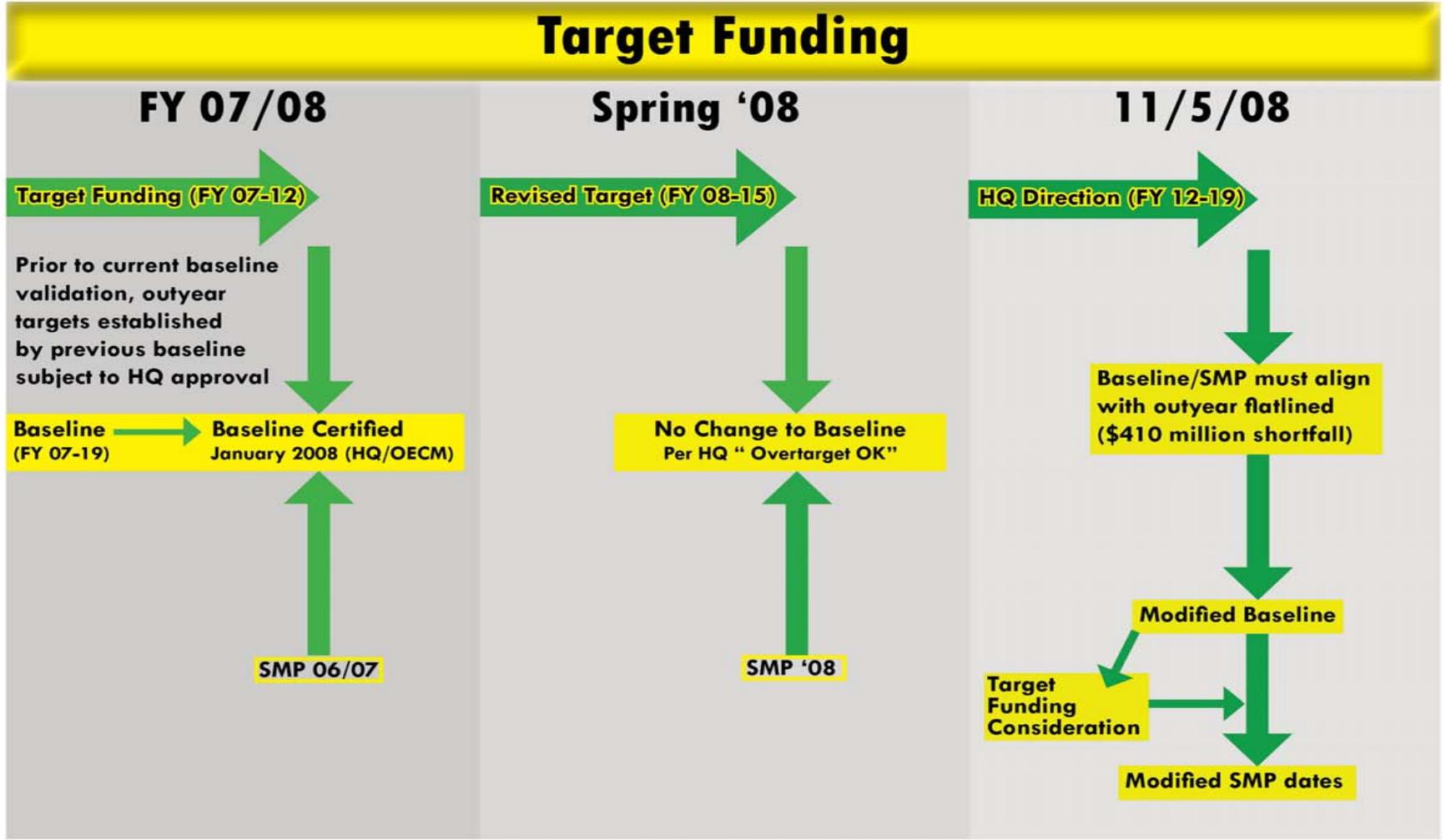
Activity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
On-Site CERCLA Cell (Potential)			ROD			Start of Construction									
Begin Operations of ERH System				RACR *											
C-400 Groundwater ERH Action															
Southwest Plume Sources			ROD			RACR *									
Soils OU Inactive Facilities (3)															
Soils OU Remedial Action (79 SWMUs)				ROD			RACR *								
Soils OU Hot Spot Removal (If needed)			AM		RmACR										
Soils Piles Removal (If needed)			AM		RmACR										
Surface Water Removal Action			RmACR												
Surface Water Remedial Action						ROD			RACR *						
Pump and Treat Operations (Ongoing)															
D&D of C-410			AM		RmACR *										
D&D of C-340			AM						RmACR *						
Burial Grounds OU			ROD								RACR *				
Dissolved Phase Plumes (NW,NE,SW)								ROD (Interim Action)			Constr. Complete				Constr. Complete

\* Outyear Enforceable Milestone  
 Lifecycle Baseline  
 Lifecycle Baseline Modified with CERCLA Cell & GW Final Action





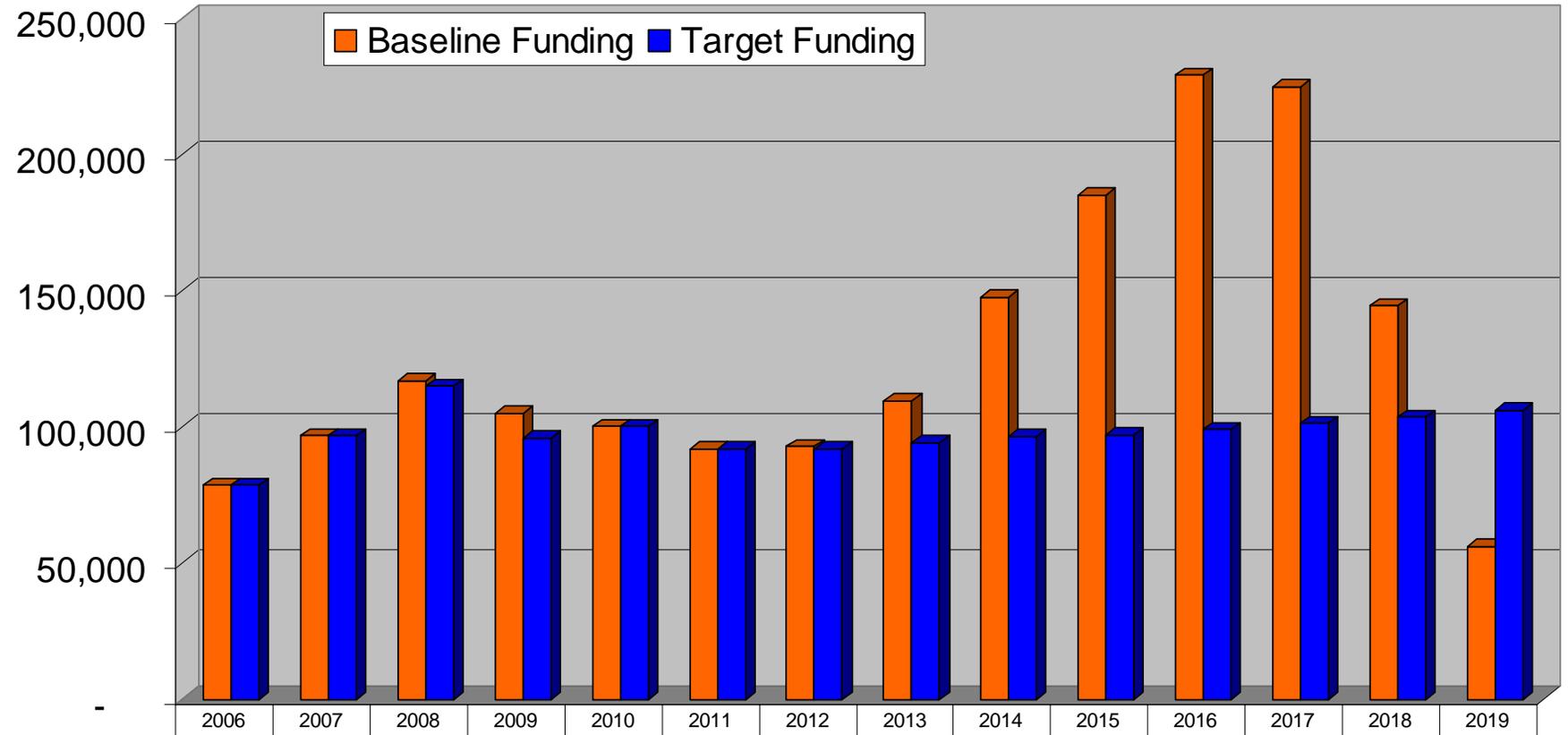
# Budget Information





# Budget Information

## Paducah Funding Comparison D&D Fund Projects only



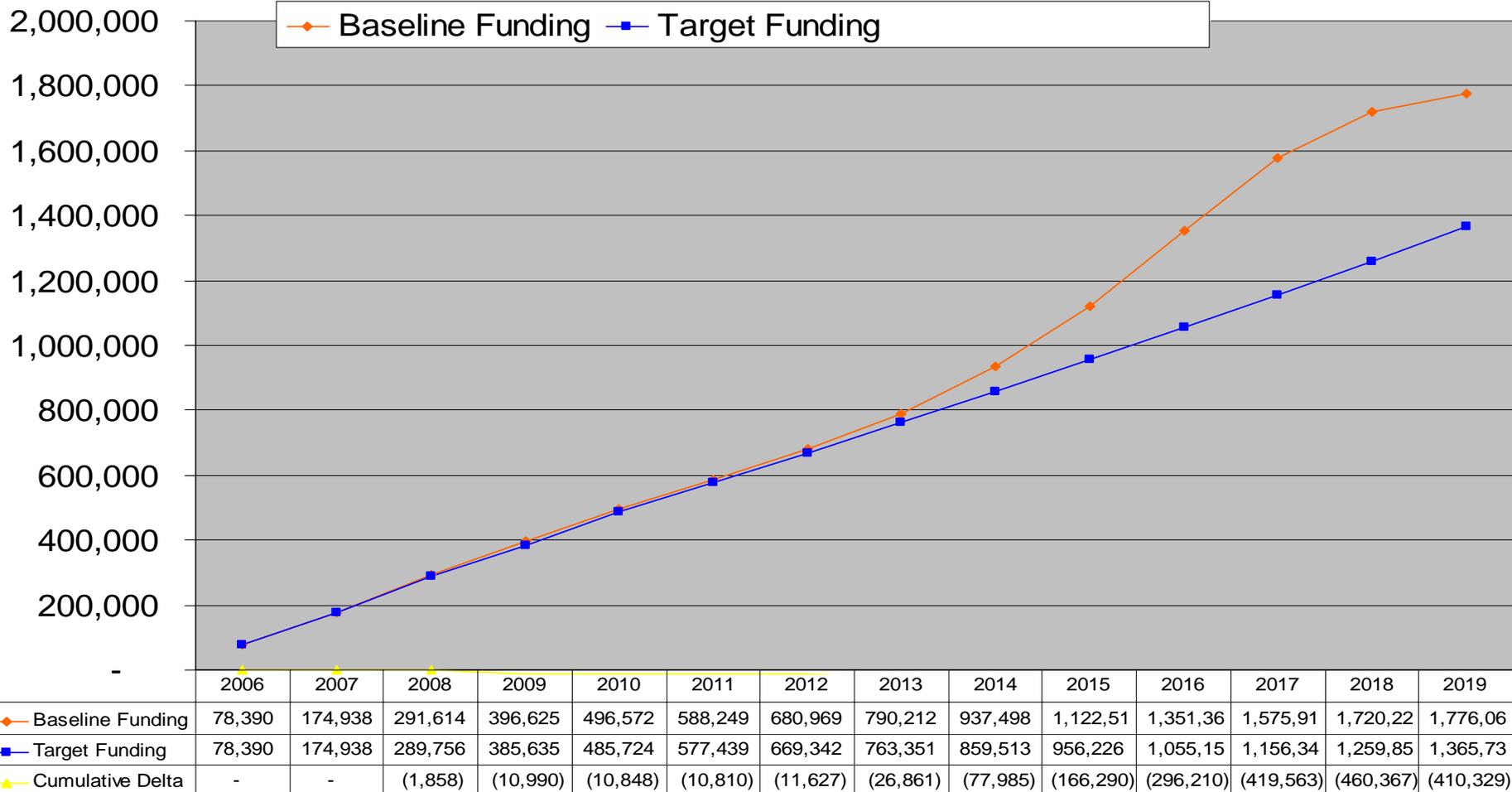
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
■ Baseline Funding	78,390	96,548	116,676	105,011	99,947	91,677	92,720	109,243	147,286	185,018	228,848	224,546	144,314	55,843
■ Target Funding	78,390	96,548	114,818	95,879	100,089	91,715	91,903	94,009	96,162	96,713	98,928	101,193	103,510	105,881





# Budget Information

## Paducah Cumulative Funding

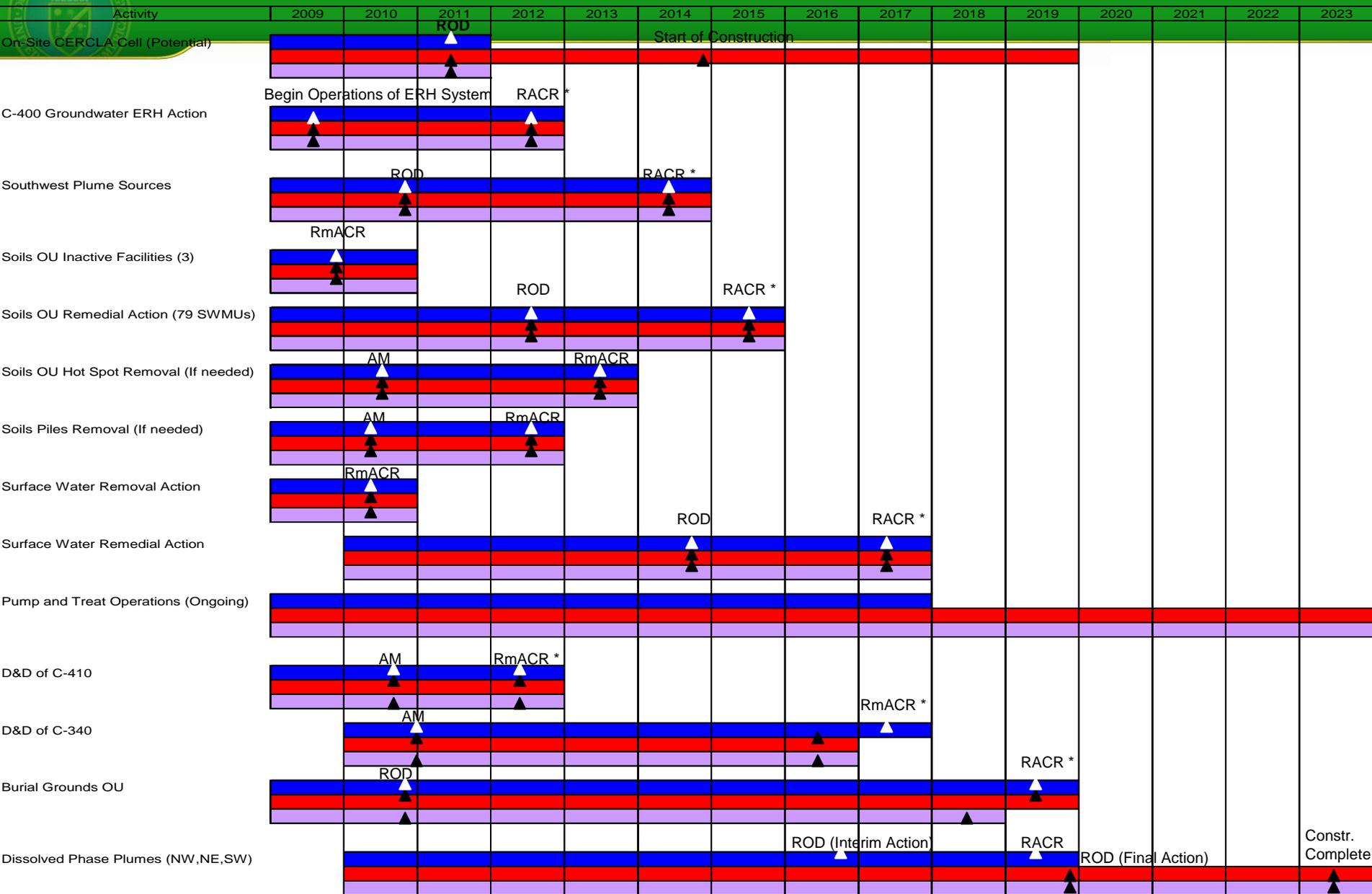




## Target Funding Scenario Assumptions

- Several scenarios were developed based on the flat lined funding targets.
  1. Capping of Burial Grounds to achieve same end date
  2. Revised baseline without the construction of the CERCLA Cell
  3. Revised baseline with the construction of CERCLA cell

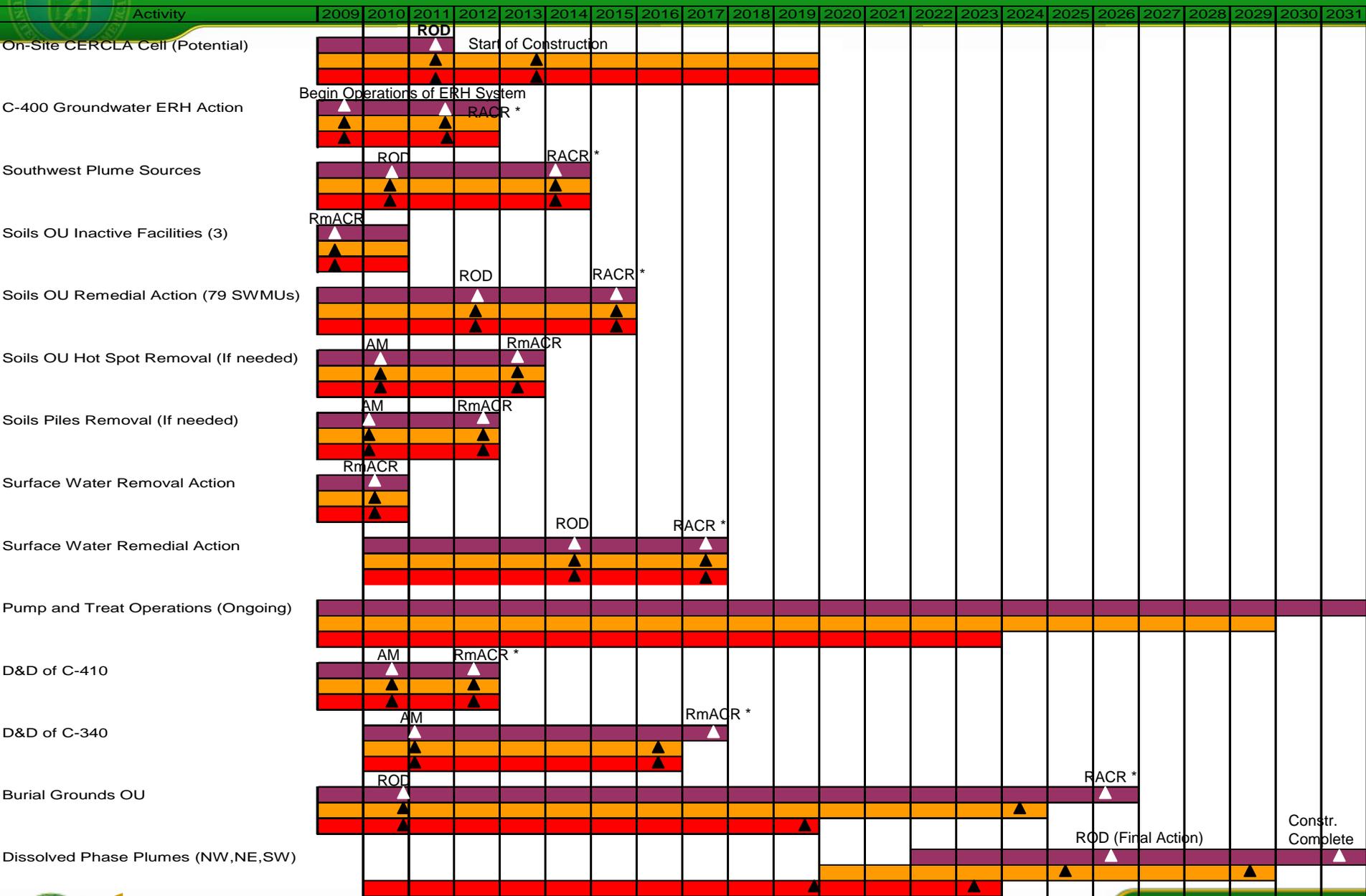




\* Outyear Enforceable Milestone

█ Lifecycle Baseline (assumed Planned Funding)  
█ Lifecycle Baseline Modified with CERCLA Cell (assumed Planned Funding)  
█ Target Funding with Capping of Burial Grounds





\* Outyear Enforceable Milestone

- Target Funding without CERCLA Cell and with GW Final Action
- Target Funding with CERCLA Cell and GW Final Action
- Life Cycle Baseline Modified with CERCLA Cell and GW Final Action (assumes Planned Funding)





# Path Forward

## Conclusion

- Burial Grounds OU is the only enforceable milestone impacted by the different funding scenarios

## Proposed Actions

- FFA Parties work together to reach consensus on priorities
- Sequence prioritized projects considering funding targets
- Revise SMP/Baseline

## DOE recommendation

- DOE recommends approval of the 2009 SMP while working together to definitize the 2010 SMP/Baseline



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We recently held the first of several public meetings in Paducah regarding the plans, strategies, and goals for the cleanup process. **To learn about the event held November 18, and 20, 2008, click here.**

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