

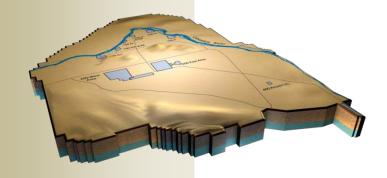
# **Appendix A-1**

# Contract Performance Reports ARRA

Format 1 - Work Breakdown Structure

Format 3 - Baseline

Format 5 - Explanation and Problem Analysis



September 2011 CHPRC-2011-09, Rev. 0 Contract DE-AC06-08RL14788 Deliverable C.3.1.3.1 - 1

# FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

							CLASSII	FICATION (When	Filled in)							
			ACT PERFORMANCE WORK BREAKDOWN				OL-ROOM	TOATION (WHISH	T mod my		DOLLARS IN	Thousands of \$		FORM APPROVE OMB No. 0704-01		
1. CONTRACTOR			2. CONTRACT					3. PROGRAM						4. REPORT PERI	OD	
a. NAME								a. NAME						a. FROM (YYYYI	MMDD)	
CH2M HILL Plateau Remediation Company			Plateau Remediation C	ontract				Plateau Remedia	tion Contract							
b. LOCATION (Address and ZIP Code)			b. NUMBER					b. PHASE						2011 / 08 / 22		
Richland, WA			RL14788									b. TO (YYYYMMDD)				
			c. TYPE	d. SHARE RATIO			O c. EVMS ACCEPTANCE						1			
			CPAF					NO	YES X	9/18/2009	)				2011 / 09 / 30	
5. CONTRACT DATA																
a. QUANTITY	b. NEGOTIATED		ED COST OF		ET PROFIT/	e. TARGET		MATED	g. CON		h. E	ESTIMATED CONT	TRACT		I. DATE OF OTB/OT	rs
	COST	AUTHORIZED U	INPRICED WORK		FEE	PRICE		RICE		EILING		CEILING			(YYYYMMDD)	
	1,305,191		-19,841	70,807		1,375,998		6,157	1,375			1,356,157				
6. ESTIMATED COST AT COMPLETION							7. AUTHORIZE	D CONTRACTOR	R REPRESENTAT	IVE						
	AT COM	NT ESTIMATE PLETION 1)	BAS	CONTRACT BUDGET VARIAN BASE (2) (3)			a. NAME (Last, First, Middle Initial) Bang, M.V.			b. TITLE Prime Contract Manager						
a. BEST CASE	1,270	0,132					c. SIGNATURE							d. DATE SIGNED		
b. WORST CASE	1,342	2,821									(YYYYMMDD)					
c. MOST LIKELY	1,285	5,350	1,342,8	321	57	,472	1								2011/9/24	
8. PERFORMANCE DATA																
WBS[1] CL			RRENT PERIOD CUMULATI					MULATIVE TO D	JLATIVE TO DATE REPROGRAMMING					AT COMPLETION		
BUDGETED COST		ACTUAL COST VARIA		RIANCE BUDGETED C		ED COST	ACTUAL COST COST				ADJUSTMENTS					
	WORK	WORK	WORK	****	I	WORK	WORK	WORK	774.0	1102	COST	SCHEDULE		BUDGETED	ESTIMATED	VARIANCE
ITEM	SCHEDULED	PERFORMED	PERFORMED	SCHEDULE	COST	SCHEDULED	PERFORMED	PERFORMED	SCHEDULE	COST	VARIANCE	VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
				(0.400)												
RL-0011.R1 PFP D&D	24,571	16,076	14,803	(8,496)	1,273	282,819	261,440	265,477	(21,380)	(4,038)	0	0	0	287,754	271,046	16,708
RL-0013C.R1.1 MLLW Treatment RL-0013C.R1.2 TRU Waste	2,019 21.708	2,725 18.871	2,558 25,238	706 (2,837)	167 (6,367)	47,657 254,759	46,307 254.353	41,365 251.807	(1,350) (406)	4,942 2,546	0	0	0	50,100 256,746	42,973 253,746	7,127 3.000
RL-0030.R1.1 GW Capital Asset	9.110	7,950	5,335	(2,837)	2,615	175,008	175,008	174,406	(406)	602	0	0	0	175,008	174,955	3,000 54
RL-0030.R1.2 GW Capital Asset	5,534	3,411	3,677	(2,122)	(265)	92,146	92,146	89,387	(O)	2,758	0	0	0	92,146	89,387	2,758
RL-0040.R1.1 U Plant/Other D&D	9.077	11.474	8.970	2,397	2,504	197,864	195,496	186,372	(2,368)	9,124	0	0	0	200,416	188,924	11.493
RL-0040.R1.2 Outer Zone D&D	2.428	1.606	2.066	(822)	(459)	89.086	84.673	71.546	(4.413)	13.127	0	0	0	89,086	71.546	17,540
RL-0041.R1.1 100 K Area Remediation	4.142	4.661	7.752	519	(3,091)	173,677	173,554	174.886	(123)	(1,331)	ň	0	ñ	176.347	177.555	(1,208)
b. Cost of Money	0	0	0	0	(0,051)	0	0	0	0	0	ő	0	0	0	0	(1,200)
c. Gen. and Admin.	Ö	Ö	ő	Ö	Ö	ő	Ö	ő	Ö	Ö	ő	Ö	Ö	ő	0	Ö
d. Undist. Budget	komerîmena				100 - İOHANI									Ö	Ō	Ō
e. Sub Total	78,589	66,774	70,398	(11,815)	(3,624)	1,313,016	1,282,977	1,255,245	(30,039)	27,732	0	0	0	1,327,604	1,270,132	57,472
f. Management Resrv.														15,218		
g. Total	78,589	66,774	70,398	(11,815)	(3,624)	1,313,016	1,282,977	1,255,245	(30,039)	27,732	0	0	0	1,342,821		
9. Reconciliation to CBB	l					1					L			L		
a. Variance Adjustment									0	0						
b. Total Contract Variance									(30,039)	27,732				1,342,821	1,270,132	72,689

#### FORMAT 3, DD FORM 2734/3, BASELINE

		CON	TRACT PERFO	RMANCE REP	ORT					·		·		Form Approv	red	
FORMAT 3 - BASELINE DOLLARS IN THOUSANDS												OMB No. 0704-0188				
1. CONTRACTOR	2. CONTRACT	ī				3. PROGRAM					4. REPORT PERIOD					
CH2M HILL Plateau Remediation Company			a. NAME:	Plateau Reme	diation Contract	t		a. NAME:	Plateau Rem	ediation Contr	act		a. FROM:	2011/8/22		
b. LOCATION:			b. NUMBER:	RL14788				b. PHASE					b. TO:	2011/9/30		
Richland, WA			c. TYPE:	CPAF				c. EVMS ACC	EPTANCE							
			d. SHARE RA	d. SHARE RATIO: NO YES X 9/18/2009												
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST		b. NEGOTIATE	ED CONTRACT	c. CURRENT	NEGOTIATED	d. ESTIMA	TED COST	e. CONTRAC	CT BUDGET	f. To	OTAL ALLOCA	ATED		g. DIFFEREN	CE	
			CHANGE COST (A +			AUTH UNPRICED WORK		BASE (C + D)			BUDGET		(E - F)			
0		\$1,30	5,191	\$1,30	05,191	(\$19	,841)	\$1,285,350 \$1,341,135					(\$55,785)			
h. CONTRACT START DATE i.			i. DEFINITIZATION DATE j. PLANNED COMPL DATE					k. CONT COMPLETION DATE				I. EST COMPLETION DATE				
4/9/2009				9/30/2011										9/30/2011		
6. PERFORMANCE DATA			BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)													
	BCWS	BCWS	SIX MONTH FORECAST													
ITEM	CUM	FOR														
	то	REPORT	+1	+2	+3	+4	+5	6+	FY09	FY10	FY11	FY12	OUT	UNDISTRIB	TOTAL	
	DATE	PERIOD	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12					YEARS	BUDGET	BUDGET	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
a. PM BASELINE																
(BEGIN OF PERIOD) 1,312		78,301	4,061	4,719	5,292	515	0	0	161,538	565,906	585,285	14,588	0	0	1,327,316	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
												_				
BCR-000-11-003R0 Definitize Change Order #83, Contract Modification 152, Beryllium BCR-030-11-017R0 Bioassay Activities per Change Order 135, Mod 177											0	0	0		0	
BCR-R40-11-004R0 U-Plant Canyon Disposition											258	0	0		258	
BCR-R41-11-005R0 100K CENRTC Scope Adjustment											(958)	0	0		(958)	
c. PM BASELINE (END OF PERIOD)	1,312,029.3		4,061.1	4,718.8	5,292.3	515.4	0.0	0.0	161,538.0	565,906	584,585	14,588	0	0	1,326,617	
7. MANAGEMENT RESERVE															14,518	
8. TOTAL															1,341,135	

1,234,427

78,301 4,061 4,719 5,292 515 0 161,538 565,906 585,285 14,588 0 0 1,327,316

			CLASSIFICA	TION (Whe	en Filled In)						
	FORM APPROVED OMB No. 0704-0188										
1. CONTRACTOR 2. CONTRACT 3. PROGRAM									4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation	on Company	a. NAME Plateau Reme	diation Contract		a. NAME Plateau Remed	liation Contract	a. FROM (YYYY/MM/DD) 2011/8/22				
b. LOCATION (Ad Code)	Idress and ZIP	b. NUMBER RL			b. PHASE ARRA		b. TO (YYYY/MM/DD)				
Richland, WA 99354		c. TYPE CPAF	d. SHARE RAT	10	c. EVMS ACC NO	EPTANCE 200 YES X	2011/9/30				
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	СРІ		
Current:	78,589	66,774	70,398	(11,815)	-15.0%	(3,624)	-5.4%	0.85	0.95		
Cumulative:	1,313,016	1,282,977	1,255,245	(30,039)	-2.3%	27,732	2.2%	0.98	1.02		
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC					
At Complete:	1,327,604	1,270,132	57,472	4.3%	0.6	3.0					

#### **Explanation of Variance/Description of Problem:**

Current Period Schedule Variance: The Current Month unfavorable Schedule Variance (-\$11.8M/-15.0%) reflects the following:

The RL-0011 negative variance (-\$8.5M) is due primarily to a result of a three-week work restriction of D&D activities, due to loss of normal ventilation, workforce restructuring, and deferred D&D work resulting from resources reassigned to focus on higher priority KPP glovebox removal work scope.

The RL-0013 positive variance (-\$2.1M) reflects the following: RL-0013 MLLW Treatment (+\$0.7M) the positive variance is due to schedule recovery for M-91-43 and M-91-42 MLLW waste treatment. RL-0013 TRU Waste (-\$2.8M) the negative variance is due to TRU Retrieval Point of Generation shipments scheduled to and from Perma-Fix Northwest for this month that were completed in a prior period, TRU Retrieval planned layup activities behind schedule, and T Plant layup schedule delay associated with drum compactor activities.

The RL-0030 negative variance (-\$3.3M) is due to the following: ARRA RL-0030.R1.1 Cleanup Operations (-\$1.2M) 200-ZP-1 OU - 200W P&T construction is performing ahead of the baseline schedule. The negative variance in the current month is the result of previously completed work. ARRA RL-0030.R1.2 Well Drilling Operations (-\$2.1M) 200-ZP-1 OU - 200W P&T construction was performed ahead of the baseline schedule. The negative variance in the current month is the result of previously completed work. ARRA RL-0030.R1.3 Support Operations (\$+0.0M) positive variance is within threshold.

The RL-0040 positive variance (+\$1.6M) is within reporting thresholds and reflects, ARRA RL-0040.R1.1 U Plant/Other D&D (+\$2.4M) the positive variance is within reporting thresholds. ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.8M) the negative variance is within reporting thresholds.

The RL-0041 positive variance (+\$0.5M) is within reporting thresholds.

Current Period Cost Variance: The Current Month unfavorable Cost Variance (-\$3.6M/-5.4%) reflects the following:

The RL-0011 positive variance (+\$1.3M) is primarily due to a result of year-end liquidation of overhead and G&A pools.

The RL-0013 negative variance (-\$6.2M) is due to the following: RL-0013 MLLW Treatment (+\$0.2M) the positive variance is due to lower labor support and contract costs than planned. RL-0013 TRU Waste (-\$6.4M) the negative variance is due to delayed cost transfer of Central Waste Complex (CWC) Base and Min-Safe Operations from Base to ARRA (BCR was implemented in August and corresponding cost transfers processed in September) and allocation of Work Force Restructuring costs.

The RL-0030 positive variance (+\$2.3M) that exceed the reporting thresholds reflects the following, ARRA RL-0030.R1.1 Cleanup Operations (+\$2.6M) 200-ZP-1 OU - 200W P&T final contract accruals for the period were made based on the fully negotiated change orders to contracts and the amount of remaining funds available. ARRA RL-0030-R.1.2 GW Operations (+\$0.1M) The positive variance is within reporting thresholds. ARRA RL-0030.R1.3 Support Operations (-\$0.4M) the negative variance is within reporting thresholds.

The RL-0040 positive variance (+\$2.0M) that reflects the following subproject performance, ARRA RL-0040.R1.1 U Plant/Other D&D (+\$2.5M) the positive variance is due to sub-contracts costs for 200W Project and U Canyon were lower than anticipated this period. ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.5M) the negative variance is within reporting thresholds.

The RL-0041 negative variance (-\$3.1M) is due to Waste Sites (+\$0.5M) the positive variance is within reporting thresholds. 100K Area Project Facilities and Others (-\$3.6M) the negative cost variance is due to high costs for KW Basin Debris removal, and cost transfers from Base processed during the month for 1706K, 1706KER and 181KW Pump House that moved costs from prior months to September.

Cumulative Schedule Variance: An unfavorable cumulative schedule variance (-\$30.0M/-2.3%) is due to the following:

The RL-0011 negative variance (-\$21.4M) is due to delays in completing D&D of 234-5Z and deferred D&D work resulting from resources reassigned to focus on higher priority KPP glovebox removal work scope. The 234-5Z process and lab area D&D delays are a result of contamination events, more stringent radiological controls, ventilation event, workforce restructuring, and complexity of work.

The RL-0013 negative variance (-\$1.7M) is due to RL-0013 MLLW Treatment (-\$1.3M) the negative variance is due to delay in receipt of M-91-42 feed from TRU Retrieval (shift to Retrieval trench with higher percentage of TRU waste). BCR will move M-91-42 TRU Retrieval MLLW dropouts to occur in conjunction with the resumption of TRU Retrieval. RL-0013 TRU Waste (-\$0.4M) the negative variance is the result of the delay of TRU Retrieval layup activities due to focus on ARRA KPP goals.

The RL-0030 positive variance (+\$0.0M) is within threshold.

The RL-0040 negative variance (-\$6.8M) primary contributors that exceed the reporting thresholds are: RL-0040.R1.1 U Plant/Other D&D (-\$2.4M) the negative variance is due to delays with the 209-E Project. RL-0040.R1.2 Outer Zone D&D (-\$4.4M) the negative variance is primarily due to the waste sites in ARRA that need to be moved to base to support the priority of footprint reduction.

The RL-0041 negative variance (-\$0.1M) is within reporting thresholds and is due to Waste Sites (+\$0.0M) – the positive variance is within reporting thresholds. 100K Area Project (-\$0.1M) – the negative variance is within reporting thresholds.

**Cumulative Cost Variance:** The CTD favorable cost variance (+\$27.7M/+2.2%) is within reporting thresholds and reflects the following: RL-0011 negative variance (-\$4.0M) is within reporting thresholds.

The RL-0013 positive variance (+\$7.4M) reflects: RL-0013 MLLW Treatment (+\$4.9M) the positive variance is due to Mixed Low Level Waste costs below plan due to efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PermaFix Northwest (PFNW) due to a waiver received from the Department of Energy (DOE), ERDF negotiated rate reduction with vendor for waste containers, decreased operations costs at Low Level Burial Grounds (LLBG), efficiencies in Large Type A waste container shipments to PFNW and in Mixed Waste Disposal Trenches (MWDT) upgrades, partially offset by higher costs for ETF Containment Berm repairs. RL-0013 TRU Waste (+\$2.5M) the positive cost variance due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T-Plant and WRAP, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCS), coupled with increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures.

The RL-0030 positive variance (+\$3.4M) reflects, RL-0030.R1.1 Cleanup Operations (+\$0.6M) negative variance can be attributed to 100-HR-3 Operable Unit (-\$0.8M) 100DX is the result of increased installation costs on the pH adjustment system, the impacts of weather on completing construction punch-list items, and the Acceptance Test Plan for the facility/process. 200-ZP-1 Operable Unit (+\$1.9M) Final contract accruals were made based on the fully negotiated change orders to contracts and the amount of remaining funds available, resulting in a positive variance. RL-0030.R1.2 Well Drilling Operations (+\$2.4M) The positive variance is due to efficiencies and savings obtained in drilling for 100-NR-2 and 200-BP-5 wells. Cost efficiencies have been obtained through an aggressive drilling schedule with savings in support personnel and faster drilling methods. Well decommissionings have also been completed for less than planned. ARRA RL-0030.R1.3 Support Operations (+\$0.3M) the positive variance is due to Regulatory Decision and Closure Integration (+\$1.7M) completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging), and borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support). Ramp-up and Transition (-\$1.9M) negative variance was driven by increased Project Services Distribution to RL-0030.

The RL-0040 positive variance (+\$22.2M) reflects the following: ARRA RL-0040.R1.1 U Plant/Other D&D (+\$9.1M) The positive variance is largely due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$4.2M), overhead allocations (+\$11.5 M), less for Program Management than planned (+\$2.4M), less resources than planned for C-3 Sampling (+\$0.7M), lower than planned costs for capital equipment (D4) (+\$3.0M), less asbestos abatement required for 200W buildings (+\$3.5M), offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$8.1M), coupled with increased insulator staff and overtime to recover schedule, 200E Administration (-\$1.7M) and 209E Project delays (-\$4.7M), additional resources being applied at U Canyon (D4) to regain schedule (+\$0.7M), Usage Based Services (-\$3.1M), and minor accounts not within threshold (+\$0.7M). ARRA RL-0040.R1.2 Outer Zone D&D (+\$13.1M) the positive variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D (+\$7.0M), and Outer Area waste sites (+\$7.2M). The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated.

The RL-0041 negative variance (-\$1.3M) is due to: 100K Area Project (-\$9.7M) – The negative variance is due to numerous design changes and additional punch list items in the Utilities Reroute project; the project has been utilizing more vehicles and equipment than was planned and Project Management continues to reflect increased charges for labor and materials, and Waste Sites (+\$8.4M) – The positive variance is due to Confirmatory Sampling No Action (CSNA) sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost.

#### Impact:

Current Period Schedule: For RL-40.R1.1, RL-40.R1.2, and RL-41.R1.1 the current period schedule impacts are the same as the CTD schedule impacts (see below). For RL-11R.1 the primary impact is in D&D of process and lab areas and getting Z/ZB Complex ready for demolition. For RL-13C.R1.2 the primary impact is the TRU Retrieval Point of Generation shipments scheduled to and from Perma-Fix Northwest for this month were completed in a prior period, TRU Retrieval planned layup activities behind schedule, and T Plant layup schedule delay associated with drum compactor activities, partially offset by RL-13CR1.1 schedule recovery for M-91-43 and M-91-42 MLLW waste treatment.. For RL-30.R1.1 - there are no impacts as the variance is minimal.

**Current Period Cost:** For RL-40.R1.2, RL-40.R1.1, RL-30.R1.2 and RL-13CR1.1 there is no significant cost impact for the current period. For RL-30.R1.1, the positive cost variance is part of recovering the cum to date CV for the subproject. For RL-41.R1.1 the unfavorable cost variances on the 100K Reactor Power/River Water isolation work will be monitored. For RL-11.R1 extended resources to get the Z/ZB Complex ready for

demolition increase the cost at completion for this work scope. For RL-13C.R1.2 the delayed cost transfer of Central Waste Complex (CWC) Base and Min-Safe Operations from BASE to ARRA (BCR implemented in August and corresponding cost transfers processed in September) and allocation of Work Force Restructuring costs.

CTD Schedule: For RL-41.R1.1 100K River Water and Reactor Power Isolation delays ultimately delay structure demolition and waste site remediation. Additional soil contamination (realized risk) is beginning to impact the schedule. For RL-13C.R1.2 baseline adjustment which deferred RH/Large Package Commercial Repack, T-Plant Repack line, WRAP Repack, and TRU Characterization and Shipping to accommodate layup activities in preparation for FY2012 funding levels, coupled with TRU Retrieval accelerated Point of Generation (POG) commercial processing; partially offset by the delay in receipt of M-91-42 feed from TRU Retrieval. For RL-11.R.1 continued inefficiencies in completing D&D of 234-5Z process and lab areas will increase the cost at completion for this work scope. For RL-40.R1.1 D&D of U-plant Cell 30 is impacted by holdup material being greater than anticipated (realized risk) causing project re-evaluation and no progress being made; insulator shortage for asbestos abatement is slowing down completion; more soil contamination than expected (realized risk) and extensive regulatory reviews (realized risk) are delaying waste site remediation completion. For RL-40.R1.2 remediation of O-Zone sites, completion of the intentionally delayed waste sites will not be achieved due to placing priority on footprint reduction.

CTD Cost: For RL-40.R1.1, RL-40.R.1.2 and RL-41.R1.1, RL-13C.R1.1 & RL-13C.R1.1 there is overall positive cost impact due to project efficiencies. There is no impact to cost for all other subprojects, For RL-30.R1.1 there are no impacts as the variance is minimal. For RL-30.R1.2 efficiencies in well drilling activities (NR-2 & HR-3) as well as multi-incremental sampling, borehole drilling, and landfill characterization activities have resulted in additional favorable cost variances. For RL-11.R1 an under-run at completion is forecast.

#### **Corrective Action:**

**Current Period Schedule:** For RL-11.R.1 schedule impacts will be addressed in an upcoming life-cycle change request. For RL-40.R1.1 and RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below). For RL-40.R1.2 O-Zone waste sites, there is no corrective action required. For RL-30.R1.1 no corrective actions required. For RL-30.R1.2 no corrective actions required. For RL-13C.R1.1 MLLW, no corrective actions required.

**Current Period Cost:** For RL-11.R1 no corrections are planned. For RL-30.R1.1 no corrective action required. For RL-30.R1.2 no corrective action required. For RL-41.R1.1 current period cost corrective actions are the same as the CTD cost corrective actions (see below). For RL-40.R1.1 U-Plant current cost variances can be covered by efficiencies in other D&D areas. For RL-40.R1.2 O-Zone Waste Site there is no required corrective action for the current period cost variance.

CTD Schedule: RL-41.R1.1 has implemented a baseline change request (BCR) to address additional soil contamination (realized risk). Schedule recovery actions are being evaluated to recover the D&D structure demolition and waste site remediation schedule activities where they can to offset where other demolition and remediation activities have been delayed. For RL13C.R1.2 no corrective action required. For RL-11.R1 work that does not support the KPP has been cancelled or deferred to out-years and the schedule impact will be addressed in an upcoming life-cycle change request. For RL-40.R1.2 O-Zone waste sites the schedule variance will be accepted in order to achieve the footprint reduction goals. For RL-40.R.1.1 D&D structure demolition activities are being accelerated where they can to offset where other demolition activities are delayed. For RL-30.R1.1 no corrective action required. For RL30.R1.2 no corrective action required.

CTD Cost: For RL-40.R1.2 no corrective actions are required. For RL-13C.R1.1 the favorable cost variance is expected to continue. For RL-30.R1.1 no corrective actions are required at this time. For RL-30.R1.2 efficiencies in well drilling activities (NR-2 & HR-3) as well as multi-incremental sampling, borehole drilling, and landfill characterization activities will remain requiring no corrective action at this time. For RL-11.R1 costs associated with completing deferred work scope will be addressed in an upcoming life-cycle BCR. For RL-13C.R1.2, RL-40.R1.1 and RL-41.R1.1 no corrective actions are required at this time.

Monthly Summary: (to include technical causes of VARs, Impacts, and Corrective Action(s):

All ARRA Subproject's cumulative to date cost and schedule variances are within reporting thresholds except for RL-11.R1 PFP D&D which has a negative schedule variance above threshold and RL-13C.R1.1 MLLW Treatment and RL-40.R1.2 Outer Zone D&D which have positive cost variances above threshold. Overall, the current period schedule and cost variances are mixed between favorable and unfavorable performance. The cumulative to date schedule variance decreased with use of overtime and deferral of work-scope to FY2012, however the favorable cost variance trend continues to erode. RL-11.R.1 PFP D&D, monthly unfavorable schedule and cost variances will continue until the a baseline change request planned for October revises the baseline for D&D of process and lab areas and getting Z/ZB Complex ready for demolition. RL-13C.R1.1 MLLW Treatment unfavorable cumulative to date schedule variance should continue to decrease for the remainder of the year as progress is made on M-91-42 MLLW treatment. RL-13C.R1.2 TRU Waste unfavorable cumulative to date schedule variance is the result of the delay of TRU Retrieval layup activities due to focus on ARRA KPP goals. The current period and cumulative favorable cost variance is skewed by \$6.8M due to the transfer of CWC Base and Min Safe Operations costs from Base to ARRA (BCR was implemented in August and associated cost transfers processed in September). RL-30.R1.1 Cleanup Operations cumulative to date favorable schedule variance continues to decrease as the ZP-1 Pump and Treat construction nears completion. RL-30.R1.2 Well Drilling Operations cumulative to date schedule variance continues to improve and there continues to be a favorable cumulative cost variance although it continues to erode this year. RL-40 R1.1 U Plant/Other D&D unfavorable cumulative to date schedule variance was reduced slightly this month with the favorable cost variance slightly eroding due to current month cost and schedule variances resulting from reduced work schedule due to heat stress and increase effort required for the mock up for the 209E Stimulus-Semi Works Zone project. RL- 40.R1.2 Outer Zone D&D unfavorable current month schedule variance results from delaying RTD Waste Sites and pipelines and performance taken in prior months for disposition of rail cars and the favorable cumulative cost variance continue to increase mainly from pass-backs from ERDF. RL-41.R1.1 100K Area Remediation unfavorable cumulative schedule variance was significantly reduced by moving work to FY2012 but the large favorable current period cost variance is skewed by \$4.7M due to pending cost transfers from Base.

#### Contractually Required Cost, Schedule, EAC variance, Management Reserve Use

**Variance in Performance BAC and EAC:** The variance at complete (VAC) between the BAC and EAC this month is positive \$57.5 million and 4.3%. This variance is within threshold for the Project. For information, the VAC threshold limit is +or- 5% and +or- \$15 million.

**Use of Management Reserve:** Management reserve, in the net amount \$700K, was increased in September 2011, as documented in change request BCR-R40-11-004R0, U-Plant Canyon Disposition \$258K and BCR-R41-11-005R0, 100K CENRTC Scope Adjustment (\$958K). Overall, management reserve in September 2011 is increased from \$14.5 million to \$15.2 million.

Best/Worst/Most Likely Estimate: The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the BAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized). The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

Prepared by:	Date:	Approved by:	Date:
Hewitt, Craig T.	10/23/2011		

(1) = Trench Face Process System; (2) = Trench Face Retrieval & Characterization System; (3) = Remove, Treat and Dispose; (4) = Confirmatory Sampling/No Action; (5) Project Specific Distributables Rewards & Recognition Program; (6) Defense Contract Audit Agency