Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Project Number: ***2966-M-3b***

ESTIMATE ELEMENT	Estimate Subtotal	Escalation	Contingency	TOTAL
		0.00%	*53.42%*	
Total Estimated Cost (TEC)	**$37,804,091**	**$0**	**$20,195,757**	**$57,999,848**
		0.00%	*53.42%*	
Total Cost	**$37,804,091**	**$0**	**$20,195,757**	**$57,999,848**
Rounded Total Cost (Rounded to the nearest $ 10000)				**$58,000,000**

		Remarks
Type of Estimate:	Project Support	E/T Cap Over Soils in the Central Zone and South Perimeter Area in 2035
Estimator:	J. Folker, 6-0322	
Checked By:		
Approved By:		

Project Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		Capital Costs	$37,396,015	$0	$20,134,546	53.84%	$57,530,561
		--Construction Activities	$31,425,223	$0	$20,134,546	64.07%	$51,559,769
		----Mobilization/Demobilization	$522,116	$0	$205,870	39.43%	$727,986
		-----Construction Equipment	$40,000	$0	$15,772	39.43%	$55,772
		-----Submittals/Implementation Plans	$482,116	$0	$190,098	39.43%	$672,214
		-------Operational Plans	$149,660	$0	$59,011	39.43%	$208,671
		--------Develop MSA Plan	$41,228	$0	$16,256	39.43%	$57,484
		--------Develop ORR POA & Imp. Plan	$41,228	$0	$16,256	39.43%	$57,484
		--------Final Inspection Report	$250,000	$0	$98,575	39.43%	$348,575
		-----Site Security Personnel	$0	$0	$0	40.00%	$0
		----Monitoring, Sampling, Testing, and Analysis (Capital)	$0	$0	$0	0.00%	$0
		----Remediation	$30,903,107	$0	$19,928,676	64.49%	$50,831,782
		-----Surface Water Collection or Containment	$106,347	$0	$37,221	35.00%	$143,568
		-------Drainage Ditches & Culverts (2035)	$106,347	$0	$37,221	35.00%	$143,568
		-----Soil Excavation/Clean Backfill	$25,024,507	$0	$18,737,004	74.87%	$43,761,511
		-------North Perimeter Area Excavate/Backfill/Dispose (2012)	$313,766	$0	$203,948	65.00%	$517,714
		--------CPP-31 Excavate/Backfill/Dispose (2035)	$24,710,741	$0	$18,533,056	75.00%	$43,243,797
		-----Cap or Cover	$5,772,253	$0	$1,154,451	20.00%	$6,926,703
		--------Infiltration Barrier (2012)	$2,562,278	$0	$512,456	20.00%	$3,074,733
		--------Infiltration Barrier (2035)	$99,998	$0	$20,000	20.00%	$119,998
		-------Tank Farm ET Cover Central Zone (2035)	$2,472,747	$0	$494,549	20.00%	$2,967,296
		-------Tank Farm ET Cover South Perimeter Area (2035)	$637,230	$0	$127,446	20.00%	$764,676
		--Professional/Technical Services (Capital)	$5,970,792	$0	$0	0.00%	$5,970,792
		----Project Management (Capital)	$1,571,261	$0	$0	0.00%	$1,571,261
		----Remedial Design/Remedial Action Work Plan	$2,514,018	$0	$0	0.00%	$2,514,018

Project Summary Report

Project Name: *WAG 3*
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: *INTEC Tank Farm*
Estimate Number: *2966-M-3b*

Client: *L. Cahn, 6-3080*
Prepared By: *J. Folker, 6-0322*
Estimate Type: *Project Support*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		----Construction Management (Capital)	$1,885,513	$0	$0	0.00%	$1,885,513
		Operational and Maintenance (O&M) Costs	$234,667	$0	$35,200	15.00%	$269,867
		--O&M Activities	$83,882	$0	$12,582	15.00%	$96,465
		----Extraction, Containment, or Treatment Systems	$75,000	$0	$11,250	15.00%	$86,250
		----Project Management (O&M) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		--Surveillance and Monitoring (S&M)	$136,612	$0	$20,492	15.00%	$157,104
		----Project Management (S&M) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		----Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)	$127,730	$0	$19,159	15.00%	$146,889
		--Institutional Controls (IC)	$14,172	$0	$2,126	15.00%	$16,298
		----Site Information Database (CFLUP) (Annual)	$2,972	$0	$446	15.00%	$3,418
		----Annual Institutional Control Inspection	$2,315	$0	$348	15.00%	$2,665
		----Project Management (IC) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		Periodic Costs	$173,409	$0	$26,011	15.00%	$199,421
		--Construction/O&M Activities (Periodic)	$109,902	$0	$16,485	15.00%	$126,387
		----Remedy Failure or Replacement (Annual)	$3,555	$0	$533	15.00%	$4,088
		----Infiltration Barrier Maintenance	$106,347	$0	$15,952	15.00%	$122,299
		--Professional/Technical Services (Periodic)	$45,077	$0	$6,762	15.00%	$51,839
		----Five Year Reviews	$45,077	$0	$6,762	15.00%	$51,839
		--Update Institutional Controls Plan (Annual)	$18,430	$0	$2,764	15.00%	$21,194
Total		OU 3-14 FS ALTERNATIVE 3b: INST CTRLS, MONITORING, SOURCE REMOVAL & CONTAINMENT	$37,804,091	$0	$20,195,757	53.42%	$57,999,848

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Construction Equipment													
Memo:	***Assume 20 pieces of equipment at $1,000 each.***												
		GEN	*U.C. per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Mobilize Equipment for Cap			1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.												
		GEN	*U.C. per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Demobilize Equipment for Cap			1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.												
	Subtotal							$0	$0	$0	$0	$40,000	$40,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$40,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$15,772	$15,772
---Total	**Construction Equipment**					**0**		**$0**	**$0**	**$0**	**$0**	**$55,772**	**$55,772**
Operational Plans													
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*37573*	*0*	*37573*
	Operational & Layout plan (cost per year)			1.00	YR	0		$0	$0	$0	$37,573	$0	$37,573
Memo:	The operation and layout plan will be a annually produced external document that will be used as a basis for budget. This document will be reviewed through the ORB process prior to state, EPA, and DOE review. (cost from previous ISG estimate)												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*6530*	*0*	*6530*
	Rad monitoring & control plan (cost per year)			1.00	YR	0		$0	$0	$0	$6,530	$0	$6,530
Memo:	The radiation monitoring and control plan will be a annually produced document that will utelize pre-existing Rad Con procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*5557*	*0*	*5557*
	HI exposure & sample plan (cost per year)			1.00	YR	0		$0	$0	$0	$5,557	$0	$5,557
Memo:	The industrial hygene exposure and sampling plan will be a annually produced document that will utilize pre-existing IH procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Operational Plans													
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*50000*	*0*	*50000*
	Training Plan			1.00	LS	0		$0	$0	$0	$50,000	$0	$50,000
		CWI	*U.C. per LS*					*0*	*0*	*0*	*50000*	*0*	*50000*
	Quality Control Plan			1.00	LS	0		$0	$0	$0	$50,000	$0	$50,000
	Subtotal							$0	$0	$0	$149,660	$0	$149,660
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$149,660**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$59,011	$0	$59,011
---Total	**Operational Plans**					0		**$0**	**$0**	**$0**	**$208,671**	**$0**	**$208,671**
Develop MSA Plan													
Memo:	***The MSA plan will be a annually produced document. The cost associated with this plan includes generation of the plan, project review of the plan, document finilization, and generation of a checklist. (cost from previous ISG estimate).***												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*41228*	*0*	*41228*
	MSA plan			1.00	LS	0		$0	$0	$0	$41,228	$0	$41,228
	Subtotal							$0	$0	$0	$41,228	$0	$41,228
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$41,228**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$16,256	$0	$16,256
---Total	**Develop MSA Plan**					0		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Develop ORR POA & Imp. Plan												
Memo:	***The ORR Plan Of Action (POA) and the implementation plan's combined cost is assumed to equal the the MSA plan cost.***											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*41228*	*0*	*41228*
	ORR POA & imp plan		1.00	LS	0		$0	$0	$0	$41,228	$0	$41,228
	Subtotal						$0	$0	$0	$41,228	$0	$41,228
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$41,228**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$16,256	$0	$16,256
---Total	**Develop ORR POA & Imp. Plan**				0		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**
Final Inspection Report												
Memo:	***Cost allowance is based on the PERA for WAG 7 SDA (INEEL/EXT-02-01258) Rev-0.***											
		CWI	*U.C. per LS*				*250000*	*0*	*0*	*0*	*0*	*250000*
	FINAL INSPECTION REPORT		1.00	LS	0		$250,000	$0	$0	$0	$0	$250,000
	Subtotal						$250,000	$0	$0	$0	$0	$250,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$250,000**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$98,575	$0	$0	$0	$0	$98,575
—Total	**Final Inspection Report**				0		**$348,575**	**$0**	**$0**	**$0**	**$0**	**$348,575**
Site Security Personnel												
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***											
		CWI	*U.C. per YR*				*0.01*	*0*	*0*	*0*	*0*	*0.01*
	Security Support @ Site Access Gate		1.00	YR	0		$0	$0	$0	$0	$0	$0

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DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Security Personnel													
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***												
	Subtotal							$0	$0	$0	$0	$0	$0
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$0**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$0	$0
---Total	**Site Security Personnel**					0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Monitoring, Sampling, Testing, and Analysis (Capital)													
			U.C. per LS					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Monitoring, Sampling, Testing and Analysis			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Analytical laboratory capital equipment costs will be paid for by RAL												
	Subtotal							$0	$0	$0	$0	$0	$0
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$0**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$0	$0
---Total	**Monitoring, Sampling, Testing, and Analysis (Capital)**					0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Drainage Ditches & Culverts (2035)													
		GEN	*U.C. per LF*					*0*	*0*	*0*	*69.4*	*0*	*69.4*
	Drainage Ditches			1,000.00	LF	0		$0	$0	$0	$69,400	$0	$69,400
Memo:	Per estimate file # 2956-E, 236 CY concrete/1700 LF = 0.1388 CY/LF x $500/LF = $69.40/LF. Ditches on south side only in 2035.												

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DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Drainage Ditches & Culverts (2035)													
		GEN	*U.C. per LF*					*0*	*0*	*0*	*43.4*	*0*	*43.4*
	Culverts			300.00	LF	0		$0	$0	$0	$13,020	$0	$13,020
Memo:	Per estimate file # 2956-E (FY-2000), 30" CMP @ $40/LF installed directs. Escalated 9.06% = $43.40 directs. Cuverts on south side only in 2035.												
	Subtotal							$0	$0	$0	$82,420	$0	$82,420
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$0	$0	$0	$23,927	$0	$23,927
	Subtotal Estimate												**$106,347**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$37,221	$0	$37,221
---Total	**Drainage Ditches & Culverts (2035)**					0		**$0**	**$0**	**$0**	**$143,568**	**$0**	**$143,568**

North Perimeter Area Excavate/Backfill/Dispose (2012)

Memo: ***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***

		GEN	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Excavation			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Assume 0.5 CY/min. cycle time to excavate, swing, walk, load into Stoller rolloffs, return. 50 min hour x 7 hr day. 350 min x 0.5 CY/min = 175 CY/day. 3,300 CY/175 CY/Day = 20 Days. This cycle time accounts for survey time.												
00E1014		GEN	*U.C. per ea*			*200*		*0*	*27084*	*0*	*0*	*0*	*27084*
	Cat 350 3 cy Hoe			1.00	ea	200	00E1014	$0	$27,084	$0	$0	$0	$27,084
00E2050		GEN	*U.C. per ea*			*200*		*0*	*6276*	*0*	*0*	*0*	*6276*
	4000 gal Water Truck			1.00	ea	200	00E2050	$0	$6,276	$0	$0	$0	$6,276
CN-EQLT		GEN	*U.C. per ea*			*200*	*$38.20*	*7640*	*0*	*0*	*0*	*0*	*7640*
	EQUIPMENT OPERATOR LIGHT EQUIP GROUP 4(<4 CY)			1.00	ea	200	CN-EQLT	$7,640	$0	$0	$0	$0	$7,640
CN-TRHV		GEN	*U.C. per ea*			*200*	*$37.47*	*7494*	*0*	*0*	*0*	*0*	*7494*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			1.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*200*	*$35.21*	*7042*	*0*	*0*	*0*	*0*	*7042*
	LABORER			2.00	ea	400	CN-LABR	$14,084	$0	$0	$0	$0	$14,084

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)													
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***												
		STOLLER	*U.C. per TONS*					*0*	*0*	*0*	*16*	*0*	*16*
	Transport Soils to ICDF			5,709.00	TONS	0		$0	$0	$0	$91,344	$0	$91,344
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, INTEC transportation costs. 1.73 tons/CY negotiated factor.												
		GEN	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Fill			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Import 3,300*1.1 = 3,630 CY material from Rye Grass Flats (10 miles one way). 3,630 CY/10 CY/Load = 363 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 363 Loads/7 Loads/Day/Truck = 52 Days/Truck. 52 Days/Truck/4 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*130*		*0*	*5697.9*	*0*	*0*	*0*	*5697.9*
	Cat 950 4 cy Loader			1.00	ea	130	00E0940	$0	$5,698	$0	$0	$0	$5,698
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*130*		*0*	*4088.5*	*0*	*0*	*0*	*4088.5*
	12 cy End Dump			4.00	ea	520	00E2010	$0	$16,354	$0	$0	$0	$16,354
00E2050		GEN	*U.C. per ea*			*130*		*0*	*4079.4*	*0*	*0*	*0*	*4079.4*
	4000 gal Water Truck			1.00	ea	130	00E2050	$0	$4,079	$0	$0	$0	$4,079
00E0912		GEN	*U.C. per ea*			*130*		*0*	*8563.1*	*0*	*0*	*0*	*8563.1*
	Cat 14 Grader			1.00	ea	130	00E0912	$0	$8,563	$0	$0	$0	$8,563
00E0630		GEN	*U.C. per ea*			*130*		*0*	*3441.1*	*0*	*0*	*0*	*3441.1*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	130	00E0630	$0	$3,441	$0	$0	$0	$3,441
CN-ENGR		GEN	*U.C. per ea*			*130*	*$39.39*	*5120.7*	*0*	*0*	*0*	*0*	*5120.7*
	OPERATING ENGINEER			3.00	ea	390	CN-ENGR	$15,362	$0	$0	$0	$0	$15,362
CN-TRHV		GEN	*U.C. per ea*			*130*	*$37.47*	*4871.1*	*0*	*0*	*0*	*0*	*4871.1*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	650	CN-TRHV	$24,356	$0	$0	$0	$0	$24,356
CN-LABR		GEN	*U.C. per ea*			*130*	*$35.21*	*4577.3*	*0*	*0*	*0*	*0*	*4577.3*
	LABORER			2.00	ea	260	CN-LABR	$9,155	$0	$0	$0	$0	$9,155
CN-SURV		GEN	*U.C. per ea*			*130*	*$37.19*	*4834.7*	*0*	*0*	*0*	*0*	*4834.7*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	260	CN-SURV	$9,669	$0	$0	$0	$0	$9,669

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)													
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***												
	Reseeding	GEN	*U.C. per ACRES*	0.50	ACRES	0		*0* $0	*0* $0	*0* $0	*3000* $1,500	*0* $0	*3000* $1,500
	Characterization of North Perimeter	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*15000* $15,000	*0* $0	*15000* $15,000
Memo:	Assume cores would be collected on a random grid from the north perimeter area at 10 locations to a depth of 4-ft analyzed for Cs-137 at RESL. If more than 50% exceeded the PRG we would do no more characterization and would assume all of the soil was contaminated at concentrations above the PRG and would dig all of it up for disposal at ICDF. Assume cores would be analyzed in two-ft increments. Under this assumption sampling and analysis for 20 soil samples for Cs-137 will be done. Direct-push rig and split-spoons will be used. $5,000 for analytical services, validation, adders, and SAM services, for 20 samples. For retrieving samples, 2 person crew and equipment @ $250/hr for 1 week. Total = $5K + $10K = $15K.												
	Subtotal							$87,760	$71,496	$0	$107,844	$0	$267,099
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		17.47%					$25,477	$20,755	$0	$435	$0	$46,667
	Subtotal Estimate												**$313,766**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$73,604	$59,963	$0	$70,382	$0	$203,948
---Total	**North Perimeter Area Excavate/Backfill/Dispose (2012)**					**2,360**		**$186,840**	**$152,214**	**$0**	**$178,661**	**$0**	**$517,714**
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17825 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
	Procurement	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Memo:	See estimate file # 5989-D, WAG 7, for basis.												
	Retieval Structure Structural Steel	CWI	*U.C. per SF*	43,750.00	SF	0		*0* $0	*0* $0	*35.58* $1,556,625	*0* $0	*0* $0	*35.58* $1,556,625
Memo:	See estimate file # 5989-D. Structure is assumed to be 250 x 175 feet (50 feet beyond excavation). Costs include mobilization, shipping, erection tech support, and tech support travel costs. Also included with this structure are all personnel doors, lightning protection, and base frame. This estimate is based on actual purchase contract from the first 6 bay retrieval building purchased/leased of the same size and design.												
	Airlock Structures	CWI	*U.C. per SF*	12,250.00	SF	0		*0* $0	*0* $0	*44.51* $545,248	*0* $0	*0* $0	*44.51* $545,248
	Emissions Monitoring & Stack	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*213000* $213,000	*0* $0	*0* $0	*213000* $213,000

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
	HVAC	CWI	*U.C. per SF*	43,750.00	SF	0		*0* $0	*0* $0	*7.53* $329,438	*0* $0	*0* $0	*7.53* $329,438
	Electrical Distribution	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*365415* $365,415	*0* $0	*0* $0	*365415* $365,415
	Video CCTV	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*120400* $120,400	*0* $0	*0* $0	*120400* $120,400
	Rad Con Equipment	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*628000* $628,000	*0* $0	*0* $0	*628000* $628,000
	Fire Detection and Alarm	CWI	*U.C. per SF*	43,750.00	SF	0		*0* $0	*0* $0	*3.52* $154,000	*0* $0	*0* $0	*3.52* $154,000
	Telehandler	CWI	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*370000* $370,000	*0* $0	*0* $0	*370000* $370,000
	Foundation Materials	CWI	*U.C. per LF*	850.00	LF	0		*0* $0	*0* $0	*240* $204,000	*0* $0	*0* $0	*240* $204,000
	Support Trailers	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*90000* $90,000	*0* $0	*0* $0	*90000* $90,000
	Power Generator	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*44000* $44,000	*0* $0	*0* $0	*44000* $44,000
	Remote Excavator	CWI	*U.C. per ea*	2.00	ea	0		*0* $0	*0* $0	*829100* $1,658,200	*0* $0	*0* $0	*829100* $1,658,200
Memo:	Assume 2 excavators cannot be decontaminated, so they will have to be procured. Costs from estimate file # 5989-D, WAG 7. Costs include robotics.												
	Shoring	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*50000* $50,000	*0* $0	*0* $0	*50000* $50,000
	Conveyor	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*75000* $75,000	*0* $0	*0* $0	*75000* $75,000

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2036)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
	Waste Boxes	CWI	*U.C. per ea*	3,500.00	ea	0		*0*	*0*	*1066*	*0*	*0*	*1066*
								$0	$0	$3,731,000	$0	$0	$3,731,000
Memo:	Excavate to 25 ft BGS in boxes. (10500 CY). Waste box 7A Type A CS Box, Bull Run Model CO-91, 90 CF, (3CY). 10500 CY /3 CY/Box = 3500 Boxes.												
	Soil Sacks	CWI	*U.C. per ea*	792.00	ea	0		*0*	*0*	*500*	*0*	*0*	*500*
								$0	$0	$396,000	$0	$0	$396,000
Memo:	17,625 CY (Total) -10,500 CY (1st 25 feet Excavation) = 7,125 CY in buritto bags transported by rolloffs to ICDF. Each bag = 9 CY. 7,125 CY/9 CY/Bag = 792 Bags.												
	PPE Allowance	CWI	*U.C. per LS*	1.00	LS	0		*0*	*0*	*418600*	*0*	*0*	*418600*
								$0	$0	$418,600	$0	$0	$418,600
Memo:	PPE allowance assumes 20 entires/day x 322 working days @ $65.00/ entry.												
	Construction of Retrieval Structure	CWI	*U.C. per LS*	1.00	LS	0		*0*	*0*	*0*	*0*	*0.01*	*0.01*
								$0	$0	$0	$0	$0	$0
Memo:	See estimate file # 5989-D, WAG 7, for basis.												
	Facility Erection	CWI	*U.C. per SF*	43,750.00	SF	0		*0*	*0*	*0*	*28.23*	*0*	*28.23*
								$0	$0	$0	$1,235,063	$0	$1,235,063
	Airlock Erection	CWI	*U.C. per SF*	12,250.00	SF	0		*0*	*0*	*0*	*39.89*	*0*	*39.89*
								$0	$0	$0	$488,653	$0	$488,653
	Site Work	CWI	*U.C. per LS*	1.00	LS	0		*0*	*0*	*0*	*32000*	*0*	*32000*
								$0	$0	$0	$32,000	$0	$32,000
	Fire Detection and Alarm	CWI	*U.C. per SF*	43,750.00	SF	0		*0*	*0*	*0*	*1.4*	*0*	*1.4*
								$0	$0	$0	$61,250	$0	$61,250
	Facility Mechanical	CWI	*U.C. per SF*	43,750.00	SF	0		*0*	*0*	*0*	*13.76*	*0*	*13.76*
								$0	$0	$0	$602,000	$0	$602,000
	Facility Electrical	CWI	*U.C. per SF*	43,750.00	SF	0		*0*	*0*	*0*	*13.02*	*0*	*13.02*
								$0	$0	$0	$569,625	$0	$569,625
	Airlock Mechanical, Electrical and Interior Walls	CWI	*U.C. per SF*	12,250.00	SF	0		*0*	*0*	*0*	*93.39*	*0*	*93.39*
								$0	$0	$0	$1,144,028	$0	$1,144,028

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
	Electrical Distribution	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*585000* $585,000	*0* $0	*585000* $585,000
	Allowance for Building and Equipment Maintenance @5% of Facility Erection Costs	CWI	*U.C. per $*	4,717,619.00	$	0		*0* $0	*0* $0	*0* $0	*0.05* $235,881	*0* $0	*0.05* $235,881
	"Retrieval "	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Memo:	A detailed, quantifiable, bottoms-up technique was utilized to apply the labor, and supervision costs to perform the activities. Input from the project team included crew make-up, durations. Productivity rate = 2 CY/hr x 10 hr/day x 2 shifts/day = 40 CY/day. 10500 CY/40 CY/day = 262 days. (For 1st 25 feet). For 25 feet to bottom, Productivity rate = 6 CY/hr x 10 hr/day x 2 shifts/day = 120 CY/day. 7,125 CY/120 CY/day = 60 days. Total duration = 262 + 60 = 322 days.												
A13	RECORDS MANAGEMENT/DOC CONTROL	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$21.86* A13	*70389.2* $70,389	*0* $0	*0* $0	*0* $0	*0* $0	*70389.2* $70,389
A14	SECRETARIAL	CWI	*U.C. per FTE*	1.50	FTE	*3220* 4,830	*$23.51* A14	*75702.2* $113,553	*0* $0	*0* $0	*0* $0	*0* $0	*75702.2* $113,553
E17	QUALITY ENGINEERING	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$55.86* E17	*179869.2* $179,869	*0* $0	*0* $0	*0* $0	*0* $0	*179869.2* $179,869
E18	RADIOLOGICAL ENGINEERING	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$53.60* E18	*172592* $172,592	*0* $0	*0* $0	*0* $0	*0* $0	*172592* $172,592
E19	SAFETY ENGINEERING	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$54.16* E19	*174395.2* $174,395	*0* $0	*0* $0	*0* $0	*0* $0	*174395.2* $174,395
E41	FIRE PROTECTION	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$61.36* E41	*197579.2* $197,579	*0* $0	*0* $0	*0* $0	*0* $0	*197579.2* $197,579
F10	WORK PLANNING AND/OR SCHEDULING	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$41.59* F10	*133919.8* $133,920	*0* $0	*0* $0	*0* $0	*0* $0	*133919.8* $133,920
P19	RECORDS MANAGEMENT/DOC CONTROL	CWI	*U.C. per FTE*	2.00	FTE	*3220* 6,440	*$33.42* P19	*107612.4* $215,225	*0* $0	*0* $0	*0* $0	*0* $0	*107612.4* $215,225

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
P23	TRAINING	CWI	*U.C. per FTE*	2.00	FTE	*3220* 6,440	*$43.96* P23	*141551.2* $283,102	*0* $0	*0* $0	*0* $0	*0* $0	*141551.2* $283,102
S08	INDUSTRIAL HYGIENE	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$50.84* S08	*163704.8* $163,705	*0* $0	*0* $0	*0* $0	*0* $0	*163704.8* $163,705
S21	REGULATORY COMPLIANCE - ENVIRONMENTAL	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$61.64* S21	*198480.8* $198,481	*0* $0	*0* $0	*0* $0	*0* $0	*198480.8* $198,481
U21	LABORER	CWI	*U.C. per FTE*	15.00	FTE	*3220* 48,300	*$21.47* U21	*69133.4* $1,037,001	*0* $0	*0* $0	*0* $0	*0* $0	*69133.4* $1,037,001
U60	RADIOLOGICAL CONTROL TECH	CWI	*U.C. per FTE*	6.00	FTE	*3220* 19,320	*$39.13* U60	*125998.6* $755,992	*0* $0	*0* $0	*0* $0	*0* $0	*125998.6* $755,992
U73	WASTE OPERATIONS TECH	CWI	*U.C. per FTE*	15.00	FTE	*3220* 48,300	*$34.70* U73	*111734* $1,676,010	*0* $0	*0* $0	*0* $0	*0* $0	*111734* $1,676,010
X16	WASTE MANAGEMENT	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$53.70* X16	*172914* $172,914	*0* $0	*0* $0	*0* $0	*0* $0	*172914* $172,914
X22	SAFETY ANALYSIS	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$64.64* X22	*208140.8* $208,141	*0* $0	*0* $0	*0* $0	*0* $0	*208140.8* $208,141
Z03	MANAGER, OPERATIONS	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$75.08* Z03	*241757.6* $241,758	*0* $0	*0* $0	*0* $0	*0* $0	*241757.6* $241,758
Z07	SUPERVISOR, FAC SUPPORT SERVICES	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$50.79* Z07	*163543.8* $163,544	*0* $0	*0* $0	*0* $0	*0* $0	*163543.8* $163,544
Z10	FOREMAN, OPERATIONS	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$43.33* Z10	*139522.6* $139,523	*0* $0	*0* $0	*0* $0	*0* $0	*139522.6* $139,523
U83	CONSTRUCTION EQUIPMENT OPERATOR (FORCE ACCT)	CWI	*U.C. per FTE*	2.00	FTE	*3220* 6,440	*$36.16* U83	*116435.2* $232,870	*0* $0	*0* $0	*0* $0	*0* $0	*116435.2* $232,870

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
	Shift Differential	CWI	*U.C. per $*	3,246,355.00	$	0		*0.1* $324,636	*0* $0	*0* $0	*0* $0	*0* $0	*0.1* $324,636
Memo:	Total labor = $6,492,710/2 = $3,246,355 (back shift). 10% shift differential for back shift.												
	"Demolition and Removal"	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
	DD&D Facilities @25% of Construction Costs	CWI	*U.C. per $*	4,717,619.00	$	0		*0* $0	*0* $0	*0* $0	*0.25* $1,179,405	*0* $0	*0.25* $1,179,405
	"On Site Disposal"	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
U77	CONSTRUCTION TEAMSTER (FORCE ACCT)	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$32.15* U77	*103523* $103,523	*0* $0	*0* $0	*0* $0	*0* $0	*103523* $103,523
U84	CONSTRUCTION LABORER (FORCE ACCT)	CWI	*U.C. per FTE*	1.00	FTE	*3220* 3,220	*$31.36* U84	*100979.2* $100,979	*0* $0	*0* $0	*0* $0	*0* $0	*100979.2* $100,979
00E1921	40 ft Roll-off Trailer w/Tractor	CWI	*U.C. per EA*	1.00	EA	*3220* 3,220	00E1921	*0* $0	*180384.4* $180,384	*0* $0	*0* $0	*0* $0	*180384.4* $180,384
	"Fill"	GEN	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Memo:	Import 19,178 CY material from Rye Grass Flats (10 miles one way). 19,178 CY/10 CY/Load = 1918 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 1918 Loads/7 Loads/Day/Truck = 274 Days/Truck. 274 Days/Truck/8 Trucks =35 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*350* 350	00E0940	*0* $0	*15340.5* $15,341	*0* $0	*0* $0	*0* $0	*15340.5* $15,341
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	6.00	ea	*350* 2,100	00E2010	*0* $0	*11007.5* $66,045	*0* $0	*0* $0	*0* $0	*11007.5* $66,045
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*350* 350	00E2050	*0* $0	*10983* $10,983	*0* $0	*0* $0	*0* $0	*10983* $10,983

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
CPP-31 Excavate/Backfill/Dispose (2035)													
Memo:	***See also FS, section 4.4.3.1. 17625 CY. Assume 75% of soils (13,220 CY) to be remotely excavated in a negative pressure environment.***												
00E0960		GEN	*U.C. per ea*			*350*		*0*	*12873*	*0*	*0*	*0*	*12873*
	Cat D4 Dozer			1.00	ea	350	00E0960	$0	$12,873	$0	$0	$0	$12,873
00E0630		GEN	*U.C. per ea*			*350*		*0*	*9264.5*	*0*	*0*	*0*	*9264.5*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	350	00E0630	$0	$9,265	$0	$0	$0	$9,265
CN-ENGR		GEN	*U.C. per ea*			*350*	*$39.39*	*13786.5*	*0*	*0*	*0*	*0*	*13786.5*
	OPERATING ENGINEER			3.00	ea	1,050	CN-ENGR	$41,360	$0	$0	$0	$0	$41,360
CN-TRHV		GEN	*U.C. per ea*			*350*	*$37.47*	*13114.5*	*0*	*0*	*0*	*0*	*13114.5*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			7.00	ea	2,450	CN-TRHV	$91,802	$0	$0	$0	$0	$91,802
CN-LABR		GEN	*U.C. per ea*			*350*	*$35.21*	*12323.5*	*0*	*0*	*0*	*0*	*12323.5*
	LABORER			2.00	ea	700	CN-LABR	$24,647	$0	$0	$0	$0	$24,647
CN-SURV		GEN	*U.C. per ea*			*350*	*$37.19*	*13016.5*	*0*	*0*	*0*	*0*	*13016.5*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	700	CN-SURV	$26,033	$0	$0	$0	$0	$26,033
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*3000*	*0*	*3000*
	Reseeding			1.00	ACRES	0		$0	$0	$0	$3,000	$0	$3,000
	Subtotal							$7,243,541	$294,890	$10,948,925	$6,135,903	$0	$24,623,260
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.36%					$53,369	$33,241	$0	$871	$0	$87,481
	Subtotal Estimate												**$24,710,741**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$5,472,683	$246,099	$8,211,694	$4,602,581	$0	$18,533,056
—Total	**CPP-31 Excavate/Backfill/Dispose (2035)**					**193,270**		**$12,769,593**	**$674,230**	**$19,160,619**	**$10,739,355**	**$0**	**$43,243,797**
Infiltration Barrier (2012)													
		GEN	*U.C. per LS*					*0*	*0*	*0*	*100000*	*0*	*100000*
	Grading and Preparation			1.00	LS	0		$0	$0	$0	$100,000	$0	$100,000

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Infiltration Barrier (2012)												
		GEN	*U.C. per ACRES*				*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-North Perimeter Area		0.51	ACRES	0		$0	$0	$0	$107,100	$0	$107,100
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres											
		GEN	*U.C. per ACRES*				*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-Central Zone Area		4.07	ACRES	0		$0	$0	$0	$854,700	$0	$854,700
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. 177,216 SF (per CWI Design Engr) = 4.07 Acres											
		GEN	*U.C. per ACRES*				*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-South Perimeter Area		0.90	ACRES	0		$0	$0	$0	$189,000	$0	$189,000
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. South perimeter area = 39,181 SF = 0.90 acres											
		GEN	*U.C. per ACRES*				*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-PRCZ Area		3.50	ACRES	0		$0	$0	$0	$735,000	$0	$735,000
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. PRCZ Perimeter= 151,853 SF = 3.5 acres											
	Subtotal						$0	$0	$0	$1,985,800	$0	$1,985,800
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$576,478	$0	$576,478
	Subtotal Estimate											**$2,562,278**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$512,456	$0	$512,456
—Total	**Infiltration Barrier (2012)**				**0**		**$0**	**$0**	**$0**	**$3,074,733**	**$0**	**$3,074,733**
Infiltration Barrier (2035)												
		GEN	*U.C. per LS*				*0*	*0*	*0*	*25000*	*0*	*25000*
	Grading and Preparation		1.00	LS	0		$0	$0	$0	$25,000	$0	$25,000

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Infiltration Barrier (2035)												
		GEN *U.C. per ACRES*					*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-CPP-15		0.25	ACRES	0		$0	$0	$0	$52,500	$0	$52,500
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres											
	Subtotal						$0	$0	$0	$77,500	$0	$77,500
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$22,498	$0	$22,498
	Subtotal Estimate											**$99,998**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$20,000	$0	$20,000
—Total	**Infiltration Barrier (2035)**				**0**		**$0**	**$0**	**$0**	**$119,998**	**$0**	**$119,998**

Tank Farm ET Cover Central Zone (2035)

Memo: ***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***

		GEN *U.C. per CY*					*0*	*0*	*0*	*54.05*	*0*	*54.05*
	D&D Infiltration Barrier		2,188.00	CY	0		$0	$0	$0	$118,261	$0	$118,261
Memo:	Barrier is 177,216 S.F. Volume = 177,216 x 4/12 (thk) = 59,072 CF/27 CF/CY = 2,188 C.Y. Per RS Means Environmental Remediation Cost Data 2003 Edition, escalated to 2006 (9.06%), Demolition, Pavements, unit cost is $54.05/CY. Cost includes disposal.											
		GEN *U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Grading Fill-Central Area		18,372.00	CY	0		$0	$0	$0	$734,880	$0	$734,880
Memo:	Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.											
		GEN *U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-Central Area"		1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.											
		GEN *U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel		3,283.00	CY	0		$0	$0	$0	$82,075	$0	$82,075
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.											

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0940	*0* $0	*1753.2* $1,753	*0* $0	*0* $0	*0* $0	*1753.2* $1,753
Memo: Loader at material source.													
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*40* 160	00E2010	*0* $0	*1258* $5,032	*0* $0	*0* $0	*0* $0	*1258* $5,032
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E2050	*0* $0	*1255.2* $1,255	*0* $0	*0* $0	*0* $0	*1255.2* $1,255
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0912	*0* $0	*2634.8* $2,635	*0* $0	*0* $0	*0* $0	*2634.8* $2,635
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0630	*0* $0	*1058.8* $1,059	*0* $0	*0* $0	*0* $0	*1058.8* $1,059
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*40* 120	*$39.39* CN-ENGR	*1575.6* $4,727	*0* $0	*0* $0	*0* $0	*0* $0	*1575.6* $4,727
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*40* 200	*$37.47* CN-TRHV	*1498.8* $7,494	*0* $0	*0* $0	*0* $0	*0* $0	*1498.8* $7,494
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*40* 80	*$35.21* CN-LABR	*1408.4* $2,817	*0* $0	*0* $0	*0* $0	*0* $0	*1408.4* $2,817
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*40* 80	*$37.19* CN-SURV	*1487.6* $2,975	*0* $0	*0* $0	*0* $0	*0* $0	*1487.6* $2,975
	"1'-0" Cobble Layer-Central Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo: Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 1.0 = 177,216 CF/27 CF/CY = 6564 CY.													
	Cobble Stone-Central Area	GEN	*U.C. per CY*	6,564.00	CY	0		*0* $0	*0* $0	*0* $0	*40* $262,560	*0* $0	*40* $262,560
Memo: Cobble stone material cost delivered (local vendor quote). Deliver 6,564 CY cobble from town, to borrow pile, 1/2 mile from job site. 6,564 CY/10 CY/Load = 656 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 656 Loads/24 Loads/Day/Truck = 28 Days/Truck. 28 Days/Truck/4 Trucks = 7 Days. Equipment costs from Blue Book.													

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940		GEN	*U.C. per ea*			*70*		*0*	*3068.1*	*0*	*0*	*0*	*3068.1*
	Cat 950 4 cy Loader			1.00	ea	70	00E0940	$0	$3,068	$0	$0	$0	$3,068
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*70*		*0*	*2201.5*	*0*	*0*	*0*	*2201.5*
	12 cy End Dump			4.00	ea	280	00E2010	$0	$8,806	$0	$0	$0	$8,806
00E2050		GEN	*U.C. per ea*			*70*		*0*	*2196.6*	*0*	*0*	*0*	*2196.6*
	4000 gal Water Truck			1.00	ea	70	00E2050	$0	$2,197	$0	$0	$0	$2,197
00E0912		GEN	*U.C. per ea*			*70*		*0*	*4610.9*	*0*	*0*	*0*	*4610.9*
	Cat 14 Grader			1.00	ea	70	00E0912	$0	$4,611	$0	$0	$0	$4,611
00E0630		GEN	*U.C. per ea*			*70*		*0*	*1852.9*	*0*	*0*	*0*	*1852.9*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	70	00E0630	$0	$1,853	$0	$0	$0	$1,853
CN-ENGR		GEN	*U.C. per ea*			*70*	*$39.39*	*2757.3*	*0*	*0*	*0*	*0*	*2757.3*
	OPERATING ENGINEER			3.00	ea	210	CN-ENGR	$8,272	$0	$0	$0	$0	$8,272
CN-TRHV		GEN	*U.C. per ea*			*70*	*$37.47*	*2622.9*	*0*	*0*	*0*	*0*	*2622.9*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	350	CN-TRHV	$13,115	$0	$0	$0	$0	$13,115
CN-LABR		GEN	*U.C. per ea*			*70*	*$35.21*	*2464.7*	*0*	*0*	*0*	*0*	*2464.7*
	LABORER			2.00	ea	140	CN-LABR	$4,929	$0	$0	$0	$0	$4,929
CN-SURV		GEN	*U.C. per ea*			*70*	*$37.19*	*2603.3*	*0*	*0*	*0*	*0*	*2603.3*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	140	CN-SURV	$5,207	$0	$0	$0	$0	$5,207
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-Central Area*			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			3,283.00	CY	0		$0	$0	$0	$82,075	$0	$82,075

Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940		GEN	*U.C. per ea*			*40*		*0*	*1753.2*	*0*	*0*	*0*	*1753.2*
	Cat 950 4 cy Loader			1.00	ea	40	00E0940	$0	$1,753	$0	$0	$0	$1,753
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*40*		*0*	*1258*	*0*	*0*	*0*	*1258*
	12 cy End Dump			4.00	ea	160	00E2010	$0	$5,032	$0	$0	$0	$5,032
00E2050		GEN	*U.C. per ea*			*40*		*0*	*1255.2*	*0*	*0*	*0*	*1255.2*
	4000 gal Water Truck			1.00	ea	40	00E2050	$0	$1,255	$0	$0	$0	$1,255
00E0912		GEN	*U.C. per ea*			*40*		*0*	*2634.8*	*0*	*0*	*0*	*2634.8*
	Cat 14 Grader			1.00	ea	40	00E0912	$0	$2,635	$0	$0	$0	$2,635
00E0630		GEN	*U.C. per ea*			*40*		*0*	*1058.8*	*0*	*0*	*0*	*1058.8*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	40	00E0630	$0	$1,059	$0	$0	$0	$1,059
CN-ENGR		GEN	*U.C. per ea*			*40*	*$39.39*	*1575.6*	*0*	*0*	*0*	*0*	*1575.6*
	OPERATING ENGINEER			3.00	ea	120	CN-ENGR	$4,727	$0	$0	$0	$0	$4,727
CN-TRHV		GEN	*U.C. per ea*			*40*	*$37.47*	*1498.8*	*0*	*0*	*0*	*0*	*1498.8*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*40*	*$35.21*	*1408.4*	*0*	*0*	*0*	*0*	*1408.4*
	LABORER			2.00	ea	80	CN-LABR	$2,817	$0	$0	$0	$0	$2,817
CN-SURV		GEN	*U.C. per ea*			*40*	*$37.19*	*1487.6*	*0*	*0*	*0*	*0*	*1487.6*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	80	CN-SURV	$2,975	$0	$0	$0	$0	$2,975
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	3.5' USCS Soil Type ML or CL Central Zone			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 3.5 = 620,256 CF/27 CF/CY = 22,972 CY. Import 3.5' (22,972 CY) material from Rye Grass Flats (10 miles one way). 22,972 CY/10 CY/Load = 2,297 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 2,297 Loads/7 Loads/Day/Truck = 328 Days/Truck. 328 Days/Truck/8 Trucks = 41 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*410*		*0*	*17970.3*	*0*	*0*	*0*	*17970.3*
	Cat 950 4 cy Loader			1.00	ea	410	00E0940	$0	$17,970	$0	$0	$0	$17,970
Memo:	Loader at material source.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E2010		GEN	*U.C. per ea*			*410*		*0*	*12894.5*	*0*	*0*	*0*	*12894.5*
	12 cy End Dump			8.00	ea	3,280	00E2010	$0	$103,156	$0	$0	$0	$103,156
00E2050		GEN	*U.C. per ea*			*410*		*0*	*12865.8*	*0*	*0*	*0*	*12865.8*
	4000 gal Water Truck			1.00	ea	410	00E2050	$0	$12,866	$0	$0	$0	$12,866
00E0912		GEN	*U.C. per ea*			*410*		*0*	*27006.7*	*0*	*0*	*0*	*27006.7*
	Cat 14 Grader			1.00	ea	410	00E0912	$0	$27,007	$0	$0	$0	$27,007
00E0630		GEN	*U.C. per ea*			*410*		*0*	*10852.7*	*0*	*0*	*0*	*10852.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	410	00E0630	$0	$10,853	$0	$0	$0	$10,853
CN-ENGR		GEN	*U.C. per ea*			*410*	*$39.39*	*16149.9*	*0*	*0*	*0*	*0*	*16149.9*
	OPERATING ENGINEER			3.00	ea	1,230	CN-ENGR	$48,450	$0	$0	$0	$0	$48,450
CN-TRHV		GEN	*U.C. per ea*			*410*	*$37.47*	*15362.7*	*0*	*0*	*0*	*0*	*15362.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			9.00	ea	3,690	CN-TRHV	$138,264	$0	$0	$0	$0	$138,264
CN-LABR		GEN	*U.C. per ea*			*410*	*$35.21*	*14436.1*	*0*	*0*	*0*	*0*	*14436.1*
	LABORER			2.00	ea	820	CN-LABR	$28,872	$0	$0	$0	$0	$28,872
CN-SURV		GEN	*U.C. per ea*			*410*	*$37.19*	*15247.9*	*0*	*0*	*0*	*0*	*15247.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	820	CN-SURV	$30,496	$0	$0	$0	$0	$30,496
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	6" Topsoil with Gravel Admix Central Zone			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3282 CY. Import 3/4 of 6" lift (2462 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.												
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	USCS Soil Type ML or CL			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*90*		*0*	*3944.7*	*0*	*0*	*0*	*3944.7*
	Cat 950 4 cy Loader			1.00	ea	90	00E0940	$0	$3,945	$0	$0	$0	$3,945
Memo:	Loader at material source.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*90* 360	00E2010	*0* $0	*2830.5* $11,322	*0* $0	*0* $0	*0* $0	*2830.5* $11,322
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E2050	*0* $0	*2824.2* $2,824	*0* $0	*0* $0	*0* $0	*2824.2* $2,824
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E0912	*0* $0	*5928.3* $5,928	*0* $0	*0* $0	*0* $0	*5928.3* $5,928
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E0630	*0* $0	*2382.3* $2,382	*0* $0	*0* $0	*0* $0	*2382.3* $2,382
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*90* 270	*$39.39* CN-ENGR	*3545.1* $10,635	*0* $0	*0* $0	*0* $0	*0* $0	*3545.1* $10,635
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*90* 450	*$37.47* CN-TRHV	*3372.3* $16,862	*0* $0	*0* $0	*0* $0	*0* $0	*3372.3* $16,862
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*90* 180	*$35.21* CN-LABR	*3168.9* $6,338	*0* $0	*0* $0	*0* $0	*0* $0	*3168.9* $6,338
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*90* 180	*$37.19* CN-SURV	*3347.1* $6,694	*0* $0	*0* $0	*0* $0	*0* $0	*3347.1* $6,694
	3/8" Pea Gravel	GEN	*U.C. per CY*	820.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $20,500	*0* $0	*25* $20,500
Memo:	1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 820 CY gravel from town, to borrow pile, 1/2 mile from job site. 820 CY/10 CY/Load = 82 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 82 Loads/24 Loads/Day/Truck = 4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*10* 40	00E2010	*0* $0	*314.5* $1,258	*0* $0	*0* $0	*0* $0	*314.5* $1,258
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*10* 50	*$37.47* CN-TRHV	*374.7* $1,874	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $1,874
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744
	Reseeding Central Zone Area Memo: 177,216 SF (per CWI Design Engr) = 4.07 Acres	GEN	*U.C. per ACRES*	4.07	ACRES	0		*0* $0	*0* $0	*0* $0	*3000* $12,210	*0* $0	*3000* $12,210
	Subtotal							$358,662	$245,189	$0	$1,312,561	$0	$1,916,412
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$104,120	$71,178	$0	$381,037	$0	$556,335
	Subtotal Estimate												**$2,472,747**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$92,556	$63,273	$0	$338,720	$0	$494,549
—Total	**Tank Farm ET Cover Central Zone (2035)**					**9,560**		**$555,338**	**$379,641**	**$0**	**$2,032,318**	**$0**	**$2,967,296**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2036)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*54.05*	*0*	*54.05*
	D&D Infiltration Barrier			484.00	CY	0		$0	$0	$0	$26,160	$0	$26,160
Memo:	Barrier is 39,181 S.F. Volume = 39,181 x 4/12 (thk) = 13,060 CF/27 CF/CY = 484 C.Y. Per RS Means Environmental Remediation Cost Data 2003 Edition, escalated to 2006 (9.06%), Demolition, Pavements, unit cost is $54.05/CY. Cost includes disposal.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Grading Fill-South Perimeter Area (FY 2035)			3,431.00	CY	0		$0	$0	$0	$137,240	$0	$137,240
Memo:	Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.												
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-South Perimeter Area*			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			1,004.00	CY	0		$0	$0	$0	$25,100	$0	$25,100
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*10*		*0*	*438.3*	*0*	*0*	*0*	*438.3*
	Cat 950 4 cy Loader			1.00	ea	10	00E0940	$0	$438	$0	$0	$0	$438
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*10*		*0*	*314.5*	*0*	*0*	*0*	*314.5*
	12 cy End Dump			4.00	ea	40	00E2010	$0	$1,258	$0	$0	$0	$1,258
00E2050		GEN	*U.C. per ea*			*10*		*0*	*313.8*	*0*	*0*	*0*	*313.8*
	4000 gal Water Truck			1.00	ea	10	00E2050	$0	$314	$0	$0	$0	$314
00E0912		GEN	*U.C. per ea*			*10*		*0*	*658.7*	*0*	*0*	*0*	*658.7*
	Cat 14 Grader			1.00	ea	10	00E0912	$0	$659	$0	$0	$0	$659
00E0630		GEN	*U.C. per ea*			*10*		*0*	*264.7*	*0*	*0*	*0*	*264.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	10	00E0630	$0	$265	$0	$0	$0	$265
CN-ENGR		GEN	*U.C. per ea*			*10*	*$39.39*	*393.9*	*0*	*0*	*0*	*0*	*393.9*
	OPERATING ENGINEER			3.00	ea	30	CN-ENGR	$1,182	$0	$0	$0	$0	$1,182
CN-TRHV		GEN	*U.C. per ea*			*10*	*$37.47*	*374.7*	*0*	*0*	*0*	*0*	*374.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	50	CN-TRHV	$1,874	$0	$0	$0	$0	$1,874

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR		GEN	*U.C. per ea*			*10*	*$35.21*	*352.1*	*0*	*0*	*0*	*0*	*352.1*
	LABORER			2.00	ea	20	CN-LABR	$704	$0	$0	$0	$0	$704
CN-SURV		GEN	*U.C. per ea*			*10*	*$37.19*	*371.9*	*0*	*0*	*0*	*0*	*371.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	20	CN-SURV	$744	$0	$0	$0	$0	$744
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"1'-0" Cobble Layer-South Perimeter Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 1.0 = 54,204 CF/27 CF/CY = 2,008 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Cobble Stone-South Perimeter Area			2,008.00	CY	0		$0	$0	$0	$80,320	$0	$80,320
Memo:	Cobble stone material cost delivered (local vendor quote). Deliver 2,008 CY cobble from town, to borrow pile, 1/2 mile from job site. 2,008 CY/10 CY/Load = 201 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 201 Loads/24 Loads/Day/Truck = 8 Days/Truck. 8 Days/Truck/4 Trucks = 2 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*20*		*0*	*876.6*	*0*	*0*	*0*	*876.6*
	Cat 950 4 cy Loader			1.00	ea	20	00E0940	$0	$877	$0	$0	$0	$877
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*20*		*0*	*629*	*0*	*0*	*0*	*629*
	12 cy End Dump			4.00	ea	80	00E2010	$0	$2,516	$0	$0	$0	$2,516
00E2050		GEN	*U.C. per ea*			*20*		*0*	*627.6*	*0*	*0*	*0*	*627.6*
	4000 gal Water Truck			1.00	ea	20	00E2050	$0	$628	$0	$0	$0	$628
00E0912		GEN	*U.C. per ea*			*20*		*0*	*1317.4*	*0*	*0*	*0*	*1317.4*
	Cat 14 Grader			1.00	ea	20	00E0912	$0	$1,317	$0	$0	$0	$1,317
00E0630		GEN	*U.C. per ea*			*20*		*0*	*529.4*	*0*	*0*	*0*	*529.4*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	20	00E0630	$0	$529	$0	$0	$0	$529
CN-ENGR		GEN	*U.C. per ea*			*20*	*$39.39*	*787.8*	*0*	*0*	*0*	*0*	*787.8*
	OPERATING ENGINEER			3.00	ea	60	CN-ENGR	$2,363	$0	$0	$0	$0	$2,363
CN-TRHV		GEN	*U.C. per ea*			*20*	*$37.47*	*749.4*	*0*	*0*	*0*	*0*	*749.4*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	100	CN-TRHV	$3,747	$0	$0	$0	$0	$3,747

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*20* 40	*$35.21* CN-LABR	*704.2* $1,408	*0* $0	*0* $0	*0* $0	*0* $0	*704.2* $1,408
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*20* 40	*$37.19* CN-SURV	*743.8* $1,488	*0* $0	*0* $0	*0* $0	*0* $0	*743.8* $1,488
	"6" Gravel Layer-South Perimeter Area*	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo: Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.													
	Pea Gravel	GEN	*U.C. per CY*	1,004.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $25,100	*0* $0	*25* $25,100
Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.													
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo: Loader at material source.													
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*10* 40	00E2010	*0* $0	*314.5* $1,258	*0* $0	*0* $0	*0* $0	*314.5* $1,258
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*10* 50	*$37.47* CN-TRHV	*374.7* $1,874	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $1,874

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744
	3.5' USCS Soil Type ML or CL South Perimeter Area	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 3.5 = 189,714 CF/27 CF/CY = 7,026 CY. Import 3.5' (7,026 CY) material from Rye Grass Flats (10 miles one way). 7,026 CY/10 CY/Load = 703 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 703 Loads/7 Loads/Day/Truck = 100 Days/Truck. 100 Days/Truck/8 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0940	*0* $0	*5697.9* $5,698	*0* $0	*0* $0	*0* $0	*5697.9* $5,698
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	8.00	ea	*130* 1,040	00E2010	*0* $0	*4088.5* $32,708	*0* $0	*0* $0	*0* $0	*4088.5* $32,708
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E2050	*0* $0	*4079.4* $4,079	*0* $0	*0* $0	*0* $0	*4079.4* $4,079
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0912	*0* $0	*8563.1* $8,563	*0* $0	*0* $0	*0* $0	*8563.1* $8,563
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0630	*0* $0	*3441.1* $3,441	*0* $0	*0* $0	*0* $0	*3441.1* $3,441
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*130* 390	*$39.39* CN-ENGR	*5120.7* $15,362	*0* $0	*0* $0	*0* $0	*0* $0	*5120.7* $15,362
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	9.00	ea	*130* 1,170	*$37.47* CN-TRHV	*4871.1* $43,840	*0* $0	*0* $0	*0* $0	*0* $0	*4871.1* $43,840
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$35.21* CN-LABR	*4577.3* $9,155	*0* $0	*0* $0	*0* $0	*0* $0	*4577.3* $9,155

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$37.19* CN-SURV	*4834.7* $9,669	*0* $0	*0* $0	*0* $0	*0* $0	*4834.7* $9,669
	"6" Topsoil with Gravel Admix South Perimeter Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1,004 CY. Import 3/4 of 6" lift (750 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
	"USCS Soil Type ML or CL"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0940	*0* $0	*1314.9* $1,315	*0* $0	*0* $0	*0* $0	*1314.9* $1,315
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*30* 120	00E2010	*0* $0	*943.5* $3,774	*0* $0	*0* $0	*0* $0	*943.5* $3,774
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E2050	*0* $0	*941.4* $941	*0* $0	*0* $0	*0* $0	*941.4* $941
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0912	*0* $0	*1976.1* $1,976	*0* $0	*0* $0	*0* $0	*1976.1* $1,976
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0630	*0* $0	*794.1* $794	*0* $0	*0* $0	*0* $0	*794.1* $794
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*30* 90	*$39.39* CN-ENGR	*1181.7* $3,545	*0* $0	*0* $0	*0* $0	*0* $0	*1181.7* $3,545
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*30* 150	*$37.47* CN-TRHV	*1124.1* $5,621	*0* $0	*0* $0	*0* $0	*0* $0	*1124.1* $5,621
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$35.21* CN-LABR	*1056.3* $2,113	*0* $0	*0* $0	*0* $0	*0* $0	*1056.3* $2,113

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$37.19* CN-SURV	*1115.7* $2,231	*0* $0	*0* $0	*0* $0	*0* $0	*1115.7* $2,231
	3/8" Pea Gravel	GEN	*U.C. per CY*	250.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $6,250	*0* $0	*25* $6,250
Memo:	1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 250 CY gravel from town, to borrow pile, 1/2 mile from job site. 250 CY/10 CY/Load = 25 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 25 Loads/24 Loads/Day/Truck = 1 Day/Truck. = 1 Day. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	 00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	1.00	ea	*10* 10	 00E2010	*0* $0	*314.5* $315	*0* $0	*0* $0	*0* $0	*314.5* $315
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	 00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	 00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	 00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.47* CN-TRHV	*374.7* $749	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $749
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)												
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***											
	GEN	*U.C. per ACRES*					*0*	*0*	*0*	*3000*	*0*	*3000*
	Reseeding South Perimeter Area		1.25	ACRES	0		$0	$0	$0	$3,750	$0	$3,750
Memo: 54,204 SF (per CWI Design Engr) = 1.25 Acres												
	Subtotal						$112,928	$77,014	$0	$303,920	$0	$493,862
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$32,783	$22,357	$0	$88,228	$0	$143,368
	Subtotal Estimate											**$637,230**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$29,142	$19,874	$0	$78,430	$0	$127,446
—Total	**Tank Farm ET Cover South Perimeter Area (2035)**				**3,010**		**$174,852**	**$119,245**	**$0**	**$470,578**	**$0**	**$764,676**
Project Management (Capital)												
	CWI	*U.C. per $$*					*0.05*	*0*	*0*	*0*	*0*	*0.05*
	PM cost estimated at 5% of construction		31,425,223.00	$$	0		$1,571,261	$0	$0	$0	$0	$1,571,261
	Subtotal						$1,571,261	$0	$0	$0	$0	$1,571,261
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$1,571,261**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Project Management (Capital)**				**0**		**$1,571,261**	**$0**	**$0**	**$0**	**$0**	**$1,571,261**
Remedial Design/Remedial Action Work Plan												
	CWI	*U.C. per $$*					*0.08*	*0*	*0*	*0*	*0*	*0.08*
	RA Work Plan cost estimated at 8% of construction		31,425,223.00	$$	0		$2,514,018	$0	$0	$0	$0	$2,514,018
Memo: Estimate assumes equipment design will be done by equipment manufacturers, for the track-hoe.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Remedial Design/Remedial Action Work Plan												
	Subtotal						$2,514,018	$0	$0	$0	$0	$2,514,018
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$2,514,018**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Remedial Design/Remedial Action Work Plan**				**0**		**$2,514,018**	**$0**	**$0**	**$0**	**$0**	**$2,514,018**
Construction Management (Capital)												
	CWI	*U.C. per $$*					*0.06*	*0*	*0*	*0*	*0*	*0.06*
	CM cost estimated at 6% of construction		31,425,223.00	$$	0		$1,885,513	$0	$0	$0	$0	$1,885,513
	Subtotal						$1,885,513	$0	$0	$0	$0	$1,885,513
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$1,885,513**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Construction Management (Capital)**				**0**		**$1,885,513**	**$0**	**$0**	**$0**	**$0**	**$1,885,513**
Extraction, Containment, or Treatment Systems												
	CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*75000*	*75000*
	Surface Water Controls		1.00	LS	0		$0	$0	$0	$0	$75,000	$75,000

Memo: ***Costs for tank farm drainage maintenance, lift station pump tests, drainage inspections, annual O&M data collection, reports, and transmittal of reports to agencies. For basis, see estimate file # 2966-K. (Total cost per year is $526,000/7 yrs (FY06-12)) = $75,000 annual cost.***

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Extraction, Containment, or Treatment Systems												
Memo:	***Costs for tank farm drainage maintenance, lift station pump tests, drainage inspections, annual O&M data collection, reports, and transmittal of reports to agencies. For basis, see estimate file # 2966-K. (Total cost per year is $526,000/7 yrs (FY06-12)) = $75,000 annual cost.***											
Subtotal							$0	$0	$0	$0	$75,000	$75,000
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$75,000**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$0	$0	$0	$0	$11,250	$11,250
---Total	**Extraction, Containment, or Treatment Systems**				**0**		**$0**	**$0**	**$0**	**$0**	**$86,250**	**$86,250**
Project Management (O&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. 10 hrs/month. Based on current/proposed crew makeup and determined duration periods.***											
E28		CWI	*U.C. per hrs*		*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882
Subtotal							$8,882	$0	$0	$0	$0	$8,882
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$8,882**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$1,332	$0	$0	$0	$0	$1,332
---Total	**Project Management (O&M) (Annual)**				**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**
Project Management (S&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***											
E28		CWI	*U.C. per months*		*10*	*$74.02*	*740.2*	*0*	*0*	*0*	*0*	*740.2*
PROJECT MANAGEMENT			12.00	months	120	E28	$8,882	$0	$0	$0	$0	$8,882

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (S&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***											
	Subtotal						$8,882	$0	$0	$0	$0	$8,882
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$8,882**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$1,332	$0	$0	$0	$0	$1,332
---Total	**Project Management (S&M) (Annual)**				**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)												
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***											
		CWI	*U.C. per ea*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Soil Monitoring		1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	A No Longer Contained In Determination will be approved for all INTEC groundwater and perched water. The tank farm tanks will be clean closed. The RI/BRA showed that there was no risk from the RCRA constituents in the soil. Therefore a RCRA cap, post closure permit, or RCRA groundwater monitoring program will not be required.											
X12		CWI	*U.C. per ea*		*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION		1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896
U-60		CWI	*U.C. per ea*		*40*	*$40.07*	*1602.8*	*0*	*0*	*0*	*0*	*1602.8*
	RADIOLOGICAL CONTROL TECH		1.00	ea	40	U-60	$1,603	$0	$0	$0	$0	$1,603
		CWI	*U.C. per ea*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Groundwater Monitoring		1.00	ea	0		$0	$0	$0	$0	$0	$0
		CWI	*U.C. per ea*				*30260*	*0*	*1453*	*0*	*0*	*31713*
	Annual Well Monitoring, Including Report		1.00	ea	0		$30,260	$0	$1,453	$0	$0	$31,713
Memo:	Based on Group 5 DWP estimate file # 8530-DWP2-11B, escalated to 2006.											
		CWI	*U.C. per LS*	NM60	*40*	*$53.67*	*2146.8*	*0*	*1463*	*0*	*0*	*3609.8*
	Prepare TOS, Work Planning & Mobilization		1.00	LS	40	S15	$2,147	$0	$1,463	$0	$0	$3,610
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100045.											

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)												
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	"Collect samples"		1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.											
S15		CWI	*U.C. per ea*		*12*	*$53.67*	*644.04*	*0*	*0*	*0*	*0*	*644.04*
	ANALYTICAL CHEMISTRY		1.00	ea	12	S15	$644	$0	$0	$0	$0	$644
T10		CWI	*U.C. per ea*		*8*	*$37.03*	*296.24*	*0*	*0*	*0*	*0*	*296.24*
	LABORATORY TECH		1.00	ea	8	T10	$296	$0	$0	$0	$0	$296
T15		CWI	*U.C. per ea*		*200*	*$29.84*	*5968*	*0*	*0*	*0*	*0*	*5968*
	ENVIRON/FIELD TECH		1.00	ea	200	T15	$5,968	$0	$0	$0	$0	$5,968
U16		CWI	*U.C. per ea*		*3*	*$36.61*	*109.83*	*0*	*0*	*0*	*0*	*109.83*
	FITTER		1.00	ea	3	U16	$110	$0	$0	$0	$0	$110
U76		CWI	*U.C. per ea*		*30*	*$33.36*	*1000.8*	*0*	*0*	*0*	*0*	*1000.8*
	CONSTRUCTION IRON WORKER (FORCE ACCT)		1.00	ea	30	U76	$1,001	$0	$0	$0	$0	$1,001
U84		CWI	*U.C. per ea*		*66*	*$31.36*	*2069.76*	*0*	*0*	*0*	*0*	*2069.76*
	CONSTRUCTION LABORER (FORCE ACCT)		1.00	ea	66	U84	$2,070	$0	$0	$0	$0	$2,070
X12		CWI	*U.C. per ea*		*26*	*$47.41*	*1232.66*	*0*	*0*	*0*	*0*	*1232.66*
	ENVIRONMENTAL RESTORATION		1.00	ea	26	X12	$1,233	$0	$0	$0	$0	$1,233
		CWI	*U.C. per LS*	NM80			*0*	*0*	*0*	*72274*	*0*	*72274*
	Sample Analysis		1.00	LS	0		$0	$0	$0	$72,274	$0	$72,274
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100047.											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	"Data Validation & L&V Report"		1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.											
A02		CWI	*U.C. per ea*		*40*	*$19.98*	*799.2*	*0*	*0*	*0*	*0*	*799.2*
	DATA ENTRY		1.00	ea	40	A02	$799	$0	$0	$0	$0	$799

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)													
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***												
NRPR		CWI	*U.C. per hrs*		NRPR			*0*	*0*	*38.38*	*0*	*0*	*38.38*
	RECORDS MANAGEMENT			9.00	hrs	0		$0	$0	$345	$0	$0	$345
A25		CWI	*U.C. per ea*			*3*	*$25.58*	*76.74*	*0*	*0*	*0*	*0*	*76.74*
	OFFICE ADMINISTRATION/COORDINATION			1.00	ea	3	A25	$77	$0	$0	$0	$0	$77
S15		CWI	*U.C. per ea*			*35*	*$53.67*	*1878.45*	*0*	*0*	*0*	*0*	*1878.45*
	ANALYTICAL CHEMISTRY			1.00	ea	35	S15	$1,878	$0	$0	$0	$0	$1,878
S16		CWI	*U.C. per ea*			*34*	*$65.07*	*2212.38*	*0*	*0*	*0*	*0*	*2212.38*
	CHEMICAL SCIENCES			1.00	ea	34	S16	$2,212	$0	$0	$0	$0	$2,212
	Subtotal							$52,194	$0	$3,261	$72,274	$0	$127,730
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$127,730**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$7,829	$0	$489	$10,841	$0	$19,159
—Total	**Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)**					**577**		**$60,023**	**$0**	**$3,751**	**$83,115**	**$0**	**$146,889**
Site Information Database (CFLUP) (Annual)													
Memo:	***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***												
X12		CWI	*U.C. per ea*			*50*	*$47.41*	*2370.5*	*0*	*0*	*0*	*0*	*2370.5*
	ENVIRONMENTAL RESTORATION			1.00	ea	50	X12	$2,371	$0	$0	$0	$0	$2,371
NRPG		CWI	*U.C. per hrs*		NRPG			*0*	*0*	*58.69*	*0*	*0*	*58.69*
	WRITER/EDITOR			2.00	hrs	0		$0	$0	$117	$0	$0	$117

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Information Database (CFLUP) (Annual)												
Memo:	***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***											
S05		CWI	*U.C. per ea*		*8*	*$60.57*	*484.56*	*0*	*0*	*0*	*0*	*484.56*
GEOLOGY			1.00	ea	8	S05	$485	$0	$0	$0	$0	$485
Subtotal							$2,855	$0	$117	$0	$0	$2,972
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,972**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$428	$0	$18	$0	$0	$446
---Total Site Information Database (CFLUP) (Annual)					**58**		**$3,283**	**$0**	**$135**	**$0**	**$0**	**$3,418**
Annual Institutional Control Inspection												
Memo:	***Annual Inspection (Assessment). See WBS No. P.4.C1.03.02, ID # ERM3200010.***											
X12		CWI	*U.C. per ea*		*8*	*$47.41*	*379.28*	*0*	*0*	*0*	*0*	*379.28*
ENVIRONMENTAL RESTORATION			1.00	ea	8	X12	$379	$0	$0	$0	$0	$379
Memo: For assessment												
S05		CWI	*U.C. per ea*		*32*	*$60.57*	*1938.24*	*0*	*0*	*0*	*0*	*1938.24*
GEOLOGY			1.00	ea	32	S05	$1,938	$0	$0	$0	$0	$1,938
Memo: For assessment												
Subtotal							$2,318	$0	$0	$0	$0	$2,318
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,318**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$348	$0	$0	$0	$0	$348
---Total Annual Institutional Control Inspection					**40**		**$2,665**	**$0**	**$0**	**$0**	**$0**	**$2,665**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (IC) (Annual)													
Memo:	***Responsible for maneging baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***												
E28		CWI	*U.C. per hrs*			*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
	PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882
	Subtotal							$8,882	$0	$0	$0	$0	$8,882
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$8,882**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$1,332	$0	$0	$0	$0	$1,332
—Total	**Project Management (IC) (Annual)**					**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**
Remedy Failure or Replacement (Annual)													
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***												
U21		CWI	*U.C. per ea*			*40*	*$21.47*	*858.8*	*0*	*0*	*0*	*0*	*858.8*
	LABORER			1.00	ea	40	U21	$859	$0	$0	$0	$0	$859
X12		CWI	*U.C. per ea*			*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION			1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Remedy Failure or Replacement (Annual)												
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***											
NM80		CWI	*U.C. per Lot*	NM80			*0*	*0*	*0*	*800*	*0*	*800*
	OTHER - SERVICES			1.00	Lot	0	$0	$0	$0	$800	$0	$800
	Subtotal						$2,755	$0	$0	$800	$0	$3,555
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads		0.00%				$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$3,555**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$413	$0	$0	$120	$0	$533
---Total	**Remedy Failure or Replacement (Annual)**				**80**		**$3,168**	**$0**	**$0**	**$920**	**$0**	**$4,088**
Infiltration Barrier Maintenance												
			U.C. per $				*0*	*0*	*0*	*0.03*	*0*	*0.03*
	Annual Maintenance of Barrier @ 3% of Construction Costs		3,544,897.06	$	0		$0	$0	$0	$106,347	$0	$106,347
	Memo: Total replacement of barrier in approximately 30 years.											
	Subtotal						$0	$0	$0	$106,347	$0	$106,347
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads		0.00%				$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$106,347**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$15,952	$0	$15,952
---Total	**Infiltration Barrier Maintenance**				**0**		**$0**	**$0**	**$0**	**$122,299**	**$0**	**$122,299**
Five Year Reviews												
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Assemble Data			1.00	LS	0	$0	$0	$0	$0	$0	$0

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews													
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***												
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*84* 84	*$72.73* Z09	*6109.32* $6,109	*0* $0	*0* $0	*0* $0	*0* $0	*6109.32* $6,109
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS*	1.00	NM60 LS	0		*0* $0	*0* $0	*2398* $2,398	*0* $0	*0* $0	*2398* $2,398
	Prepare Draft	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
NRPF	ELECTRONIC PUBLICATIONS	CWI	*U.C. per hrs*	5.00	NRPF hrs	0		*0* $0	*0* $0	*36.17* $181	*0* $0	*0* $0	*36.17* $181
NRPG	WRITER/EDITOR	CWI	*U.C. per hrs*	28.00	NRPG hrs	0		*0* $0	*0* $0	*58.69* $1,643	*0* $0	*0* $0	*58.69* $1,643
T08	ILLUSTRATOR/ARTIST	CWI	*U.C. per ea*	1.00	ea	*4* 4	*$36.51* T08	*146.04* $146	*0* $0	*0* $0	*0* $0	*0* $0	*146.04* $146
X12	ENVIRONMENTAL RESTORATION	CWI	*U.C. per ea*	1.00	ea	*315* 315	*$47.41* X12	*14934.15* $14,934	*0* $0	*0* $0	*0* $0	*0* $0	*14934.15* $14,934
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*73* 73	*$72.73* Z09	*5309.29* $5,309	*0* $0	*0* $0	*0* $0	*0* $0	*5309.29* $5,309
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS*	1.00	NM60 LS	0		*0* $0	*0* $0	*8747* $8,747	*0* $0	*0* $0	*8747* $8,747
NM80	OTHER - SERVICES	CWI	*U.C. per LS*	1.00	NM80 LS	0		*0* $0	*0* $0	*0* $0	*155* $155	*0* $0	*155* $155
	Establish Team	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*54* 54	*$72.73* Z09	*3927.42* $3,927	*0* $0	*0* $0	*0* $0	*0* $0	*3927.42* $3,927

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews												
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***											
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS* 1.00	NM60 LS	0		*0* $0	*0* $0	*1527* $1,527	*0* $0	*0* $0	*1527* $1,527
Subtotal							$30,426	$0	$14,496	$155	$0	$45,077
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$45,077**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$4,564	$0	$2,174	$23	$0	$6,762
—Total Five Year Reviews					**530**		**$34,990**	**$0**	**$16,671**	**$178**	**$0**	**$51,839**

Update Institutional Controls Plan (Annual)

Memo: ***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***

X12	ENVIRONMENTAL RESTORATION	CWI	*U.C. per ea* 1.00	ea	*260* 260	*$47.41* X12	*12326.6* $12,327	*0* $0	*0* $0	*0* $0	*0* $0	*12326.6* $12,327
Memo: For prep, tech edit, doc control.												
NRPG	WRITER/EDITOR	CWI	*U.C. per hrs* 60.00	NRPG hrs	0		*0* $0	*0* $0	*58.69* $3,521	*0* $0	*0* $0	*58.69* $3,521
Memo: For tech edit												
NRPR	RECORDS MANAGEMENT	CWI	*U.C. per hrs* 18.00	NRPR hrs	0		*0* $0	*0* $0	*38.38* $691	*0* $0	*0* $0	*38.38* $691
Memo: For prep doc control.												
S05	GEOLOGY	CWI	*U.C. per ea* 1.00	ea	*14* 14	*$60.57* S05	*847.98* $848	*0* $0	*0* $0	*0* $0	*0* $0	*847.98* $848
Memo: ORB review												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 3b: Institutional Controls, Monitoring, Source Removal
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-3b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Update Institutional Controls Plan (Annual)												
Memo:	***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***											
X12	CWI	*U.C. per ea*			22	*$47.41*	*1043.02*	*0*	*0*	*0*	*0*	*1043.02*
	ENVIRONMENTAL RESTORATION		1.00	ea	22	X12	$1,043	$0	$0	$0	$0	$1,043
Memo:	Incorporate ORB, agency comments.											
	Subtotal						$14,218	$0	$4,212	$0	$0	$18,430
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$18,430**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$2,133	$0	$632	$0	$0	$2,764
---Total	**Update Institutional Controls Plan (Annual)**				**296**		**$16,360**	**$0**	**$4,844**	**$0**	**$0**	**$21,194**

Subtotal	OU 3-14 FS ALTERNATIVE 3b: INST CTRLS, MONITORING,	$14,155,096	$688,589	$10,971,012	$10,417,641	$115,000	$36,347,338
Sales Tax	SOURCE REMOVAL & CONTAINMENT	$0	$0	$0	$0	$0	$0
Overheads		$215,748	$147,532	$0	$1,093,474	$0	$1,456,753
Subtotal Estimate		$0	$0	$0	$0	$0	$37,804,091
Escalation		$5,786,272	$389,209	$8,215,007	$5,778,248	$27,022	$0
Contingency							$20,195,757
Total OU 3-14 FS ALTERNATIVE 3b: INST CTRLS, MONITORING, SOURCE REMOVAL & CONTAINMENT	210,141	$20,157,115	$1,225,330	$19,186,019	$17,289,362	$142,022	$57,999,848

Material Costs where applicable include Idaho State Sales Tax

Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Project Number: ***2966-M-4a***

ESTIMATE ELEMENT	Estimate Subtotal	Escalation	Contingency	TOTAL
		0.00%	*28.75%*	
Total Estimated Cost (TEC)	**$13,356,070**	**$0**	**$3,840,309**	**$17,196,378**
		0.00%	*28.75%*	
Total Cost	**$13,356,070**	**$0**	**$3,840,309**	**$17,196,378**
Rounded Total Cost (Rounded to the nearest $ 10000)				**$17,200,000**

		Remarks
Type of Estimate:	Project Support	E/T Cap Over Soils in the Central Area in 2012
Estimator:	J. Folker, 6-0322	E/T Cap Over Soils in the South Perimeter Area in 2035
Checked By:		In-Situ Grouting in CPP-31 in 2012
Approved By:		

Project Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		Capital Costs	$12,947,994	$0	$3,779,097	29.19%	$16,727,091
		–Construction Activities	**$10,880,667**	**$0**	**$3,779,097**	**34.73%**	**$14,659,764**
		----Mobilization/Demobilization	**$522,116**	**$0**	**$205,870**	**39.43%**	**$727,986**
		------Construction Equipment	$40,000	$0	$15,772	39.43%	$55,772
		------Submittals/Implementation Plans	$482,116	$0	$190,098	39.43%	$672,214
		------Operational Plans	$149,660	$0	$59,011	39.43%	$208,671
		------Develop MSA Plan	$41,228	$0	$16,256	39.43%	$57,484
		------Develop ORR POA & Imp. Plan	$41,228	$0	$16,256	39.43%	$57,484
		------Final Inspection Report	$250,000	$0	$98,575	39.43%	$348,575
		------Site Security Personnel	$0	$0	$0	40.00%	$0
		---Monitoring, Sampling, Testing, and Analysis (Capital)	**$0**	**$0**	**$0**	**0.00%**	**$0**
		----Remediation	**$6,851,437**	**$0**	**$1,819,670**	**26.56%**	**$8,671,107**
		------Surface Water Collection or Containment	$324,639	$0	$113,624	35.00%	$438,263
		------Drainage Ditches & Culverts	$324,639	$0	$113,624	35.00%	$438,263
		------Retaining Walls	$593,538	$0	$207,738	35.00%	$801,276
		------CPP-659 Retaining Wall	$477,411	$0	$167,094	35.00%	$644,505
		------Valve Box Extensions	$116,127	$0	$40,644	35.00%	$156,771
		------Soil Excavation/Clean Backfill	$313,766	$0	$203,948	65.00%	$517,714
		------North Perimeter Area Excavate/Backfill/Dispose (2012)	$313,766	$0	$203,948	65.00%	$517,714
		------Demolition and Removal	$1,136,407	$0	$397,742	35.00%	$1,534,149
		------D&D CPP-654 (2012)	$700,525	$0	$245,184	35.00%	$945,709
		------D&D CPP-699 (2012)	$435,882	$0	$152,559	35.00%	$588,441
		------Cap or Cover	$4,483,086	$0	$896,617	20.00%	$5,379,703
		------Infiltration Barrier 2012)	$1,459,458	$0	$291,892	20.00%	$1,751,350
		------Infiltration Barrier (2035)	$99,998	$0	$20,000	20.00%	$119,998

Project Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		-------Tank Farm ET Cover Central Zone (2012)	$2,320,154	$0	$464,031	20.00%	$2,784,185
		-------Tank Farm ET Cover South Perimeter Area (2035)	$603,475	$0	$120,695	20.00%	$724,170
		----Treatment and Disposal	**$3,507,114**	**$0**	**$1,753,557**	**50.00%**	**$5,260,671**
		-----On-Site Treatment (2012)	$3,507,114	$0	$1,753,557	50.00%	$5,260,671
		-------CPP-31 In-Situ Grouting (2012)	$3,507,114	$0	$1,753,557	50.00%	$5,260,671
		---------Subcontractor Grouting Operations	$3,507,114	$0	$1,753,557	50.00%	$5,260,671
		----------Mobilization and Subcontractor Preparations	$300,000	$0	$150,000	50.00%	$450,000
		----------Subcontractor Equipment Procurement	$540,000	$0	$270,000	50.00%	$810,000
		----------Grout Procurement and Delivery	$1,256,112	$0	$628,056	50.00%	$1,884,169
		----------Move Thrust Block Assembly	$162,479	$0	$81,240	50.00%	$243,719
		----------Grout Injection	$152,974	$0	$76,487	50.00%	$229,460
		----------Maintenance	$270,296	$0	$135,148	50.00%	$405,443
		----------Shut-Down/Demobilization	$15,612	$0	$7,806	50.00%	$23,418
		----------General Subcontract Costs	$110,386	$0	$55,193	50.00%	$165,578
		----------Disposal	$699,256	$0	$349,628	50.00%	$1,048,883
		--Professional/Technical Services (Capital)	**$2,067,327**	**$0**	**$0**	**0.00%**	**$2,067,327**
		---Project Management (Capital)	**$544,033**	**$0**	**$0**	**0.00%**	**$544,033**
		---Remedial Design/Remedial Action Work Plan	**$870,453**	**$0**	**$0**	**0.00%**	**$870,453**
		----Construction Management (Capital)	**$652,840**	**$0**	**$0**	**0.00%**	**$652,840**
		Operational and Maintenance (O&M) Costs	**$234,667**	**$0**	**$35,200**	**15.00%**	**$269,867**
		--O&M Activities	**$83,882**	**$0**	**$12,582**	**15.00%**	**$96,465**
		----Extraction, Containment, or Treatment Systems	**$75,000**	**$0**	**$11,250**	**15.00%**	**$86,250**
		----Project Management (O&M) (Annual)	**$8,882**	**$0**	**$1,332**	**15.00%**	**$10,215**
		--Surveillance and Monitoring (S&M)	**$136,612**	**$0**	**$20,492**	**15.00%**	**$157,104**

Project Summary Report

Project Name: *WAG 3*
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: *INTEC Tank Farm*
Estimate Number: *2966-M-4a*

Client: *L. Cahn, 6-3080*
Prepared By: *J. Folker, 6-0322*
Estimate Type: *Project Support*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		----Project Management (S&M) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		----Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)	$127,730	$0	$19,159	15.00%	$146,889
		--Institutional Controls (IC)	$14,172	$0	$2,126	15.00%	$16,298
		----Site Information Database (CFLUP) (Annual)	$2,972	$0	$446	15.00%	$3,418
		---Annual Institutional Control Inspection	$2,318	$0	$348	15.00%	$2,665
		---Project Management (IC) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		Periodic Costs	$173,409	$0	$26,011	15.00%	$199,421
		--Construction/O&M Activities (Periodic)	$109,902	$0	$16,485	15.00%	$126,387
		---Remedy Failure or Replacement (Annual)	$3,555	$0	$533	15.00%	$4,088
		---Infiltration Barrier Maintenance	$106,347	$0	$15,952	15.00%	$122,299
		--Professional/Technical Services (Periodic)	$45,077	$0	$6,762	15.00%	$51,839
		---Five Year Reviews	$45,077	$0	$6,762	15.00%	$51,839
		--Update Institutional Controls Plan (Annual)	$18,430	$0	$2,764	15.00%	$21,194
Total	OU 3-14 FS ALTERNATIVE 4a: INST CTRLS, MONITORING, SOURCE TREAT. & CONTAINMENT		$13,356,070	$0	$3,840,309	28.75%	$17,196,378

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Construction Equipment													
Memo:	***Assume 20 pieces of equipment at $1,000 each.***												
		GEN	*U.C. per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Mobilize Equipment for Cap			1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.												
		GEN	*U.C per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Demobilize Equipment for Cap			1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.												
	Subtotal							$0	$0	$0	$0	$40,000	$40,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$40,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$15,772	$15,772
---Total	**Construction Equipment**					**0**		**$0**	**$0**	**$0**	**$0**	**$55,772**	**$55,772**
Operational Plans													
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*37573*	*0*	*37573*
	Operational & Layout plan (cost per year)			1.00	YR	0		$0	$0	$0	$37,573	$0	$37,573
Memo:	The operation and layout plan will be a annually produced external document that will be used as a basis for budget. This document will be reviewed through the ORB process prior to state, EPA, and DOE review. (cost from previous ISG estimate)												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*6530*	*0*	*6530*
	Rad monitoring & control plan (cost per year)			1.00	YR	0		$0	$0	$0	$6,530	$0	$6,530
Memo:	The radiation monitoring and control plan will be a annually produced document that will utelize pre-existing Rad Con procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)												
		CWI	*U.C. per YR*					*0*	*0*	*0*	*5557*	*0*	*5557*
	HI exposure & sample plan (cost per year)			1.00	YR	0		$0	$0	$0	$5,557	$0	$5,557
Memo:	The industrial hygene exposure and sampling plan will be a annually produced document that will utilize pre-existing IH procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Operational Plans													
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***												
Training Plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*50000* $50,000	*0* $0	*50000* $50,000
Quality Control Plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*50000* $50,000	*0* $0	*50000* $50,000
Subtotal								$0	$0	$0	$149,660	$0	$149,660
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$149,660**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$0	$0	$0	$59,011	$0	$59,011
—Total Operational Plans						**0**		**$0**	**$0**	**$0**	**$208,671**	**$0**	**$208,671**
Develop MSA Plan													
Memo:	***The MSA plan will be a annually produced document. The cost associated with this plan includes generation of the plan, project review of the plan, document finilization, and generation of a checklist. (cost from previous ISG estimate).***												
MSA plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*41228* $41,228	*0* $0	*41228* $41,228
Subtotal								$0	$0	$0	$41,228	$0	$41,228
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$41,228**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$0	$0	$0	$16,256	$0	$16,256
—Total Develop MSA Plan						**0**		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Develop ORR POA & Imp. Plan												
Memo:	***The ORR Plan Of Action (POA) and the implementation plan's combined cost is assumed to equal the the MSA plan cost.***											
	ORR POA & imp plan	CWI	1.00	LS	0	*U.C. per LS*	*0* $0	*0* $0	*0* $0	*41228* $41,228	*0* $0	*41228* $41,228
	Subtotal						$0	$0	$0	$41,228	$0	$41,228
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$41,228**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$16,256	$0	$16,256
—Total	**Develop ORR POA & Imp. Plan**				**0**		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**
Final Inspection Report												
Memo:	***Cost allowance is based on the PERA for WAG 7 SDA (INEEL/EXT-02-01258) Rev-0.***											
	FINAL INSPECTION REPORT	CWI	1.00	LS	0	*U.C. per LS*	*250000* $250,000	*0* $0	*0* $0	*0* $0	*0* $0	*250000* $250,000
	Subtotal						$250,000	$0	$0	$0	$0	$250,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$250,000**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$98,575	$0	$0	$0	$0	$98,575
—Total	**Final Inspection Report**				**0**		**$348,575**	**$0**	**$0**	**$0**	**$0**	**$348,575**
Site Security Personnel												
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***											
	Security Support @ Site Access Gate	CWI	1.00	YR	0	*U.C. per YR*	*0.01* $0	*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2956-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Security Personnel												
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***											
	Subtotal						$0	$0	$0	$0	$0	$0
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$0**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Site Security Personnel**				0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Monitoring, Sampling, Testing, and Analysis (Capital)												
		U.C. per LS					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Monitoring, Sampling, Testing and Analysis		1.00	LS	0		$0	$0	$0	$0	$0	$0
	Memo: Analytical laboratory capital equipment costs will be paid for by RAL											
	Subtotal						$0	$0	$0	$0	$0	$0
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$0**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Monitoring, Sampling, Testing, and Analysis (Capital)**				0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Drainage Ditches & Culverts												
		GEN *U.C. per LF*					*0*	*0*	*0*	*69.4*	*0*	*69.4*
	Drainage Ditches		3,000.00	LF	0		$0	$0	$0	$208,200	$0	$208,200
	Memo: Per estimate file # 2956-E, 236 CY concrete/1700 LF = 0.1388 CY/LF x $500/LF = $69.40/LF.											

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Drainage Ditches & Culverts												
		GEN	*U.C. per LF*				*0*	*0*	*0*	*43.4*	*0*	*43.4*
	Culverts		1,000.00	LF	0		$0	$0	$0	$43,400	$0	$43,400
Memo: Per estimate file # 2956-E (FY-2000), 30" CMP @ $40/LF installed directs. Escalated 9.06% = $43.40 directs												
	Subtotal						$0	$0	$0	$251,600	$0	$251,600
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$73,039	$0	$73,039
	Subtotal Estimate											**$324,639**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$113,624	$0	$113,624
—Total	**Drainage Ditches & Culverts**				**0**		**$0**	**$0**	**$0**	**$438,263**	**$0**	**$438,263**
CPP-659 Retaining Wall												
		GEN	*U.C. per*				*0*	*0*	*0*	*1000*	*0*	*1000*
	20 ft High Reatining Wall Around North & West Sides of CPP-659		370.00		0		$0	$0	$0	$370,000	$0	$370,000
Memo: Assume 20' high x 500' x 1' ft thick = 370 CY @ $1000/CY directs												
	Subtotal						$0	$0	$0	$370,000	$0	$370,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$107,411	$0	$107,411
	Subtotal Estimate											**$477,411**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$167,094	$0	$167,094
—Total	**CPP-659 Retaining Wall**				**0**		**$0**	**$0**	**$0**	**$644,505**	**$0**	**$644,505**
Valve Box Extensions												
		GEN	*U.C. per*				*0*	*0*	*0*	*1000*	*0*	*1000*
	Valve Box Extensions @ 10 ft each		90.00		0		$0	$0	$0	$90,000	$0	$90,000
Memo: Assume 6 each @ 10' high x 40' x 1' ft thick = 15 CY @ $1000/CY directs												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Valve Box Extensions													
	Subtotal							$0	$0	$0	$90,000	$0	$90,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$0	$0	$0	$26,127	$0	$26,127
	Subtotal Estimate												**$116,127**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$40,644	$0	$40,644
—Total	**Valve Box Extensions**					0		**$0**	**$0**	**$0**	**$156,771**	**$0**	**$156,771**

North Perimeter Area Excavate/Backfill/Dispose (2012)

Memo: ***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***

	GEN	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
Excavation			1.00	LS		0	$0	$0	$0	$0	$0	$0

Memo: Assume 0.5 CY/min. cycle time to excavate, swing, walk, load into Stoller rolloffs, return. 50 min hour x 7 hr day. 350 min x 0.5 CY/min = 175 CY/day. 3,300 CY/175 CY/Day = 20 Days. This cycle time accounts for survey time.

00E1014	GEN	*U.C. per ea*			*200*		*0*	*27084*	*0*	*0*	*0*	*27084*
Cat 350 3 cy Hoe			1.00	ea	200	00E1014	$0	$27,084	$0	$0	$0	$27,084
00E2050	GEN	*U.C. per ea*			*200*		*0*	*6276*	*0*	*0*	*0*	*6276*
4000 gal Water Truck			1.00	ea	200	00E2050	$0	$6,276	$0	$0	$0	$6,276
CN-EQLT	GEN	*U.C. per ea*			*200*	*$38.20*	*7640*	*0*	*0*	*0*	*0*	*7640*
EQUIPMENT OPERATOR LIGHT EQUIP GROUP 4(<4 CY)			1.00	ea	200	CN-EQLT	$7,640	$0	$0	$0	$0	$7,640
CN-TRHV	GEN	*U.C. per ea*			*200*	*$37.47*	*7494*	*0*	*0*	*0*	*0*	*7494*
TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			1.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR	GEN	*U.C. per ea*			*200*	*$35.21*	*7042*	*0*	*0*	*0*	*0*	*7042*
LABORER			2.00	ea	400	CN-LABR	$14,084	$0	$0	$0	$0	$14,084
	STOLLER	*U.C. per TONS*					*0*	*0*	*0*	*16*	*0*	*16*
Transport Soils to ICDF			5,709.00	TONS		0	$0	$0	$0	$91,344	$0	$91,344

Memo: Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, INTEC transportation costs. 1.73 tons/CY negotiated factor.

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)													
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***												
	"Fill"	GEN	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Memo:	Import 3,300*1.1 = 3,630 CY material from Rye Grass Flats (10 miles one way). 3,630 CY/10 CY/Load = 363 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 363 Loads/7 Loads/Day/Truck = 52 Days/Truck. 52 Days/Truck/4 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0940	*0* $0	*5697.9* $5,698	*0* $0	*0* $0	*0* $0	*5697.9* $5,698
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*130* 520	00E2010	*0* $0	*4088.5* $16,354	*0* $0	*0* $0	*0* $0	*4088.5* $16,354
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E2050	*0* $0	*4079.4* $4,079	*0* $0	*0* $0	*0* $0	*4079.4* $4,079
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0912	*0* $0	*8563.1* $8,563	*0* $0	*0* $0	*0* $0	*8563.1* $8,563
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0630	*0* $0	*3441.1* $3,441	*0* $0	*0* $0	*0* $0	*3441.1* $3,441
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*130* 390	*$39.39* CN-ENGR	*5120.7* $15,362	*0* $0	*0* $0	*0* $0	*0* $0	*5120.7* $15,362
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*130* 650	*$37.47* CN-TRHV	*4871.1* $24,356	*0* $0	*0* $0	*0* $0	*0* $0	*4871.1* $24,356
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$35.21* CN-LABR	*4577.3* $9,155	*0* $0	*0* $0	*0* $0	*0* $0	*4577.3* $9,155
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$37.19* CN-SURV	*4834.7* $9,669	*0* $0	*0* $0	*0* $0	*0* $0	*4834.7* $9,669
	Reseeding	GEN	*U.C. per ACRES*	0.50	ACRES	0		*0* $0	*0* $0	*0* $0	*3000* $1,500	*0* $0	*3000* $1,500

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)												
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*15000*	*0*	*15000*
	Characterization of North Perimeter		1.00	LS	0		$0	$0	$0	$15,000	$0	$15,000
Memo:	Assume cores would be collected on a random grid from the north perimeter area at 10 locations to a depth of 4-ft analyzed for Cs-137 at RESL. If more than 50% exceeded the PRG we would do no more characterization and would assume all of the soil was contaminated at concentrations above the PRG and would dig all of it up for disposal at ICDF. Assume cores would be analyzed in two-ft increments. Under this assumption sampling and analysis for 20 soil samples for Cs-137 will be done. Direct-push rig and split-spoons will be used. $5,000 for analytical services, validation, adders, and SAM services, for 20 samples. For retrieving samples, 2 person crew and equipment @ $250/hr for 1 week. Total = $5K + $10K = $15K.											
	Subtotal						$87,760	$71,496	$0	$107,844	$0	$267,099
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	17.47%					$25,477	$20,755	$0	$435	$0	$46,667
	Subtotal Estimate											**$313,766**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$73,604	$59,963	$0	$70,382	$0	$203,948
---Total	**North Perimeter Area Excavate/Backfill/Dispose (2012)**				**2,360**		**$186,840**	**$152,214**	**$0**	**$178,661**	**$0**	**$517,714**

D&D CPP-654 (2012)

		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*700525*	*700525*
	D&D CPP-654		1.00	LS	0		$0	$0	$0	$0	$700,525	$700,525
Memo:	Refer to Intrepid D&D model, 2003, for 18,000 SF CPP-654. Escalation (2003 to 2006) factor = 9.06%											
	Subtotal						$0	$0	$0	$0	$700,525	$700,525
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$700,525**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$245,184	$245,184
---Total	**D&D CPP-654 (2012)**				**0**		**$0**	**$0**	**$0**	**$0**	**$945,709**	**$945,709**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
D&D CPP-699 (2012)													
		CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*435882*	*435882*
	D&D CPP-659			1.00	LS	0		$0	$0	$0	$0	$435,882	$435,882
Memo: Refer to Intrepid D&D model, 2003, for 11,200 SF CPP-699. Escalation (2003 to 2006) factor = 9.06%													
	Subtotal							$0	$0	$0	$0	$435,882	$435,882
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$435,882**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$152,559	$152,559
--Total D&D CPP-699 (2012)						**0**		**$0**	**$0**	**$0**	**$0**	**$588,441**	**$588,441**
Infiltration Barrier 2012)													
		GEN	*U.C. per LS*					*0*	*0*	*0*	*100000*	*0*	*100000*
	Grading and Preparation			1.00	LS	0		$0	$0	$0	$100,000	$0	$100,000
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-North Perimeter Area			0.51	ACRES	0		$0	$0	$0	$107,100	$0	$107,100
Memo: Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres													
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-South Perimeter Area			0.90	ACRES	0		$0	$0	$0	$189,000	$0	$189,000
Memo: Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. South perimeter area = 39,181 SF = 0.90 acres													

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Infiltration Barrier 2012)												
	GEN	*U.C. per ACRES*					*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-PRCZ Area		3.50	ACRES	0		$0	$0	$0	$735,000	$0	$735,000
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. PRCZ Perimeter= 151,853 SF = 3.5 acres											
	Subtotal						$0	$0	$0	$1,131,100	$0	$1,131,100
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$328,358	$0	$328,358
	Subtotal Estimate											**$1,459,458**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$291,892	$0	$291,892
---Total	**Infiltration Barrier 2012)**				**0**		**$0**	**$0**	**$0**	**$1,751,350**	**$0**	**$1,751,350**
Infiltration Barrier (2035)												
	GEN	*U.C. per LS*					*0*	*0*	*0*	*25000*	*0*	*25000*
	Grading and Preparation		1.00	LS	0		$0	$0	$0	$25,000	$0	$25,000
	GEN	*U.C. per ACRES*					*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-CPP-15		0.25	ACRES	0		$0	$0	$0	$52,500	$0	$52,500
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres											
	Subtotal						$0	$0	$0	$77,500	$0	$77,500
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$22,498	$0	$22,498
	Subtotal Estimate											**$99,998**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$20,000	$0	$20,000
---Total	**Infiltration Barrier (2035)**				**0**		**$0**	**$0**	**$0**	**$119,998**	**$0**	**$119,998**

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Grading Fill-Central Area			18,372.00	CY	0		$0	$0	$0	$734,880	$0	$734,880
Memo: Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.													
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-Central Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo: Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.													
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			3,283.00	CY	0		$0	$0	$0	$82,075	$0	$82,075
Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.													
00E0940		GEN	*U.C. per ea*			*40*		*0*	*1753.2*	*0*	*0*	*0*	*1753.2*
	Cat 950 4 cy Loader			1.00	ea	40	00E0940	$0	$1,753	$0	$0	$0	$1,753
Memo: Loader at material source.													
00E2010		GEN	*U.C. per ea*			*40*		*0*	*1258*	*0*	*0*	*0*	*1258*
	12 cy End Dump			4.00	ea	160	00E2010	$0	$5,032	$0	$0	$0	$5,032
00E2050		GEN	*U.C. per ea*			*40*		*0*	*1255.2*	*0*	*0*	*0*	*1255.2*
	4000 gal Water Truck			1.00	ea	40	00E2050	$0	$1,255	$0	$0	$0	$1,255
00E0912		GEN	*U.C. per ea*			*40*		*0*	*2634.8*	*0*	*0*	*0*	*2634.8*
	Cat 14 Grader			1.00	ea	40	00E0912	$0	$2,635	$0	$0	$0	$2,635
00E0630		GEN	*U.C. per ea*			*40*		*0*	*1058.8*	*0*	*0*	*0*	*1058.8*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	40	00E0630	$0	$1,059	$0	$0	$0	$1,059
CN-ENGR		GEN	*U.C. per ea*			*40*	*$39.39*	*1575.6*	*0*	*0*	*0*	*0*	*1575.6*
	OPERATING ENGINEER			3.00	ea	120	CN-ENGR	$4,727	$0	$0	$0	$0	$4,727
CN-TRHV		GEN	*U.C. per ea*			*40*	*$37.47*	*1498.8*	*0*	*0*	*0*	*0*	*1498.8*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*40*	*$35.21*	*1408.4*	*0*	*0*	*0*	*0*	*1408.4*
	LABORER			2.00	ea	80	CN-LABR	$2,817	$0	$0	$0	$0	$2,817

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
CN-SURV		GEN	*U.C. per ea*			*40*	*$37.19*	*1487.6*	*0*	*0*	*0*	*0*	*1487.6*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	80	CN-SURV	$2,975	$0	$0	$0	$0	$2,975
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	1'-0" Cobble Layer-Central Area			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo: Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 1.0 = 177,216 CF/27 CF/CY = 6564 CY.													
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Cobble Stone-Central Area			6,564.00	CY	0		$0	$0	$0	$262,560	$0	$262,560
Memo: Cobble stone material cost delivered (local vendor quote). Deliver 6,564 CY cobble from town, to borrow pile, 1/2 mile from job site. 6,564 CY/10 CY/Load = 656 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 656 Loads/24 Loads/Day/Truck = 28 Days/Truck. 28 Days/Truck/4 Trucks = 7 Days. Equipment costs from Blue Book.													
00E0940		GEN	*U.C. per ea*			*70*		*0*	*3068.1*	*0*	*0*	*0*	*3068.1*
	Cat 950 4 cy Loader			1.00	ea	70	00E0940	$0	$3,068	$0	$0	$0	$3,068
Memo: Loader at material source.													
00E2010		GEN	*U.C. per ea*			*70*		*0*	*2201.5*	*0*	*0*	*0*	*2201.5*
	12 cy End Dump			4.00	ea	280	00E2010	$0	$8,806	$0	$0	$0	$8,806
00E2050		GEN	*U.C. per ea*			*70*		*0*	*2196.6*	*0*	*0*	*0*	*2196.6*
	4000 gal Water Truck			1.00	ea	70	00E2050	$0	$2,197	$0	$0	$0	$2,197
00E0912		GEN	*U.C. per ea*			*70*		*0*	*4610.9*	*0*	*0*	*0*	*4610.9*
	Cat 14 Grader			1.00	ea	70	00E0912	$0	$4,611	$0	$0	$0	$4,611
00E0630		GEN	*U.C. per ea*			*70*		*0*	*1852.9*	*0*	*0*	*0*	*1852.9*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	70	00E0630	$0	$1,853	$0	$0	$0	$1,853
CN-ENGR		GEN	*U.C. per ea*			*70*	*$39.39*	*2757.3*	*0*	*0*	*0*	*0*	*2757.3*
	OPERATING ENGINEER			3.00	ea	210	CN-ENGR	$8,272	$0	$0	$0	$0	$8,272
CN-TRHV		GEN	*U.C. per ea*			*70*	*$37.47*	*2622.9*	*0*	*0*	*0*	*0*	*2622.9*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	350	CN-TRHV	$13,115	$0	$0	$0	$0	$13,115
CN-LABR		GEN	*U.C. per ea*			*70*	*$35.21*	*2464.7*	*0*	*0*	*0*	*0*	*2464.7*
	LABORER			2.00	ea	140	CN-LABR	$4,929	$0	$0	$0	$0	$4,929
CN-SURV		GEN	*U.C. per ea*			*70*	*$37.19*	*2603.3*	*0*	*0*	*0*	*0*	*2603.3*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	140	CN-SURV	$5,207	$0	$0	$0	$0	$5,207

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-Central Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo: Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.													
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			3,283.00	CY	0		$0	$0	$0	$82,075	$0	$82,075
Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.													
00E0940		GEN	*U.C. per ea*			*40*		*0*	*1753.2*	*0*	*0*	*0*	*1753.2*
	Cat 950 4 cy Loader			1.00	ea	40	00E0940	$0	$1,753	$0	$0	$0	$1,753
Memo: Loader at material source.													
00E2010		GEN	*U.C. per ea*			*40*		*0*	*1258*	*0*	*0*	*0*	*1258*
	12 cy End Dump			4.00	ea	160	00E2010	$0	$5,032	$0	$0	$0	$5,032
00E2050		GEN	*U.C. per ea*			*40*		*0*	*1255.2*	*0*	*0*	*0*	*1255.2*
	4000 gal Water Truck			1.00	ea	40	00E2050	$0	$1,255	$0	$0	$0	$1,255
00E0912		GEN	*U.C. per ea*			*40*		*0*	*2634.8*	*0*	*0*	*0*	*2634.8*
	Cat 14 Grader			1.00	ea	40	00E0912	$0	$2,635	$0	$0	$0	$2,635
00E0630		GEN	*U.C. per ea*			*40*		*0*	*1058.8*	*0*	*0*	*0*	*1058.8*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	40	00E0630	$0	$1,059	$0	$0	$0	$1,059
CN-ENGR		GEN	*U.C. per ea*			*40*	*$39.39*	*1575.6*	*0*	*0*	*0*	*0*	*1575.6*
	OPERATING ENGINEER			3.00	ea	120	CN-ENGR	$4,727	$0	$0	$0	$0	$4,727
CN-TRHV		GEN	*U.C. per ea*			*40*	*$37.47*	*1498.8*	*0*	*0*	*0*	*0*	*1498.8*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*40*	*$35.21*	*1408.4*	*0*	*0*	*0*	*0*	*1408.4*
	LABORER			2.00	ea	80	CN-LABR	$2,817	$0	$0	$0	$0	$2,817
CN-SURV		GEN	*U.C. per ea*			*40*	*$37.19*	*1487.6*	*0*	*0*	*0*	*0*	*1487.6*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	80	CN-SURV	$2,975	$0	$0	$0	$0	$2,975

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"3.5' USCS Soil Type ML or CL Central Zone"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 3.5 = 620,256 CF/27 CF/CY = 22,972 CY. Import 3.5' (22,972 CY) material from Rye Grass Flats (10 miles one way). 22,972 CY/10 CY/Load = 2,297 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 2,297 Loads/7 Loads/Day/Truck = 328 Days/Truck. 328 Days/Truck/8 Trucks = 41 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*410*		*0*	*17970.3*	*0*	*0*	*0*	*17970.3*
	Cat 950 4 cy Loader			1.00	ea	410	00E0940	$0	$17,970	$0	$0	$0	$17,970
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*410*		*0*	*12894.5*	*0*	*0*	*0*	*12894.5*
	12 cy End Dump			8.00	ea	3,280	00E2010	$0	$103,156	$0	$0	$0	$103,156
00E2050		GEN	*U.C. per ea*			*410*		*0*	*12865.8*	*0*	*0*	*0*	*12865.8*
	4000 gal Water Truck			1.00	ea	410	00E2050	$0	$12,866	$0	$0	$0	$12,866
00E0912		GEN	*U.C. per ea*			*410*		*0*	*27006.7*	*0*	*0*	*0*	*27006.7*
	Cat 14 Grader			1.00	ea	410	00E0912	$0	$27,007	$0	$0	$0	$27,007
00E0630		GEN	*U.C. per ea*			*410*		*0*	*10852.7*	*0*	*0*	*0*	*10852.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	410	00E0630	$0	$10,853	$0	$0	$0	$10,853
CN-ENGR		GEN	*U.C. per ea*			*410*	*$39.39*	*16149.9*	*0*	*0*	*0*	*0*	*16149.9*
	OPERATING ENGINEER			3.00	ea	1,230	CN-ENGR	$48,450	$0	$0	$0	$0	$48,450
CN-TRHV		GEN	*U.C. per ea*			*410*	*$37.47*	*15362.7*	*0*	*0*	*0*	*0*	*15362.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			9.00	ea	3,690	CN-TRHV	$138,264	$0	$0	$0	$0	$138,264
CN-LABR		GEN	*U.C. per ea*			*410*	*$35.21*	*14436.1*	*0*	*0*	*0*	*0*	*14436.1*
	LABORER			2.00	ea	820	CN-LABR	$28,872	$0	$0	$0	$0	$28,872
CN-SURV		GEN	*U.C. per ea*			*410*	*$37.19*	*15247.9*	*0*	*0*	*0*	*0*	*15247.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	820	CN-SURV	$30,496	$0	$0	$0	$0	$30,496
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Topsoil with Gravel Admix Central Zone"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3282 CY. Import 3/4 of 6" lift (2462 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	USCS Soil Type ML or CL			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*90*		*0*	*3944.7*	*0*	*0*	*0*	*3944.7*
	Cat 950 4 cy Loader			1.00	ea	90	00E0940	$0	$3,945	$0	$0	$0	$3,945
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*90*		*0*	*2830.5*	*0*	*0*	*0*	*2830.5*
	12 cy End Dump			4.00	ea	360	00E2010	$0	$11,322	$0	$0	$0	$11,322
00E2050		GEN	*U.C. per ea*			*90*		*0*	*2824.2*	*0*	*0*	*0*	*2824.2*
	4000 gal Water Truck			1.00	ea	90	00E2050	$0	$2,824	$0	$0	$0	$2,824
00E0912		GEN	*U.C. per ea*			*90*		*0*	*5928.3*	*0*	*0*	*0*	*5928.3*
	Cat 14 Grader			1.00	ea	90	00E0912	$0	$5,928	$0	$0	$0	$5,928
00E0630		GEN	*U.C. per ea*			*90*		*0*	*2382.3*	*0*	*0*	*0*	*2382.3*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	90	00E0630	$0	$2,382	$0	$0	$0	$2,382
CN-ENGR		GEN	*U.C. per ea*			*90*	*$39.39*	*3545.1*	*0*	*0*	*0*	*0*	*3545.1*
	OPERATING ENGINEER			3.00	ea	270	CN-ENGR	$10,635	$0	$0	$0	$0	$10,635
CN-TRHV		GEN	*U.C. per ea*			*90*	*$37.47*	*3372.3*	*0*	*0*	*0*	*0*	*3372.3*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	450	CN-TRHV	$16,862	$0	$0	$0	$0	$16,862
CN-LABR		GEN	*U.C. per ea*			*90*	*$35.21*	*3168.9*	*0*	*0*	*0*	*0*	*3168.9*
	LABORER			2.00	ea	180	CN-LABR	$6,338	$0	$0	$0	$0	$6,338
CN-SURV		GEN	*U.C. per ea*			*90*	*$37.19*	*3347.1*	*0*	*0*	*0*	*0*	*3347.1*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	180	CN-SURV	$6,694	$0	$0	$0	$0	$6,694
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	3/8" Pea Gravel			820.00	CY	0		$0	$0	$0	$20,500	$0	$20,500
Memo:	1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 820 CY gravel from town, to borrow pile, 1/2 mile from job site. 820 CY/10 CY/Load = 82 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 82 Loads/24 Loads/Day/Truck = 4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
00E0940	Cat 950 4 cy Loader Memo: Loader at material source.	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*10* 40	00E2010	*0* $0	*314.5* $1,258	*0* $0	*0* $0	*0* $0	*314.5* $1,258
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*10* 50	*$37.47* CN-TRHV	*374.7* $1,874	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $1,874
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2012)													
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*3000*	*0*	*3000*
	Reseeding Central Zone Area			4.07	ACRES	0		$0	$0	$0	$12,210	$0	$12,210
Memo: 177,216 SF (per CWI Design Engr) = 4.07 Acres													
	Subtotal							$358,662	$245,189	$0	$1,194,300	$0	$1,798,151
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$104,120	$71,178	$0	$346,705	$0	$522,003
	Subtotal Estimate												**$2,320,154**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$92,556	$63,273	$0	$308,201	$0	$464,031
---Total	**Tank Farm ET Cover Central Zone (2012)**					**9,560**		**$555,338**	**$379,641**	**$0**	**$1,849,206**	**$0**	**$2,784,185**

Tank Farm ET Cover South Perimeter Area (2035)

Memo: 54,205 SF (per CWI Design Engr) = 1.25 Acres

		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Grading Fill-South Perimeter Area (FY 2035)			3,431.00	CY	0		$0	$0	$0	$137,240	$0	$137,240
Memo: Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.													
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-South Perimeter Area*			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo: Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.													
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			1,004.00	CY	0		$0	$0	$0	$25,100	$0	$25,100
Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.													
00E0940		GEN	*U.C. per ea*			*10*		*0*	*438.3*	*0*	*0*	*0*	*438.3*
	Cat 950 4 cy Loader			1.00	ea	10	00E0940	$0	$438	$0	$0	$0	$438
Memo: Loader at material source.													
00E2010		GEN	*U C per ea*			*10*		*0*	*314.5*	*0*	*0*	*0*	*314.5*
	12 cy End Dump			4.00	ea	40	00E2010	$0	$1,258	$0	$0	$0	$1,258

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
00E2050		GEN	*U.C. per ea*			*10*		*0*	*313.8*	*0*	*0*	*0*	*313.8*
	4000 gal Water Truck			1.00	ea	10	00E2050	$0	$314	$0	$0	$0	$314
00E0912		GEN	*U.C. per ea*			*10*		*0*	*658.7*	*0*	*0*	*0*	*658.7*
	Cat 14 Grader			1.00	ea	10	00E0912	$0	$659	$0	$0	$0	$659
00E0630		GEN	*U.C. per ea*			*10*		*0*	*264.7*	*0*	*0*	*0*	*264.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	10	00E0630	$0	$265	$0	$0	$0	$265
CN-ENGR		GEN	*U.C. per ea*			*10*	*$39.39*	*393.9*	*0*	*0*	*0*	*0*	*393.9*
	OPERATING ENGINEER			3.00	ea	30	CN-ENGR	$1,182	$0	$0	$0	$0	$1,182
CN-TRHV		GEN	*U.C. per ea*			*10*	*$37.47*	*374.7*	*0*	*0*	*0*	*0*	*374.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	50	CN-TRHV	$1,874	$0	$0	$0	$0	$1,874
CN-LABR		GEN	*U.C. per ea*			*10*	*$35.21*	*352.1*	*0*	*0*	*0*	*0*	*352.1*
	LABORER			2.00	ea	20	CN-LABR	$704	$0	$0	$0	$0	$704
CN-SURV		GEN	*U.C. per ea*			*10*	*$37.19*	*371.9*	*0*	*0*	*0*	*0*	*371.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	20	CN-SURV	$744	$0	$0	$0	$0	$744
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"1'-0" Cobble Layer-South Perimeter Area*			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 1.0 = 54,204 CF/27 CF/CY = 2,008 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Cobble Stone-South Perimeter Area			2,008.00	CY	0		$0	$0	$0	$80,320	$0	$80,320
Memo:	Cobble stone material cost delivered (local vendor quote). Deliver 2,008 CY cobble from town, to borrow pile, 1/2 mile from job site. 2,008 CY/10 CY/Load = 201 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 201 Loads/24 Loads/Day/Truck = 8 Days/Truck. 8 Days/Truck/4 Trucks = 2 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*20*		*0*	*876.6*	*0*	*0*	*0*	*876.6*
	Cat 950 4 cy Loader			1.00	ea	20	00E0940	$0	$877	$0	$0	$0	$877
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*20*		*0*	*629*	*0*	*0*	*0*	*629*
	12 cy End Dump			4.00	ea	80	00E2010	$0	$2,516	$0	$0	$0	$2,516

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
00E2050		GEN	*U.C. per ea*			*20*		*0*	*627.6*	*0*	*0*	*0*	*627.6*
	4000 gal Water Truck			1.00	ea	20	00E2050	$0	$628	$0	$0	$0	$628
00E0912		GEN	*U.C. per ea*			*20*		*0*	*1317.4*	*0*	*0*	*0*	*1317.4*
	Cat 14 Grader			1.00	ea	20	00E0912	$0	$1,317	$0	$0	$0	$1,317
00E0630		GEN	*U.C. per ea*			*20*		*0*	*529.4*	*0*	*0*	*0*	*529.4*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	20	00E0630	$0	$529	$0	$0	$0	$529
CN-ENGR		GEN	*U.C. per ea*			*20*	*$39.39*	*787.8*	*0*	*0*	*0*	*0*	*787.8*
	OPERATING ENGINEER			3.00	ea	60	CN-ENGR	$2,363	$0	$0	$0	$0	$2,363
CN-TRHV		GEN	*U.C. per ea*			*20*	*$37.47*	*749.4*	*0*	*0*	*0*	*0*	*749.4*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<96000GVW)			5.00	ea	100	CN-TRHV	$3,747	$0	$0	$0	$0	$3,747
CN-LABR		GEN	*U.C. per ea*			*20*	*$35.21*	*704.2*	*0*	*0*	*0*	*0*	*704.2*
	LABORER			2.00	ea	40	CN-LABR	$1,408	$0	$0	$0	$0	$1,408
CN-SURV		GEN	*U.C. per ea*			*20*	*$37.19*	*743.8*	*0*	*0*	*0*	*0*	*743.8*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	40	CN-SURV	$1,488	$0	$0	$0	$0	$1,488
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-South Perimeter Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			1,004.00	CY	0		$0	$0	$0	$25,100	$0	$25,100
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*10*		*0*	*438.3*	*0*	*0*	*0*	*438.3*
	Cat 950 4 cy Loader			1.00	ea	10	00E0940	$0	$438	$0	$0	$0	$438
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*10*		*0*	*314.5*	*0*	*0*	*0*	*314.5*
	12 cy End Dump			4.00	ea	40	00E2010	$0	$1,258	$0	$0	$0	$1,258

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*10* 50	*$37.47* CN-TRHV	*374.7* $1,874	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $1,874
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744
	3.5' USCS Soil Type ML or CL South Perimeter Area	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 3.5 = 189,714 CF/27 CF/CY = 7,026 CY. Import 3.5' (7,026 CY) material from Rye Grass Flats (10 miles one way). 7,026 CY/10 CY/Load = 703 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 703 Loads/7 Loads/Day/Truck = 100 Days/Truck. 100 Days/Truck/8 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0940	*0* $0	*5697.9* $5,698	*0* $0	*0* $0	*0* $0	*5697.9* $5,698
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	8.00	ea	*130* 1,040	00E2010	*0* $0	*4088.5* $32,708	*0* $0	*0* $0	*0* $0	*4088.5* $32,708
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E2050	*0* $0	*4079.4* $4,079	*0* $0	*0* $0	*0* $0	*4079.4* $4,079

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0912	*0* $0	*8563.1* $8,563	*0* $0	*0* $0	*0* $0	*8563.1* $8,563
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0630	*0* $0	*3441.1* $3,441	*0* $0	*0* $0	*0* $0	*3441.1* $3,441
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*130* 390	*$39.39* CN-ENGR	*5120.7* $15,362	*0* $0	*0* $0	*0* $0	*0* $0	*5120.7* $15,362
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	9.00	ea	*130* 1,170	*$37.47* CN-TRHV	*4871.1* $43,840	*0* $0	*0* $0	*0* $0	*0* $0	*4871.1* $43,840
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$35.21* CN-LABR	*4577.3* $9,155	*0* $0	*0* $0	*0* $0	*0* $0	*4577.3* $9,155
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$37.19* CN-SURV	*4834.7* $9,669	*0* $0	*0* $0	*0* $0	*0* $0	*4834.7* $9,669
	"6" Topsoil with Gravel Admix South Perimeter Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1,004 CY. Import 3/4 of 6" lift (750 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
	"USCS Soil Type ML or CL"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0940	*0* $0	*1314.9* $1,315	*0* $0	*0* $0	*0* $0	*1314.9* $1,315
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*30* 120	00E2010	*0* $0	*943.5* $3,774	*0* $0	*0* $0	*0* $0	*943.5* $3,774
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E2050	*0* $0	*941.4* $941	*0* $0	*0* $0	*0* $0	*941.4* $941

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0912	*0* $0	*1976.1* $1,976	*0* $0	*0* $0	*0* $0	*1976.1* $1,976
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0630	*0* $0	*794.1* $794	*0* $0	*0* $0	*0* $0	*794.1* $794
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*30* 90	*$39.39* CN-ENGR	*1181.7* $3,545	*0* $0	*0* $0	*0* $0	*0* $0	*1181.7* $3,545
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*30* 150	*$37.47* CN-TRHV	*1124.1* $5,621	*0* $0	*0* $0	*0* $0	*0* $0	*1124.1* $5,621
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$35.21* CN-LABR	*1056.3* $2,113	*0* $0	*0* $0	*0* $0	*0* $0	*1056.3* $2,113
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$37.19* CN-SURV	*1115.7* $2,231	*0* $0	*0* $0	*0* $0	*0* $0	*1115.7* $2,231
	3/8" Pea Gravel	GEN	*U.C. per CY*	250.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $6,250	*0* $0	*25* $6,250
Memo:	1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 250 CY gravel from town, to borrow pile, 1/2 mile from job site. 250 CY/10 CY/Load = 25 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 25 Loads/24 Loads/Day/Truck = 1 Day/Truck. = 1 Day. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2010	*0* $0	*314.5* $315	*0* $0	*0* $0	*0* $0	*314.5* $315
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.47* CN-TRHV	*374.7* $749	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $749
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744
	Reseeding South Perimeter Area Memo: 54,204 SF (per CWI Design Engr) = 1.25 Acres	GEN	*U.C. per ACRES*	1.25	ACRES	0		*0* $0	*0* $0	*0* $0	*3000* $3,750	*0* $0	*3000* $3,750
	Subtotal							$112,928	$77,014	$0	$277,760	$0	$467,702
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$32,783	$22,357	$0	$80,634	$0	$135,774
	Subtotal Estimate												**$603,475**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$29,142	$19,874	$0	$71,679	$0	$120,695
—Total	**Tank Farm ET Cover South Perimeter Area (2035)**					**3,010**		**$174,852**	**$119,245**	**$0**	**$430,073**	**$0**	**$724,170**

Mobilization and Subcontractor Preparations

	SUBCONTRACTOR ON SITE MOBILIZATION	GROUT	*U.C. per LS*	1.00	NM80 LS	0		*0* $0	*0* $0	*0* $0	*150000* $150,000	*0* $0	*150000* $150,000

Memo: Estimated cost is based on Layne's (SLC grouting contractor) proposal for the Be grouting project. (This Be project was based on a wax-fixed system). This estimate assumes mobilization and vendor prep will be double Layne's price due to batch plant, grout delivery, and injection systems.

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Mobilization and Subcontractor Preparations													
	VENDOR PREP.	GROUT	*U.C. per LS*	1.00	NM80 LS	0		*0* $0	*0* $0	*0* $0	*150000* $150,000	*0* $0	*150000* $150,000
	Subtotal							$0	$0	$0	$300,000	$0	$300,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$300,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$150,000	$0	$150,000
--Total	**Mobilization and Subcontractor Preparations**					**0**		**$0**	**$0**	**$0**	**$450,000**	**$0**	**$450,000**
Subcontractor Equipment Procurement													
	Purchase Casa Grande C-6 Track Mounted Drill Rig	GROUT	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*390000* $390,000	*0* $0	*390000* $390,000
	Memo: Cost is per a 3/19/03 verbal quotation from Jim Campbell of International Construction Equipment (Casa Grande rep) in North Carolina, escalated to 2005.												
	Purchase Thrust Block Assembly	GROUT	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*150000* $150,000	*0* $0	*150000* $150,000
	Memo: See FS, page 58. Costs from "In-Situ Grout Treatability Study Thrust Block Cost Estimate", 3/28/01 escalated to 2005. Includes HEPA filtration.												
	Subtotal							$0	$0	$0	$540,000	$0	$540,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$540,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$270,000	$0	$270,000
--Total	**Subcontractor Equipment Procurement**					**0**		**$0**	**$0**	**$0**	**$810,000**	**$0**	**$810,000**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Grout Procurement and Delivery													
		GROUT	*U.C. per Ea*		NM80			*0*	*0*	*0*	*250000*	*0*	*250000*
	BATCH PLANT PROCUREMENT			1.00	Ea	0		$0	$0	$0	$250,000	$0	$250,000
		GROUT	*U.C. per GAL*		NM80			*0*	*0*	*2.39*	*0*	*0*	*2.39*
	GROUT VOLUME			387,000.00	GAL	0		$0	$0	$924,930	$0	$0	$924,930
Memo:	See FS, section 4.4.4.1.2.2, page 58: 750 gal grout/column x 516 columns = 387,000 gallons grout. 2,500,000 lbs cement x $0.37/lb delivered to INL (quote from US Grout, Malad, Idaho) = $925,000. $925,000/387,000 gallons = $2.39/gallon.												
		GROUT	*U.C. per LS*		NM80	*2080*	*$39.03*	*81182.4*	*0*	*0*	*0*	*0*	*81182.4*
	GROUT DELIVERY			1.00	LS	2,080	CN-EQMD	$81,182	$0	$0	$0	$0	$81,182
Memo:	Costs include operation of the batch plant. The estimate assumes 4 men to operate the batch plant. Per FS, 516 boreholes/10 boreholes/day = 52 working days. 52 x 10 x 4 = 2080 m.hrs.												
	Subtotal							$81,182	$0	$924,930	$250,000	$0	$1,256,112
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$1,256,112**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$40,591	$0	$462,465	$125,000	$0	$628,056
---Total	**Grout Procurement and Delivery**					**2,080**		**$121,774**	**$0**	**$1,387,395**	**$375,000**	**$0**	**$1,884,169**
Move Thrust Block Assembly													
Memo:	***Crew required for the work duration (52 days).***												
		GROUT	*U.C. per hrs*			*1*		*0*	*152.37*	*0*	*0*	*0*	*152.37*
00E1370	Manitowoc 3900WS2 150 tn Crawler Crane			520.00	hrs	520	00E1370	$0	$84,432	$0	$0	$0	$84,432
		GROUT	*U.C. per hrs*			*1*	*$40.89*	*40.89*	*0*	*0*	*0*	*0*	*40.89*
CN-EQHV	EQUIPMENT OPERATOR HEAVY EQUIP GROUP 7(OVER 50T OR <100' BOOM)			520.00	hrs	520	CN-EQHV	$21,263	$0	$0	$0	$0	$21,263
		GROUT	*U.C. per hrs*			*1*	*$38.78*	*38.78*	*0*	*0*	*0*	*0*	*38.78*
CN-EQOL	OPERATING ENGINEER OILER			520.00	hrs	520	CN-EQOL	$20,166	$0	$0	$0	$0	$20,166

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Move Thrust Block Assembly													
Memo:	***Crew required for the work duration (52 days).***												
CN-LABR		GROUT	*U.C. per hrs*			*1*	*$35.21*	*35.21*	*0*	*0*	*0*	*0*	*35.21*
LABORER				1,040.00	hrs	1,040	CN-LABR	$36,618	$0	$0	$0	$0	$36,618
Subtotal								$78,047	$84,432	$0	$0	$0	$162,479
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$162,479**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$39,023	$42,216	$0	$0	$0	$81,240
--Total	**Move Thrust Block Assembly**					**2,080**		**$117,070**	**$126,649**	**$0**	**$0**	**$0**	**$243,719**

Grout Injection

Memo: ***Labor rate is based on a 5 man grouting crew per machine and, per the FS, assumes a production rate of 10 columns/day, for 52 total days. 52 x 10 x 5 = 2600 m.hrs.***

	GROUT	*U.C. per Ls*			*2600*	*$39.03*	*101478*	*0*	*0*	*0*	*0*	*101478*
LABOR FOR GROUT PLACEMENT			1.00	Ls	2,600	CN-EQMD	$101,478	$0	$0	$0	$0	$101,478

Memo: Labor rate is based on a 5 man grouting crew and assumes, per the FS, a production rate of 10 boreholes/day for a total of 52 days. 52 days x 5 x 10 hrs/day = 2600 m.hrs.

	GROUT	*U.C. per LS*			*520*	*$39.03*	*20295.6*	*0*	*0*	*0*	*0*	*20295.6*
DATA COLLECTION			1.00	LS	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296

Memo: 1 person x 52 days x 10 hrs/day.

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Grout Injection												
Memo:	***Labor rate is based on a 5 man grouting crew per machine and, per the FS, assumes a production rate of 10 columns/day, for 52 total days. 52 x 10 x 5 = 2600 m.hrs.***											
	GROUT	*U.C. per GAL.*					*0*	*0*	*3*	*0*	*0*	*3*
	FUEL		10,400.00	GAL.	0		$0	$0	$31,200	$0	$0	$31,200
Memo: The estimate assumes 200 gallons of fuel/day for Casa Grande and crane.												
	Subtotal						$121,774	$0	$31,200	$0	$0	$152,974
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$152,974**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$60,887	$0	$15,600	$0	$0	$76,487
---Total	**Grout Injection**				**3,120**		**$182,660**	**$0**	**$46,800**	**$0**	**$0**	**$229,460**
Maintenance												
Memo:	***The estimate assumes grouting activities will run 13 weeks.***											
	GROUT	*U.C. per LS*	NM80				*0*	*0*	*0*	*0*	*250000*	*250000*
	ALOWANCE FOR MATERIALS/SPARES		1.00	LS	0		$0	$0	$0	$0	$250,000	$250,000
	GROUT	*U.C. per Ea*	NM80		*520*	*$39.03*	*20295.6*	*0*	*0*	*0*	*0*	*20295.6*
	CONSTRUCTION OTHER CRAFTS, HEAVY MECHANIC		1.00	Ea	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296
	Subtotal						$20,296	$0	$0	$0	$250,000	$270,296
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$270,296**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$10,148	$0	$0	$0	$125,000	$135,148
---Total	**Maintenance**				**520**		**$30,443**	**$0**	**$0**	**$0**	**$375,000**	**$405,443**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Shut-Down/Demobilization												
	GROUT	*U.C. per Ls*			*400*	*$39.03*	*15612*	*0*	*0*	*0*	*0*	*15612*
	LABOR FOR SHUT DOWN/DEMOB		1.00	Ls	400	CN-EQMD	$15,612	$0	$0	$0	$0	$15,612
	Subtotal						$15,612	$0	$0	$0	$0	$15,612
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$15,612**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$7,806	$0	$0	$0	$0	$7,806
—Total	**Shut-Down/Demobilization**				**400**		**$23,418**	**$0**	**$0**	**$0**	**$0**	**$23,418**
General Subcontract Costs												
	GROUT	*U.C. per Hrs*			*1*	*$39.03*	*39.03*	*0*	*0*	*0*	*0*	*39.03*
	SUPERVISION, 10 HOUR DAY, 4 DAY WORK WEEK, 13 WEEKS		520.00	Hrs	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296
	GROUT	*U.C. per DAYS*					*0*	*0*	*0*	*0*	*165*	*165*
	PERDIEM FOR 6 FTE's FOR 13- 7 DAY WEEKS		546.00	DAYS	0		$0	$0	$0	$0	$90,090	$90,090
	Memo: Incl hotel, expenses, car, airline tickets.											
	Subtotal						$20,296	$0	$0	$0	$90,090	$110,386
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$110,386**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$10,148	$0	$0	$0	$45,045	$55,193
—Total	**General Subcontract Costs**				**520**		**$30,443**	**$0**	**$0**	**$0**	**$135,135**	**$165,578**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Disposal													
Memo:	***1800 CY for disposal at ICDF (see J. Keck email to J. Folker dated 10/20/2005). Assume Stoller transport and disposal unit rates.***												
		STOLLER	*U.C. per ea*					*0*	*0*	*1349*	*0*	*0*	*1349*
	Boxes			450.00	ea	0		$0	$0	$607,050	$0	$0	$607,050
Memo:	Each box 4 x 4 x 8. (4 CY debris/ea). 1800 CY/4CY/box = 450 Boxes. Unit cost from Attch 1 to contract 21115, Team Stoller.												
		STOLLER	*U.C. per TONS*					*0*	*0*	*0*	*16*	*0*	*16*
	Transport to ICDF			3,114.00	TONS	0		$0	$0	$0	$49,824	$0	$49,824
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, INTEC transportation costs. 1.73 tons/CY negotiated factor.												
		STOLLER	*U.C. per TONS*					*0*	*0*	*0*	*0*	*13.61*	*13.61*
	Bulk Placement			3,114.00	TONS	0		$0	$0	$0	$0	$42,382	$42,382
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, ICDF bulk placement costs. 1.73 tons/CY negotiated factor.												
	Subtotal							$0	$0	$607,050	$49,824	$42,382	$699,256
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$699,256**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$303,525	$24,912	$21,191	$349,628
—Total	**Disposal**					**0**		**$0**	**$0**	**$910,575**	**$74,736**	**$63,572**	**$1,048,883**
Project Management (Capital)													
		CWI	*U.C. per $$*					*0.05*	*0*	*0*	*0*	*0*	*0.05*
	PM cost estimated at 5% of construction			10,880,667.00	$$	0		$544,033	$0	$0	$0	$0	$544,033

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (Capital)												
	Subtotal						$544,033	$0	$0	$0	$0	$544,033
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$544,033**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
--Total	**Project Management (Capital)**				0		**$544,033**	**$0**	**$0**	**$0**	**$0**	**$544,033**
Remedial Design/Remedial Action Work Plan												
	CWI	*U.C. per $$*					*0.08*	*0*	*0*	*0*	*0*	*0.08*
	RA Work Plan cost estimated at 8% of construction		10,880,667.00	$$	0		$870,453	$0	$0	$0	$0	$870,453
	Memo: Estimate assumes equipment design will be done by equipment manufacturers, for the track-hoe.											
	Subtotal						$870,453	$0	$0	$0	$0	$870,453
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$870,453**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Remedial Design/Remedial Action Work Plan**				0		**$870,453**	**$0**	**$0**	**$0**	**$0**	**$870,453**
Construction Management (Capital)												
	CWI	*U.C. per $$*					*0.06*	*0*	*0*	*0*	*0*	*0.06*
	CM cost estimated at 6% of construction		10,880,667.00	$$	0		$652,840	$0	$0	$0	$0	$652,840

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Construction Management (Capital)													
	Subtotal							$652,840	$0	$0	$0	$0	$652,840
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$652,840**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$0	$0
---Total	**Construction Management (Capital)**					0		**$652,840**	**$0**	**$0**	**$0**	**$0**	**$652,840**
Extraction, Containment, or Treatment Systems													
Memo:	***Costs for tank farm drainage maintenance, lift station pump tests, drainage inspections, annual O&M data collection, reports, and transmittal of reports to agencies. For basis, see estimate file # 2966-K. (Total cost per year is $528,000/7 yrs (FY06-12)) = $75,000 annual cost.***												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*75000*	*75000*
	Surface Water Controls			1.00	LS	0		$0	$0	$0	$0	$75,000	$75,000
	Subtotal							$0	$0	$0	$0	$75,000	$75,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$75,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$0	$11,250	$11,250
—Total	**Extraction, Containment, or Treatment Systems**					0		**$0**	**$0**	**$0**	**$0**	**$86,250**	**$86,250**
Project Management (O&M) (Annual)													
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. 10 hrs/month. Based on current/proposed crew makeup and determined duration periods.***												
E28		CWI	*U.C. per hrs*			*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
	PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (O&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. 10 hrs/month. Based on current/proposed crew makeup and determined duration periods.***											
Subtotal							$8,882	$0	$0	$0	$0	$8,882
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$8,882**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$1,332	$0	$0	$0	$0	$1,332
--Total	**Project Management (O&M) (Annual)**				**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**

Project Management (S&M) (Annual)

Memo: ***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***

E28	CWI	*U.C. per months*			*10*	*$74.02*	*740.2*	*0*	*0*	*0*	*0*	*740.2*
PROJECT MANAGEMENT			12.00	months	120	E28	$8,882	$0	$0	$0	$0	$8,882
Subtotal							$8,882	$0	$0	$0	$0	$8,882
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$8,882**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$1,332	$0	$0	$0	$0	$1,332
--Total	**Project Management (S&M) (Annual)**				**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**

Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)

Memo: ***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
		CWI	*U.C. per ea*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Soil Monitoring			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	A No Longer Contained In Determination will be approved for all INTEC groundwater and perched water. The tank farm tanks will be clean closed. The RI/BRA showed that there was no risk from the RCRA constituents in the soil. Therefore a RCRA cap, post closure permit, or RCRA groundwater monitoring program will not be required.												
X12		CWI	*U.C. per ea*			*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION			1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896
U-60		CWI	*U.C. per ea*			*40*	*$40.07*	*1602.8*	*0*	*0*	*0*	*0*	*1602.8*
	RADIOLOGICAL CONTROL TECH			1.00	ea	40	U-60	$1,603	$0	$0	$0	$0	$1,603
		CWI	*U.C. per ea*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Groundwater Monitoring			1.00	ea	0		$0	$0	$0	$0	$0	$0
		CWI	*U.C. per ea*					*30260*	*0*	*1453*	*0*	*0*	*31713*
	Annual Well Monitoring, Including Report			1.00	ea	0		$30,260	$0	$1,453	$0	$0	$31,713
Memo:	Based on Group 5 DWP estimate file # 8530-DWP2-11B, escalated to 2006.												
		CWI	*U.C. per LS*		NM60	*40*	*$53.67*	*2146.8*	*0*	*1453*	*0*	*0*	*3609.8*
	Prepare TOS, Work Planning & Mobilization			1.00	LS	40	S15	$2,147	$0	$1,463	$0	$0	$3,610
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100045.												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Collect samples			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.												
S15		CWI	*U.C. per ea*			*12*	*$53.67*	*644.04*	*0*	*0*	*0*	*0*	*644.04*
	ANALYTICAL CHEMISTRY			1.00	ea	12	S15	$644	$0	$0	$0	$0	$644
T10		CWI	*U.C. per ea*			*8*	*$37.03*	*296.24*	*0*	*0*	*0*	*0*	*296.24*
	LABORATORY TECH			1.00	ea	8	T10	$296	$0	$0	$0	$0	$296
T15		CWI	*U.C. per ea*			*200*	*$29.84*	*5968*	*0*	*0*	*0*	*0*	*5968*
	ENVIRON/FIELD TECH			1.00	ea	200	T15	$5,968	$0	$0	$0	$0	$5,968
U16		CWI	*U.C. per ea*			*3*	*$36.61*	*109.83*	*0*	*0*	*0*	*0*	*109.83*
	FITTER			1.00	ea	3	U16	$110	$0	$0	$0	$0	$110
U76		CWI	*U.C. per ea*			*30*	*$33.36*	*1000.8*	*0*	*0*	*0*	*0*	*1000.8*
	CONSTRUCTION IRON WORKER (FORCE ACCT)			1.00	ea	30	U76	$1,001	$0	$0	$0	$0	$1,001

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)													
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***												
U84		CWI	*U.C. per ea*			*66*	*$31.36*	*2069.76*	*0*	*0*	*0*	*0*	*2069.76*
	CONSTRUCTION LABORER (FORCE ACCT)			1.00	ea	66	U84	$2,070	$0	$0	$0	$0	$2,070
X12		CWI	*U.C. per ea*			*26*	*$47.41*	*1232.66*	*0*	*0*	*0*	*0*	*1232.66*
	ENVIRONMENTAL RESTORATION			1.00	ea	26	X12	$1,233	$0	$0	$0	$0	$1,233
		CWI	*U.C. per LS*		NM80			*0*	*0*	*0*	*72274*	*0*	*72274*
	Sample Analysis			1.00	LS	0		$0	$0	$0	$72,274	$0	$72,274
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100047.												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	"Data Validation & L&V Report"			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.												
A02		CWI	*U.C. per ea*			*40*	*$19.98*	*799.2*	*0*	*0*	*0*	*0*	*799.2*
	DATA ENTRY			1.00	ea	40	A02	$799	$0	$0	$0	$0	$799
NRPR		CWI	*U.C. per hrs*		NRPR			*0*	*0*	*38.38*	*0*	*0*	*38.38*
	RECORDS MANAGEMENT			9.00	hrs	0		$0	$0	$345	$0	$0	$345
A25		CWI	*U.C. per ea*			*3*	*$25.58*	*76.74*	*0*	*0*	*0*	*0*	*76.74*
	OFFICE ADMINISTRATION/COORDINATION			1.00	ea	3	A25	$77	$0	$0	$0	$0	$77
S15		CWI	*U.C. per ea*			*35*	*$53.67*	*1878.45*	*0*	*0*	*0*	*0*	*1878.45*
	ANALYTICAL CHEMISTRY			1.00	ea	35	S15	$1,878	$0	$0	$0	$0	$1,878

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)												
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***											
S16		CWI	*U.C. per ea*		*34*	*$65.07*	*2212.38*	*0*	*0*	*0*	*0*	*2212.38*
	CHEMICAL SCIENCES		1.00	ea	34	S16	$2,212	$0	$0	$0	$0	$2,212
	Subtotal						$52,194	$0	$3,261	$72,274	$0	$127,730
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$127,730**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$7,829	$0	$489	$10,841	$0	$19,159
---Total	**Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)**				**577**		**$60,023**	**$0**	**$3,751**	**$83,115**	**$0**	**$146,889**

Site Information Database (CFLUP) (Annual)

Memo: ***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***

X12		CWI	*U.C. per ea*		*50*	*$47.41*	*2370.5*	*0*	*0*	*0*	*0*	*2370.5*
	ENVIRONMENTAL RESTORATION		1.00	ea	50	X12	$2,371	$0	$0	$0	$0	$2,371
NRPG		CWI	*U.C. per hrs*	NRPG			*0*	*0*	*58.69*	*0*	*0*	*58.69*
	WRITER/EDITOR		2.00	hrs	0		$0	$0	$117	$0	$0	$117

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Information Database (CFLUP) (Annual)												
Memo:	***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***											
S05		CWI	*U.C. per ea*		*8*	*$60.57*	*484.56*	*0*	*0*	*0*	*0*	*484.56*
GEOLOGY			1.00	ea	8	S05	$485	$0	$0	$0	$0	$485
Subtotal							$2,855	$0	$117	$0	$0	$2,972
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,972**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$428	$0	$18	$0	$0	$446
---Total Site Information Database (CFLUP) (Annual)					**58**		**$3,283**	**$0**	**$135**	**$0**	**$0**	**$3,418**
Annual Institutional Control Inspection												
Memo:	***Annual Inspection (Assessment). See WBS No. P.4.C1.03.02, ID # ERM3200010.***											
X12		CWI	*U.C. per ea*		*8*	*$47.41*	*379.28*	*0*	*0*	*0*	*0*	*379.28*
ENVIRONMENTAL RESTORATION			1.00	ea	8	X12	$379	$0	$0	$0	$0	$379
Memo: For assessment												
S05		CWI	*U.C. per ea*		*32*	*$60.57*	*1938.24*	*0*	*0*	*0*	*0*	*1938.24*
GEOLOGY			1.00	ea	32	S05	$1,938	$0	$0	$0	$0	$1,938
Memo: For assessment												
Subtotal							$2,318	$0	$0	$0	$0	$2,318
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,318**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$348	$0	$0	$0	$0	$348
---Total Annual Institutional Control Inspection					**40**		**$2,665**	**$0**	**$0**	**$0**	**$0**	**$2,665**

B-225

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (IC) (Annual)													
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***												
E28		CWI	*U.C. per hrs*			*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
	PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882
	Subtotal							$8,882	$0	$0	$0	$0	$8,882
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$8,882**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$1,332	$0	$0	$0	$0	$1,332
---Total	**Project Management (IC) (Annual)**					**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**
Remedy Failure or Replacement (Annual)													
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***												
U21		CWI	*U.C. per ea*			*40*	*$21.47*	*858.8*	*0*	*0*	*0*	*0*	*858.8*
	LABORER			1.00	ea	40	U21	$859	$0	$0	$0	$0	$859
X12		CWI	*U.C. per ea*			*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION			1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Remedy Failure or Replacement (Annual)													
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***												
NM80	OTHER - SERVICES	CWI	*U.C. per Lot*	1.00	NM80 Lot	0		*0* $0	*0* $0	*0* $0	*800* $800	*0* $0	*800* $800
	Subtotal							$2,755	$0	$0	$800	$0	$3,555
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$3,555**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$413	$0	$0	$120	$0	$533
---Total	**Remedy Failure or Replacement (Annual)**					**80**		**$3,168**	**$0**	**$0**	**$920**	**$0**	**$4,088**
Infiltration Barrier Maintenance													
	Annual Maintenance of Barrier @ 3% of Construction Costs		*U.C. per $*	3,544,897.06	$	0		*0* $0	*0* $0	*0* $0	*0.03* $106,347	*0* $0	*0.03* $106,347
	Memo: Total replacement of barrier in approximately 30 years.												
	Subtotal							$0	$0	$0	$106,347	$0	$106,347
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$106,347**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$15,952	$0	$15,952
—Total	**Infiltration Barrier Maintenance**					**0**		**$0**	**$0**	**$0**	**$122,299**	**$0**	**$122,299**
Five Year Reviews													
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***												
	"Assemble Data"	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews													
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***												
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*84* 84	*$72.73* Z09	*6109.32* $6,109	*0* $0	*0* $0	*0* $0	*0* $0	*6109.32* $6,109
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS*	1.00	NM60 LS	0		*0* $0	*0* $0	*2398* $2,398	*0* $0	*0* $0	*2398* $2,398
	Prepare Draft	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
NRPF	ELECTRONIC PUBLICATIONS	CWI	*U.C. per hrs*	5.00	NRPF hrs	0		*0* $0	*0* $0	*36.17* $181	*0* $0	*0* $0	*36.17* $181
NRPG	WRITER/EDITOR	CWI	*U.C. per hrs*	28.00	NRPG hrs	0		*0* $0	*0* $0	*58.69* $1,643	*0* $0	*0* $0	*58.69* $1,643
T08	ILLUSTRATOR/ARTIST	CWI	*U.C. per ea*	1.00	ea	*4* 4	*$36.51* T08	*146.04* $146	*0* $0	*0* $0	*0* $0	*0* $0	*146.04* $146
X12	ENVIRONMENTAL RESTORATION	CWI	*U.C. per ea*	1.00	ea	*315* 315	*$47.41* X12	*14934.15* $14,934	*0* $0	*0* $0	*0* $0	*0* $0	*14934.15* $14,934
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*73* 73	*$72.73* Z09	*5309.29* $5,309	*0* $0	*0* $0	*0* $0	*0* $0	*5309.29* $5,309
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS*	1.00	NM60 LS	0		*0* $0	*0* $0	*8747* $8,747	*0* $0	*0* $0	*8747* $8,747
NM80	OTHER - SERVICES	CWI	*U.C. per LS*	1.00	NM80 LS	0		*0* $0	*0* $0	*0* $0	*155* $155	*0* $0	*155* $155
	Establish Team	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Z09	SUPERVISOR, SCI/ENG FUNC	CWI	*U.C. per ea*	1.00	ea	*54* 54	*$72.73* Z09	*3927.42* $3,927	*0* $0	*0* $0	*0* $0	*0* $0	*3927.42* $3,927

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews												
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***											
NM60	OTHER-DIRECT PURCHASES	CWI	*U.C. per LS* 1.00	NM60 LS	0		*0* $0	*0* $0	*1527* $1,527	*0* $0	*0* $0	*1527* $1,527
	Subtotal						$30,426	$0	$14,496	$155	$0	$45,077
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads		0.00%				$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$45,077**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$4,564	$0	$2,174	$23	$0	$6,762
---Total	**Five Year Reviews**				**530**		**$34,990**	**$0**	**$16,671**	**$178**	**$0**	**$51,839**

Update Institutional Controls Plan (Annual)

Memo: ***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***

X12	ENVIRONMENTAL RESTORATION	CWI	*U.C. per ea* 1.00	ea	*260* 260	*$47.41* X12	*12326.6* $12,327	*0* $0	*0* $0	*0* $0	*0* $0	*12326.6* $12,327
Memo:	For prep, tech edit, doc control.											
NRPG	WRITER/EDITOR	CWI	*U.C. per hrs* 60.00	NRPG hrs	0		*0* $0	*0* $0	*58.69* $3,521	*0* $0	*0* $0	*58.69* $3,521
Memo:	For tech edit											
NRPR	RECORDS MANAGEMENT	CWI	*U.C. per hrs* 18.00	NRPR hrs	0		*0* $0	*0* $0	*38.38* $691	*0* $0	*0* $0	*38.38* $691
Memo:	For prep doc control.											
S05	GEOLOGY	CWI	*U.C. per ea* 1.00	ea	*14* 14	*$60.57* S05	*847.98* $848	*0* $0	*0* $0	*0* $0	*0* $0	*847.98* $848
Memo:	ORB review											

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4a: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4a***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Update Institutional Controls Plan (Annual)												
Memo:	***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***											
X12	CWI	*U.C. per ea*			22	*$47.41*	*1043.02*	*0*	*0*	*0*	*0*	*1043.02*
	ENVIRONMENTAL RESTORATION		1.00	ea	22	X12	$1,043	$0	$0	$0	$0	$1,043
Memo:	Incorporate ORB, agency comments.											
	Subtotal						$14,218	$0	$4,212	$0	$0	$18,430
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$18,430**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$2,133	$0	$632	$0	$0	$2,764
—Total	**Update Institutional Controls Plan (Annual)**				**296**		**$16,350**	**$0**	**$4,844**	**$0**	**$0**	**$21,194**
	Subtotal	OU 3-14 FS ALTERNATIVE 4a: INST CTRLS, MONITORING,					$3,345,295	$478,131	$1,585,267	$5,051,620	$1,633,879	$12,094,192
	Sales Tax	SOURCE TREAT. & CONTAINMENT					$0	$0	$0	$0	$0	$0
	Overheads						$162,379	$114,291	$0	$985,209	$0	$1,261,878
	Subtotal Estimate						$0	$0	$0	$0	$0	$13,356,070
	Escalation						$482,192	$185,327	$784,903	$1,771,887	$616,000	$0
	Contingency											$3,840,309
	Total OU 3-14 FS ALTERNATIVE 4a: INST CTRLS, MONITORING, SOURCE TREAT. & CONTAINMENT				25,591		$3,989,866	$777,748	$2,370,170	$7,808,715	$2,249,879	$17,196,378

Material Costs where applicable include Idaho State Sales Tax

Summary Report

Project Name: *WAG 3*
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: *INTEC Tank Farm*
Project Number: *2966-M-4b*

ESTIMATE ELEMENT	Estimate Subtotal	Escalation	Contingency	TOTAL
		0.00%	27.17%	
Total Estimated Cost (TEC)	**$12,571,775**	**$0**	**$3,416,259**	**$15,988,034**
		0.00%	27.17%	
Total Cost	**$12,571,775**	**$0**	**$3,416,259**	**$15,988,034**
Rounded Total Cost (Rounded to the nearest $ 10000)				**$15,990,000**

		Remarks
Type of Estimate:	Project Support	E/T Cap Over Soils in the Central Zone and South Perimeter Area in 2035
Estimator:	J. Folker, 6-0322	In-Situ Grouting in CPP-31 in 2035
Checked By:		
Approved By:		

Project Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		Capital Costs	$12,163,699	$0	$3,355,047	27.58%	$15,518,746
		--Construction Activities	**$10,221,596**	**$0**	**$3,355,047**	**32.82%**	**$13,576,643**
		---Mobilization/Demobilization	**$522,116**	**$0**	**$205,870**	**39.43%**	**$727,986**
		-----Construction Equipment	$40,000	$0	$15,772	39.43%	$55,772
		-----Submittals/Implementation Plans	$482,116	$0	$190,098	39.43%	$672,214
		-------Operational Plans	$149,660	$0	$59,011	39.43%	$208,671
		-------Develop MSA Plan	$41,228	$0	$16,256	39.43%	$57,484
		-------Develop ORR POA & Imp. Plan	$41,228	$0	$16,256	39.43%	$57,484
		-------Final Inspection Report	$250,000	$0	$98,575	39.43%	$348,575
		-----Site Security Personnel	$0	$0	$0	40.00%	$0
		---Monitoring, Sampling, Testing, and Analysis (Capital)	**$0**	**$0**	**$0**	**0.00%**	**$0**
		---Remediation	**$6,192,366**	**$0**	**$1,395,620**	**22.54%**	**$7,587,986**
		-----Surface Water Collection or Containment	$106,347	$0	$37,221	35.00%	$143,568
		-------Drainage Ditches & Culverts (2035)	$106,347	$0	$37,221	35.00%	$143,568
		-----Soil Excavation/Clean Backfill	$313,766	$0	$203,948	65.00%	$517,714
		-------North Perimeter Area Excavate/Backfill/Dispose (2012)	$313,766	$0	$203,948	65.00%	$517,714
		-----Cap or Cover	$5,772,253	$0	$1,154,451	20.00%	$6,926,703
		-------Infiltration Barrier (2012)	$2,562,278	$0	$512,456	20.00%	$3,074,733
		-------Infiltration Barrier (2035)	$99,998	$0	$20,000	20.00%	$119,998
		-------Tank Farm ET Cover Central Zone (2035)	$2,472,747	$0	$494,549	20.00%	$2,967,296
		-------Tank Farm ET Cover South Perimeter Area (2035)	$637,230	$0	$127,446	20.00%	$764,676
		---Treatment and Disposal	**$3,507,114**	**$0**	**$1,753,557**	**50.00%**	**$5,260,671**
		-----On-Site Treatment (2035)	$3,507,114	$0	$1,753,557	50.00%	$5,260,671
		-------CPP-31 In-Situ Grouting (2035)	$3,507,114	$0	$1,753,557	50.00%	$5,260,671
		---------Subcontractor Grouting Operations	$3,507,114	$0	$1,753,557	50.00%	$5,260,671

Project Summary Report

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		————Mobilization and Subcontractor Preparations	$300,000	$0	$150,000	50.00%	$450,000
		----------Subcontractor Equipment Procurement	$540,000	$0	$270,000	50.00%	$810,000
		----------Grout Procurement and Delivery	$1,256,112	$0	$628,056	50.00%	$1,884,169
		————Move Thrust Block Assembly	$162,479	$0	$81,240	50.00%	$243,719
		----------Grout Injection	$152,974	$0	$76,487	50.00%	$229,460
		----------Maintenance	$270,296	$0	$135,148	50.00%	$405,443
		----------Shut-Down/Demobilization	$15,612	$0	$7,806	50.00%	$23,418
		————General Subcontract Costs	$110,386	$0	$55,193	50.00%	$165,578
		----------Disposal	$699,256	$0	$349,628	50.00%	$1,048,883
		--Professional/Technical Services (Capital)	$1,942,103	$0	$0	0.00%	$1,942,103
		----Project Management (Capital)	$511,080	$0	$0	0.00%	$511,080
		----Remedial Design/Remedial Action Work Plan	$817,728	$0	$0	0.00%	$817,728
		----Construction Management (Capital)	$613,296	$0	$0	0.00%	$613,296
		Operational and Maintenance (O&M) Costs	$234,667	$0	$35,200	15.00%	$269,867
		--O&M Activities	$83,882	$0	$12,582	15.00%	$96,465
		----Extraction, Containment, or Treatment Systems	$75,000	$0	$11,250	15.00%	$86,250
		----Project Management (O&M) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		--Surveillance and Monitoring (S&M)	$136,612	$0	$20,492	15.00%	$157,104
		----Project Management (S&M) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		----Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)	$127,730	$0	$19,159	15.00%	$146,889
		--Institutional Controls (IC)	$14,172	$0	$2,126	15.00%	$16,298
		----Site Information Database (CFLUP) (Annual)	$2,972	$0	$446	15.00%	$3,418
		----Annual Institutional Control Inspection	$2,318	$0	$348	15.00%	$2,665

Project Summary Report

Project Name: *WAG 3*
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: *INTEC Tank Farm*
Estimate Number: *2966-M-4b*

Client: *L. Cahn, 6-3080*
Prepared By: *J. Folker, 6-0322*
Estimate Type: *Project Support*

Level	Group	Description	Estimate Subtotal	Escalation	Contingency	Contingency %	TOTAL
		----Project Management (IC) (Annual)	$8,882	$0	$1,332	15.00%	$10,215
		Periodic Costs	$173,409	$0	$26,011	15.00%	$199,421
		--Construction/O&M Activities (Periodic)	$109,902	$0	$16,485	15.00%	$126,387
		---Remedy Failure or Replacement (Annual)	$3,555	$0	$533	15.00%	$4,088
		----Infiltration Barrier Maintenance	$106,347	$0	$15,952	15.00%	$122,299
		--Professional/Technical Services (Periodic)	$45,077	$0	$6,762	15.00%	$51,839
		---Five Year Reviews	$45,077	$0	$6,762	15.00%	$51,839
		--Update Institutional Controls Plan (Annual)	$18,430	$0	$2,764	15.00%	$21,194
Total	OU 3-14 FS ALTERNATIVE 4b: INST CTRLS, MONITORING, SOURCE TREAT. & CONTAINMENT		$12,571,775	$0	$3,416,259	27.17%	$15,988,034

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Construction Equipment												
Memo:	***Assume 20 pieces of equipment at $1,000 each.***											
		GEN / *U.C. per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Mobilize Equipment for Cap		1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.											
		GEN / *U.C. per Ls*					*0*	*0*	*0*	*0*	*20000*	*20000*
	Demobilize Equipment for Cap		1.00	Ls	0		$0	$0	$0	$0	$20,000	$20,000
Memo:	Assume 20 pieces of equipment at $1,000 each.											
	Subtotal						$0	$0	$0	$0	$40,000	$40,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$40,000**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$15,772	$15,772
—Total	**Construction Equipment**				**0**		**$0**	**$0**	**$0**	**$0**	**$55,772**	**$55,772**
Operational Plans												
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***											
		CWI / *U.C. per YR*					*0*	*0*	*0*	*37573*	*0*	*37573*
	Operational & Layout plan (cost per year)		1.00	YR	0		$0	$0	$0	$37,573	$0	$37,573
Memo:	The operation and layout plan will be a annually produced external document that will be used as a basis for budget. This document will be reviewed through the ORB process prior to state, EPA, and DOE review. (cost from previous ISG estimate)											
		CWI / *U.C. per YR*					*0*	*0*	*0*	*6530*	*0*	*6530*
	Rad monitoring & control plan (cost per year)		1.00	YR	0		$0	$0	$0	$6,530	$0	$6,530
Memo:	The radiation monitoring and control plan will be a annually produced document that will utelize pre-existing Rad Con procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)											
		CWI / *U.C. per YR*					*0*	*0*	*0*	*5557*	*0*	*5557*
	HI exposure & sample plan (cost per year)		1.00	YR	0		$0	$0	$0	$5,557	$0	$5,557
Memo:	The industrial hygene exposure and sampling plan will be a annually produced document that will utilize pre-existing IH procedures. Annual updates are assumed to require the same effort as the initial document. (cost from previous ISG estimate)											

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Operational Plans													
Memo:	***Operational plans include TPR's, JSA's, Training Plans, Operation and Lay Out Plans, RAD Monitoring and Control Plans, IH Exposure and Sampling Plans, Well Abondonment Plans, Handling/Transport/Disposal Plans, Site Security Plans, and Quality Control Plans.***												
Training Plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*50000* $50,000	*0* $0	*50000* $50,000
Quality Control Plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*50000* $50,000	*0* $0	*50000* $50,000
Subtotal								$0	$0	$0	$149,660	$0	$149,660
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$149,660**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$0	$0	$0	$59,011	$0	$59,011
—Total Operational Plans						0		**$0**	**$0**	**$0**	**$208,671**	**$0**	**$208,671**

Develop MSA Plan

Memo: ***The MSA plan will be a annually produced document. The cost associated with this plan includes generation of the plan, project review of the plan, document finilization, and generation of a checklist. (cost from previous ISG estimate).***

MSA plan		CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*41228* $41,228	*0* $0	*41228* $41,228
Subtotal								$0	$0	$0	$41,228	$0	$41,228
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$41,228**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$0	$0	$0	$16,256	$0	$16,256
—Total Develop MSA Plan						0		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Develop ORR POA & Imp. Plan													
Memo:	***The ORR Plan Of Action (POA) and the implementation plan's combined cost is assumed to equal the the MSA plan cost.***												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*41228*	*0*	*41228*
	ORR POA & imp plan			1.00	LS	0		$0	$0	$0	$41,228	$0	$41,228
	Subtotal							$0	$0	$0	$41,228	$0	$41,228
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$41,228**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$16,256	$0	$16,256
---Total	**Develop ORR POA & Imp. Plan**					**0**		**$0**	**$0**	**$0**	**$57,484**	**$0**	**$57,484**
Final Inspection Report													
Memo:	***Cost allowance is based on the PERA for WAG 7 SDA (INEEL/EXT-02-01258) Rev-0.***												
		CWI	*U.C. per LS*					*250000*	*0*	*0*	*0*	*0*	*250000*
	FINAL INSPECTION REPORT			1.00	LS	0		$250,000	$0	$0	$0	$0	$250,000
	Subtotal							$250,000	$0	$0	$0	$0	$250,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$250,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$98,575	$0	$0	$0	$0	$98,575
---Total	**Final Inspection Report**					**0**		**$348,575**	**$0**	**$0**	**$0**	**$0**	**$348,575**
Site Security Personnel													
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***												
		CWI	*U.C. per YR*					*0.01*	*0*	*0*	*0*	*0*	*0.01*
	Security Support @ Site Access Gate			1.00	YR	0		$0	$0	$0	$0	$0	$0

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Security Personnel												
Memo:	***It is assumed that INL will maintain security personnel required for construction activities.***											
	Subtotal						$0	$0	$0	$0	$0	$0
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$0**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Site Security Personnel**				0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Monitoring, Sampling, Testing, and Analysis (Capital)												
		U.C. per LS					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Monitoring, Sampling, Testing and Analysis		1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Analytical laboratory capital equipment costs will be paid for by RAL											
	Subtotal						$0	$0	$0	$0	$0	$0
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$0**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
—Total	**Monitoring, Sampling, Testing, and Analysis (Capital)**				0		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Drainage Ditches & Culverts (2035)												
		U.C. per LF					*0*	*0*	*0*	*69.4*	*0*	*69.4*
	GEN											
	Drainage Ditches		1,000.00	LF	0		$0	$0	$0	$69,400	$0	$69,400
Memo:	Per estimate file # 2956-E, 236 CY concrete/1700 LF = 0.1388 CY/LF x $500/LF = $69.40/LF. Ditches on south side only in 2035.											

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Drainage Ditches & Culverts (2035)													
		GEN	*U.C. per LF*					*0*	*0*	*0*	*43.4*	*0*	*43.4*
	Culverts			300.00	LF	0		$0	$0	$0	$13,020	$0	$13,020
Memo: Per estimate file # 2956-E (FY-2000), 30" CMP @ $40/LF installed directs. Escalated 9.06% = $43.40 directs. Cuverts on south side only in 2035.													
	Subtotal							$0	$0	$0	$82,420	$0	$82,420
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$0	$0	$0	$23,927	$0	$23,927
	Subtotal Estimate												**$106,347**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$37,221	$0	$37,221
—Total Drainage Ditches & Culverts (2035)						0		**$0**	**$0**	**$0**	**$143,568**	**$0**	**$143,568**

North Perimeter Area Excavate/Backfill/Dispose (2012)

Memo: ***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***

		GEN	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	"Excavation"			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo: Assume 0.5 CY/min. cycle time to excavate, swing, walk, load into Stoller rolloffs, return. 50 min hour x 7 hr day. 350 min x 0.5 CY/min = 175 CY/day. 3,300 CY/175 CY/Day = 20 Days. This cycle time accounts for survey time.													
00E1014		GEN	*U.C. per ea*			*200*		*0*	*27084*	*0*	*0*	*0*	*27084*
	Cat 350 3 cy Hoe			1.00	ea	200	00E1014	$0	$27,084	$0	$0	$0	$27,084
00E2050		GEN	*U.C. per ea*			*200*		*0*	*6276*	*0*	*0*	*0*	*6276*
	4000 gal Water Truck			1.00	ea	200	00E2050	$0	$6,276	$0	$0	$0	$6,276
CN-EQLT		GEN	*U.C. per ea*			*200*	*$38.20*	*7640*	*0*	*0*	*0*	*0*	*7640*
	EQUIPMENT OPERATOR LIGHT EQUIP GROUP 4(<4 CY)			1.00	ea	200	CN-EQLT	$7,640	$0	$0	$0	$0	$7,640
CN-TRHV		GEN	*U.C. per ea*			*200*	*$37.47*	*7494*	*0*	*0*	*0*	*0*	*7494*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			1.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*200*	*$35.21*	*7042*	*0*	*0*	*0*	*0*	*7042*
	LABORER			2.00	ea	400	CN-LABR	$14,084	$0	$0	$0	$0	$14,084

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)													
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***												
	Transport Soils to ICDF	STOLLER	*U.C. per TONS*	5,709.00	TONS	0		*0* $0	*0* $0	*0* $0	*16* $91,344	*0* $0	*16* $91,344
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, INTEC transportation costs. 1.73 tons/CY negotiated factor.												
	Fill	GEN	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0
Memo:	Import 3,300*1.1 = 3,630 CY material from Rye Grass Flats (10 miles one way). 3,630 CY/10 CY/Load = 363 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 363 Loads/7 Loads/Day/Truck = 52 Days/Truck. 52 Days/Truck/4 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0940	*0* $0	*5697.9* $5,698	*0* $0	*0* $0	*0* $0	*5697.9* $5,698
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*130* 520	00E2010	*0* $0	*4088.5* $16,354	*0* $0	*0* $0	*0* $0	*4088.5* $16,354
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E2050	*0* $0	*4079.4* $4,079	*0* $0	*0* $0	*0* $0	*4079.4* $4,079
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0912	*0* $0	*8563.1* $8,563	*0* $0	*0* $0	*0* $0	*8563.1* $8,563
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*130* 130	00E0630	*0* $0	*3441.1* $3,441	*0* $0	*0* $0	*0* $0	*3441.1* $3,441
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*130* 390	*$39.39* CN-ENGR	*5120.7* $15,362	*0* $0	*0* $0	*0* $0	*0* $0	*5120.7* $15,362
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*130* 650	*$37.47* CN-TRHV	*4871.1* $24,356	*0* $0	*0* $0	*0* $0	*0* $0	*4871.1* $24,356
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$35.21* CN-LABR	*4577.3* $9,155	*0* $0	*0* $0	*0* $0	*0* $0	*4577.3* $9,155
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$37.19* CN-SURV	*4834.7* $9,669	*0* $0	*0* $0	*0* $0	*0* $0	*4834.7* $9,669

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
North Perimeter Area Excavate/Backfill/Dispose (2012)													
Memo:	***North perimeter area = 22,276 SF (from OU 3-14 FS Map, dated 3/15/06). 22,276 x 4 ft deep excavation = 89,104 CF. 89,104 CF/27 CF/CY = 3,300 CY.***												
	Reseeding	GEN	*U.C. per ACRES*	0.50	ACRES	0		*0* $0	*0* $0	*0* $0	*3000* $1,500	*0* $0	*3000* $1,500
	Characterization of North Perimeter	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*15000* $15,000	*0* $0	*15000* $15,000
Memo:	Assume cores would be collected on a random grid from the north perimeter area at 10 locations to a depth of 4-ft analyzed for Cs-137 at RESL. If more than 50% exceeded the PRG we would do no more characterization and would assume all of the soil was contaminated at concentrations above the PRG and would dig all of it up for disposal at ICDF. Assume cores would be analyzed in two-ft increments. Under this assumption sampling and analysis for 20 soil samples for Cs-137 will be done. Direct-push rig and split-spoons will be used. $5,000 for analytical services, validation, adders, and SAM services, for 20 samples. For retrieving samples, 2 person crew and equipment @ $250/hr for 1 week. Total = $5K + $10K = $15K.												
	Subtotal							$87,760	$71,496	$0	$107,844	$0	$267,099
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		17.47%					$25,477	$20,755	$0	$435	$0	$46,667
	Subtotal Estimate												**$313,766**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$73,604	$59,963	$0	$70,382	$0	$203,948
--Total	**North Perimeter Area Excavate/Backfill/Dispose (2012)**					**2,360**		**$186,840**	**$152,214**	**$0**	**$178,661**	**$0**	**$517,714**
Infiltration Barrier (2012)													
	Grading and Preparation	GEN	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*100000* $100,000	*0* $0	*100000* $100,000
	Low Permeability Asphalt Cap for Infiltration Barrier-North Perimeter Area	GEN	*U.C. per ACRES*	0.51	ACRES	0		*0* $0	*0* $0	*0* $0	*210000* $107,100	*0* $0	*210000* $107,100
Memo:	Per "Malcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres												
	Low Permeability Asphalt Cap for Infiltration Barrier-Central Zone Area	GEN	*U.C. per ACRES*	4.07	ACRES	0		*0* $0	*0* $0	*0* $0	*210000* $854,700	*0* $0	*210000* $854,700
Memo:	Per "Malcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. 177,216 SF (per CWI Design Engr) = 4.07 Acres												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Infiltration Barrier (2012)													
	Low Permeability Asphalt Cap for Infiltration Barrier-South Perimeter Area	GEN	*U.C. per ACRES*	0.90	ACRES	0		*0* $0	*0* $0	*0* $0	*210000* $189,000	*0* $0	*210000* $189,000
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. South perimeter area = 39,181 SF = 0.90 acres												
	Low Permeability Asphalt Cap for Infiltration Barrier-PRCZ Area	GEN	*U.C. per ACRES*	3.50	ACRES	0		*0* $0	*0* $0	*0* $0	*210000* $735,000	*0* $0	*210000* $735,000
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. PRCZ Perimeter= 151,853 SF = 3.5 acres												
	Subtotal							$0	$0	$0	$1,985,800	$0	$1,985,800
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$0	$0	$0	$576,478	$0	$576,478
	Subtotal Estimate												**$2,562,278**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$512,456	$0	$512,456
—Total	**Infiltration Barrier (2012)**					**0**		**$0**	**$0**	**$0**	**$3,074,733**	**$0**	**$3,074,733**
Infiltration Barrier (2035)													
	Grading and Preparation	GEN	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*25000* $25,000	*0* $0	*25000* $25,000

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Infiltration Barrier (2035)												
		GEN	*U.C. per ACRES*				*0*	*0*	*0*	*210000*	*0*	*210000*
	Low Permeability Asphalt Cap for Infiltration Barrier-CPP-15		0.25	ACRES	0		$0	$0	$0	$52,500	$0	$52,500
Memo:	Per "Matcon" verbal quote on March 1, 2005, from R. Garrett, installed cost for 4" thick membrane at non-DOE site is $140,000/acre. 50% INL factor added results in $210,000/acre. North perimeter area = 22,276 SF = 0.51 acres											
	Subtotal						$0	$0	$0	$77,500	$0	$77,500
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	29.03%					$0	$0	$0	$22,498	$0	$22,498
	Subtotal Estimate											**$99,998**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$20,000	$0	$20,000
—Total	**Infiltration Barrier (2035)**				**0**		**$0**	**$0**	**$0**	**$119,998**	**$0**	**$119,998**

Tank Farm ET Cover Central Zone (2035)

Memo: ***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***

		GEN	*U.C. per CY*				*0*	*0*	*0*	*54.05*	*0*	*54.05*
	D&D Infiltration Barrier		2,188.00	CY	0		$0	$0	$0	$118,261	$0	$118,261
Memo:	Barrier is 177,216 S.F. Volume = 177,216 x 4/12 (thk) = 59,072 CF/27 CF/CY = 2,188 C.Y. Per RS Means Environmental Remediation Cost Data 2003 Edition, escalated to 2006 (9.06%), Demolition, Pavements, unit cost is $54.05/CY. Cost includes disposal.											
		GEN	*U.C. per CY*				*0*	*0*	*0*	*40*	*0*	*40*
	Grading Fill-Central Area		18,372.00	CY	0		$0	$0	$0	$734,880	$0	$734,880
Memo:	Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.											
		GEN	*U.C. per ea*				*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-Central Area"		1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.											
		GEN	*U.C. per CY*				*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel		3,283.00	CY	0		$0	$0	$0	$82,075	$0	$82,075
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.											

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940		GEN	*U.C. per ea*			*40*		*0*	*1753.2*	*0*	*0*	*0*	*1753.2*
	Cat 950 4 cy Loader			1.00	ea	40	00E0940	$0	$1,753	$0	$0	$0	$1,753
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*40*		*0*	*1258*	*0*	*0*	*0*	*1258*
	12 cy End Dump			4.00	ea	160	00E2010	$0	$5,032	$0	$0	$0	$5,032
00E2050		GEN	*U.C. per ea*			*40*		*0*	*1255.2*	*0*	*0*	*0*	*1255.2*
	4000 gal Water Truck			1.00	ea	40	00E2050	$0	$1,255	$0	$0	$0	$1,255
00E0912		GEN	*U.C. per ea*			*40*		*0*	*2634.8*	*0*	*0*	*0*	*2634.8*
	Cat 14 Grader			1.00	ea	40	00E0912	$0	$2,635	$0	$0	$0	$2,635
00E0630		GEN	*U.C. per ea*			*40*		*0*	*1058.8*	*0*	*0*	*0*	*1058.8*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	40	00E0630	$0	$1,059	$0	$0	$0	$1,059
CN-ENGR		GEN	*U.C. per ea*			*40*	*$39.39*	*1575.6*	*0*	*0*	*0*	*0*	*1575.6*
	OPERATING ENGINEER			3.00	ea	120	CN-ENGR	$4,727	$0	$0	$0	$0	$4,727
CN-TRHV		GEN	*U.C. per ea*			*40*	*$37.47*	*1498.8*	*0*	*0*	*0*	*0*	*1498.8*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	200	CN-TRHV	$7,494	$0	$0	$0	$0	$7,494
CN-LABR		GEN	*U.C. per ea*			*40*	*$35.21*	*1408.4*	*0*	*0*	*0*	*0*	*1408.4*
	LABORER			2.00	ea	80	CN-LABR	$2,817	$0	$0	$0	$0	$2,817
CN-SURV		GEN	*U.C. per ea*			*40*	*$37.19*	*1487.6*	*0*	*0*	*0*	*0*	*1487.6*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	80	CN-SURV	$2,975	$0	$0	$0	$0	$2,975
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"1'-0" Cobble Layer-Central Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 1.0 = 177,216 CF/27 CF/CY = 6564 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*40*	*0*	*40*
	Cobble Stone-Central Area			6,564.00	CY	0		$0	$0	$0	$262,560	$0	$262,560
Memo:	Cobble stone material cost delivered (local vendor quote). Deliver 6,564 CY cobble from town, to borrow pile, 1/2 mile from job site. 6,564 CY/10 CY/Load = 656 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 656 Loads/24 Loads/Day/Truck = 28 Days/Truck. 28 Days/Truck/4 Trucks = 7 Days. Equipment costs from Blue Book.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*70* 70	00E0940	*0* $0	*3068.1* $3,068	*0* $0	*0* $0	*0* $0	*3068.1* $3,068
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*70* 280	00E2010	*0* $0	*2201.5* $8,806	*0* $0	*0* $0	*0* $0	*2201.5* $8,806
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*70* 70	00E2050	*0* $0	*2196.6* $2,197	*0* $0	*0* $0	*0* $0	*2196.6* $2,197
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*70* 70	00E0912	*0* $0	*4610.9* $4,611	*0* $0	*0* $0	*0* $0	*4610.9* $4,611
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*70* 70	00E0630	*0* $0	*1852.9* $1,853	*0* $0	*0* $0	*0* $0	*1852.9* $1,853
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*70* 210	*$39.39* CN-ENGR	*2757.3* $8,272	*0* $0	*0* $0	*0* $0	*0* $0	*2757.3* $8,272
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*70* 350	*$37.47* CN-TRHV	*2622.9* $13,115	*0* $0	*0* $0	*0* $0	*0* $0	*2622.9* $13,115
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*70* 140	*$35.21* CN-LABR	*2464.7* $4,929	*0* $0	*0* $0	*0* $0	*0* $0	*2464.7* $4,929
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*70* 140	*$37.19* CN-SURV	*2603.3* $5,207	*0* $0	*0* $0	*0* $0	*0* $0	*2603.3* $5,207
	6" Gravel Layer-Central Area	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3283 CY.												
	Pea Gravel	GEN	*U.C. per CY*	3,283.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $82,075	*0* $0	*25* $82,075
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (3,283 CY) gravel from town, to borrow pile, 1/2 mile from job site. 3,280 CY/10 CY/Load = 328 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 328 Loads/24 Loads/Day/Truck = 14 Days/Truck. 14 Days/Truck/4 Trucks = 4 Days. Equipment costs from Blue Book.												

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0940	*0* $0	*1753.2* $1,753	*0* $0	*0* $0	*0* $0	*1753.2* $1,753
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*40* 160	00E2010	*0* $0	*1258* $5,032	*0* $0	*0* $0	*0* $0	*1258* $5,032
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E2050	*0* $0	*1255.2* $1,255	*0* $0	*0* $0	*0* $0	*1255.2* $1,255
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0912	*0* $0	*2634.8* $2,635	*0* $0	*0* $0	*0* $0	*2634.8* $2,635
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*40* 40	00E0630	*0* $0	*1058.8* $1,059	*0* $0	*0* $0	*0* $0	*1058.8* $1,059
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*40* 120	*$39.39* CN-ENGR	*1575.6* $4,727	*0* $0	*0* $0	*0* $0	*0* $0	*1575.6* $4,727
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*40* 200	*$37.47* CN-TRHV	*1498.8* $7,494	*0* $0	*0* $0	*0* $0	*0* $0	*1498.8* $7,494
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*40* 80	*$35.21* CN-LABR	*1408.4* $2,817	*0* $0	*0* $0	*0* $0	*0* $0	*1408.4* $2,817
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*40* 80	*$37.19* CN-SURV	*1487.6* $2,975	*0* $0	*0* $0	*0* $0	*0* $0	*1487.6* $2,975
	3.5' USCS Soil Type ML or CL Central Zone	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 3.5 = 620,256 CF/27 CF/CY = 22,972 CY. Import 3.5' (22,972 CY) material from Rye Grass Flats (10 miles one way). 22,972 CY/10 CY/Load = 2,297 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 2,297 Loads/7 Loads/Day/Truck = 328 Days/Truck. 328 Days/Truck/8 Trucks = 41 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*410* 410	00E0940	*0* $0	*17970.3* $17,970	*0* $0	*0* $0	*0* $0	*17970.3* $17,970
Memo:	Loader at material source.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	8.00	ea	*410* 3,280	00E2010	*0* $0	*12894.5* $103,156	*0* $0	*0* $0	*0* $0	*12894.5* $103,156
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*410* 410	00E2050	*0* $0	*12865.8* $12,866	*0* $0	*0* $0	*0* $0	*12865.8* $12,866
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*410* 410	00E0912	*0* $0	*27006.7* $27,007	*0* $0	*0* $0	*0* $0	*27006.7* $27,007
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*410* 410	00E0630	*0* $0	*10852.7* $10,853	*0* $0	*0* $0	*0* $0	*10852.7* $10,853
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*410* 1,230	*$39.39* CN-ENGR	*16149.9* $48,450	*0* $0	*0* $0	*0* $0	*0* $0	*16149.9* $48,450
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	9.00	ea	*410* 3,690	*$37.47* CN-TRHV	*15362.7* $138,264	*0* $0	*0* $0	*0* $0	*0* $0	*15362.7* $138,264
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*410* 820	*$35.21* CN-LABR	*14436.1* $28,872	*0* $0	*0* $0	*0* $0	*0* $0	*14436.1* $28,872
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*410* 820	*$37.19* CN-SURV	*15247.9* $30,496	*0* $0	*0* $0	*0* $0	*0* $0	*15247.9* $30,496
	"6" Topsoil with Gravel Admix Central Zone"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover central area = 177,216 SF (Qty from CWI Design Engineering). Volume = 177,216 x 0.5 = 88,608 CF/27 CF/CY = 3282 CY. Import 3/4 of 6" lift (2462 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.											
	"USCS Soil Type ML or CL"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	For rye grass flats soil, 2462 CY/10 CY/Load = 246 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 246 Loads/7 Loads/Day/Truck = 35 Days/Truck. 35 Days/Truck/4 Trucks = 9 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E0940	*0* $0	*3944.7* $3,945	*0* $0	*0* $0	*0* $0	*3944.7* $3,945
Memo:	Loader at material source.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*90* 360	00E2010	*0* $0	*2830.5* $11,322	*0* $0	*0* $0	*0* $0	*2830.5* $11,322
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E2050	*0* $0	*2824.2* $2,824	*0* $0	*0* $0	*0* $0	*2824.2* $2,824
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E0912	*0* $0	*5928.3* $5,928	*0* $0	*0* $0	*0* $0	*5928.3* $5,928
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*90* 90	00E0630	*0* $0	*2382.3* $2,382	*0* $0	*0* $0	*0* $0	*2382.3* $2,382
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*90* 270	*$39.39* CN-ENGR	*3545.1* $10,635	*0* $0	*0* $0	*0* $0	*0* $0	*3545.1* $10,635
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*90* 450	*$37.47* CN-TRHV	*3372.3* $16,862	*0* $0	*0* $0	*0* $0	*0* $0	*3372.3* $16,862
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*90* 180	*$35.21* CN-LABR	*3168.9* $6,338	*0* $0	*0* $0	*0* $0	*0* $0	*3168.9* $6,338
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*90* 180	*$37.19* CN-SURV	*3347.1* $6,694	*0* $0	*0* $0	*0* $0	*0* $0	*3347.1* $6,694
	3/8" Pea Gravel	GEN	*U.C. per CY*	820.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $20,500	*0* $0	*25* $20,500
Memo:	1/4 of 6" lift (820 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 820 CY gravel from town, to borrow pile, 1/2 mile from job site. 820 CY/10 CY/Load = 82 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 82 Loads/24 Loads/Day/Truck = 4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*10* 40	00E2010	*0* $0	*314.5* $1,258	*0* $0	*0* $0	*0* $0	*314.5* $1,258
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover Central Zone (2035)													
Memo:	***Scope includes infiltration barrier removal. For rye grass flats soil and top soil with 25% admix quantities, and footprint area, see K. Keller to J. Folker email dated february 20, 2006.***												
00E0912		GEN	*U.C. per ea*			*10*		*0*	*658.7*	*0*	*0*	*0*	*658.7*
	Cat 14 Grader			1.00	ea	10	00E0912	$0	$659	$0	$0	$0	$659
00E0630		GEN	*U.C. per ea*			*10*		*0*	*264.7*	*0*	*0*	*0*	*264.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	10	00E0630	$0	$265	$0	$0	$0	$265
CN-ENGR		GEN	*U.C. per ea*			*10*	*$39.39*	*393.9*	*0*	*0*	*0*	*0*	*393.9*
	OPERATING ENGINEER			3.00	ea	30	CN-ENGR	$1,182	$0	$0	$0	$0	$1,182
CN-TRHV		GEN	*U.C. per ea*			*10*	*$37.47*	*374.7*	*0*	*0*	*0*	*0*	*374.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	50	CN-TRHV	$1,874	$0	$0	$0	$0	$1,874
CN-LABR		GEN	*U.C. per ea*			*10*	*$35.21*	*352.1*	*0*	*0*	*0*	*0*	*352.1*
	LABORER			2.00	ea	20	CN-LABR	$704	$0	$0	$0	$0	$704
CN-SURV		GEN	*U.C. per ea*			*10*	*$37.19*	*371.9*	*0*	*0*	*0*	*0*	*371.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	20	CN-SURV	$744	$0	$0	$0	$0	$744
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*3000*	*0*	*3000*
	Reseeding Central Zone Area			4.07	ACRES	0		$0	$0	$0	$12,210	$0	$12,210
Memo:	177,216 SF (per CWI Design Engr) = 4.07 Acres												
	Subtotal							$358,662	$245,189	$0	$1,312,561	$0	$1,916,412
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$104,120	$71,178	$0	$381,037	$0	$556,335
	Subtotal Estimate												**$2,472,747**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$92,556	$63,273	$0	$338,720	$0	$494,549
—Total	**Tank Farm ET Cover Central Zone (2035)**					**9,560**		**$555,338**	**$379,641**	**$0**	**$2,032,318**	**$0**	**$2,967,296**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
	D&D Infiltration Barrier	GEN	*U.C. per CY*	484.00	CY	0		*0* $0	*0* $0	*0* $0	*54.05* $26,160	*0* $0	*54.05* $26,160
Memo: Barrier is 39,181 S.F. Volume = 39,181 x 4/12 (thk) = 13,060 CF/27 CF/CY = 484 C.Y. Per RS Means Environmental Remediation Cost Data 2003 Edition, escalated to 2006 (9.06%), Demolition, Pavements, unit cost is $54.05/CY. Cost includes disposal.													
	Grading Fill-South Perimeter Area (FY 2035)	GEN	*U.C. per CY*	3,431.00	CY	0		*0* $0	*0* $0	*0* $0	*40* $137,240	*0* $0	*40* $137,240
Memo: Assume fill material is available within 1 mile of job site. Quantity from CWI Design Engineering.													
	"6" Gravel Layer-South Perimeter Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo: Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.													
	Pea Gravel	GEN	*U.C. per CY*	1,004.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $25,100	*0* $0	*25* $25,100
Memo: Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.													
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo: Loader at material source.													
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*10* 40	00E2010	*0* $0	*314.5* $1,258	*0* $0	*0* $0	*0* $0	*314.5* $1,258
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*10* 50	*$37.47* CN-TRHV	*374.7* $1,874	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $1,874

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744
	"1'-0" Cobble Layer-South Perimeter Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo: Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 1.0 = 54,204 CF/27 CF/CY = 2,008 CY.													
	Cobble Stone-South Perimeter Area	GEN	*U.C. per CY*	2,008.00	CY	0		*0* $0	*0* $0	*0* $0	*40* $80,320	*0* $0	*40* $80,320
Memo: Cobble stone material cost delivered (local vendor quote). Deliver 2,008 CY cobble from town, to borrow pile, 1/2 mile from job site. 2,008 CY/10 CY/Load = 201 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 201 Loads/24 Loads/Day/Truck = 8 Days/Truck. 8 Days/Truck/4 Trucks = 2 Days. Equipment costs from Blue Book.													
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*20* 20	00E0940	*0* $0	*876.6* $877	*0* $0	*0* $0	*0* $0	*876.6* $877
Memo: Loader at material source.													
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*20* 80	00E2010	*0* $0	*629* $2,516	*0* $0	*0* $0	*0* $0	*629* $2,516
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*20* 20	00E2050	*0* $0	*627.6* $628	*0* $0	*0* $0	*0* $0	*627.6* $628
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*20* 20	00E0912	*0* $0	*1317.4* $1,317	*0* $0	*0* $0	*0* $0	*1317.4* $1,317
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*20* 20	00E0630	*0* $0	*529.4* $529	*0* $0	*0* $0	*0* $0	*529.4* $529
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*20* 60	*$39.39* CN-ENGR	*787.8* $2,363	*0* $0	*0* $0	*0* $0	*0* $0	*787.8* $2,363
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*20* 100	*$37.47* CN-TRHV	*749.4* $3,747	*0* $0	*0* $0	*0* $0	*0* $0	*749.4* $3,747

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,206 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR		GEN	*U.C. per ea*			*20*	*$35.21*	*704.2*	*0*	*0*	*0*	*0*	*704.2*
	LABORER			2.00	ea	40	CN-LABR	$1,408	$0	$0	$0	$0	$1,408
CN-SURV		GEN	*U.C. per ea*			*20*	*$37.19*	*743.8*	*0*	*0*	*0*	*0*	*743.8*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	40	CN-SURV	$1,488	$0	$0	$0	$0	$1,488
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	"6" Gravel Layer-South Perimeter Area"			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1004 CY.												
		GEN	*U.C. per CY*					*0*	*0*	*0*	*25*	*0*	*25*
	Pea Gravel			1,004.00	CY	0		$0	$0	$0	$25,100	$0	$25,100
Memo:	Pea gravel material cost delivered (local vendor quote). Deliver 6" (1,004 CY) gravel from town, to borrow pile, 1/2 mile from job site. 1,004 CY/10 CY/Load = 100 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 100 Loads/24 Loads/Day/Truck =4 Days/Truck. 4 Days/Truck/4 Trucks = 1 Day. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*10*		*0*	*438.3*	*0*	*0*	*0*	*438.3*
	Cat 950 4 cy Loader			1.00	ea	10	00E0940	$0	$438	$0	$0	$0	$438
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*10*		*0*	*314.5*	*0*	*0*	*0*	*314.5*
	12 cy End Dump			4.00	ea	40	00E2010	$0	$1,258	$0	$0	$0	$1,258
00E2050		GEN	*U.C. per ea*			*10*		*0*	*313.8*	*0*	*0*	*0*	*313.8*
	4000 gal Water Truck			1.00	ea	10	00E2050	$0	$314	$0	$0	$0	$314
00E0912		GEN	*U.C. per ea*			*10*		*0*	*658.7*	*0*	*0*	*0*	*658.7*
	Cat 14 Grader			1.00	ea	10	00E0912	$0	$659	$0	$0	$0	$659
00E0630		GEN	*U.C. per ea*			*10*		*0*	*264.7*	*0*	*0*	*0*	*264.7*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	10	00E0630	$0	$265	$0	$0	$0	$265
CN-ENGR		GEN	*U.C. per ea*			*10*	*$39.39*	*393.9*	*0*	*0*	*0*	*0*	*393.9*
	OPERATING ENGINEER			3.00	ea	30	CN-ENGR	$1,182	$0	$0	$0	$0	$1,182
CN-TRHV		GEN	*U.C. per ea*			*10*	*$37.47*	*374.7*	*0*	*0*	*0*	*0*	*374.7*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			5.00	ea	50	CN-TRHV	$1,874	$0	$0	$0	$0	$1,874

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-LABR		GEN	*U.C. per ea*			*10*	*$35.21*	*352.1*	*0*	*0*	*0*	*0*	*352.1*
	LABORER			2.00	ea	20	CN-LABR	$704	$0	$0	$0	$0	$704
CN-SURV		GEN	*U.C. per ea*			*10*	*$37.19*	*371.9*	*0*	*0*	*0*	*0*	*371.9*
	SURVEYOR INSTRUMENT MAN (GROUP 5)			2.00	ea	20	CN-SURV	$744	$0	$0	$0	$0	$744
		GEN	*U.C. per ea*					*0*	*0*	*0*	*0.01*	*0*	*0.01*
	3.5' USCS Soil Type ML or CL South Perimeter Area			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 3.5 = 189,714 CF/27 CF/CY = 7,026 CY. Import 3.5' (7,026 CY) material from Rye Grass Flats (10 miles one way). 7,026 CY/10 CY/Load = 703 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 703 Loads/7 Loads/Day/Truck = 100 Days/Truck. 100 Days/Truck/8 Trucks = 13 Days. Equipment costs from Blue Book.												
00E0940		GEN	*U.C. per ea*			*130*		*0*	*5697.9*	*0*	*0*	*0*	*5697.9*
	Cat 950 4 cy Loader			1.00	ea	130	00E0940	$0	$5,698	$0	$0	$0	$5,698
Memo:	Loader at material source.												
00E2010		GEN	*U.C. per ea*			*130*		*0*	*4088.5*	*0*	*0*	*0*	*4088.5*
	12 cy End Dump			8.00	ea	1,040	00E2010	$0	$32,708	$0	$0	$0	$32,708
00E2050		GEN	*U.C. per ea*			*130*		*0*	*4079.4*	*0*	*0*	*0*	*4079.4*
	4000 gal Water Truck			1.00	ea	130	00E2050	$0	$4,079	$0	$0	$0	$4,079
00E0912		GEN	*U.C. per ea*			*130*		*0*	*8563.1*	*0*	*0*	*0*	*8563.1*
	Cat 14 Grader			1.00	ea	130	00E0912	$0	$8,563	$0	$0	$0	$8,563
00E0630		GEN	*U.C. per ea*			*130*		*0*	*3441.1*	*0*	*0*	*0*	*3441.1*
	Cat CS-433 Vib Smooth Drum Compactor			1.00	ea	130	00E0630	$0	$3,441	$0	$0	$0	$3,441
CN-ENGR		GEN	*U.C. per ea*			*130*	*$39.39*	*5120.7*	*0*	*0*	*0*	*0*	*5120.7*
	OPERATING ENGINEER			3.00	ea	390	CN-ENGR	$15,362	$0	$0	$0	$0	$15,362
CN-TRHV		GEN	*U.C. per ea*			*130*	*$37.47*	*4871.1*	*0*	*0*	*0*	*0*	*4871.1*
	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)			9.00	ea	1,170	CN-TRHV	$43,840	$0	$0	$0	$0	$43,840
CN-LABR		GEN	*U.C. per ea*			*130*	*$35.21*	*4577.3*	*0*	*0*	*0*	*0*	*4577.3*
	LABORER			2.00	ea	260	CN-LABR	$9,155	$0	$0	$0	$0	$9,155

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*130* 260	*$37.19* CN-SURV	*4834.7* $9,669	*0* $0	*0* $0	*0* $0	*0* $0	*4834.7* $9,669
	"6" Topsoil with Gravel Admix South Perimeter Area"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	Surface area ET cover south perimeter area = 54,204 SF (Qty from CWI Design Engineering). Volume = 54,204 x 0.5 = 27,102 CF/27 CF/CY = 1,004 CY. Import 3/4 of 6" lift (750 CY) material from Rye Grass Flats (10 miles one way). 1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile. For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
	"USCS Soil Type ML or CL"	GEN	*U.C. per ea*	1.00	ea	0		*0* $0	*0* $0	*0* $0	*0.01* $0	*0* $0	*0.01* $0
Memo:	For rye grass flats soil, 750 CY/10 CY/Load = 75 Loads. Cycle time (Load, haul, dump, return) = 50 minutes. INEEL Factor (7 hr day, 50 minute hour) = 7 loads/day/truck. 75 Loads/7 Loads/Day/Truck = 11 Days/Truck. 11 Days/Truck/4 Trucks = 3 Days. Equipment costs from Blue Book.												
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0940	*0* $0	*1314.9* $1,315	*0* $0	*0* $0	*0* $0	*1314.9* $1,315
Memo:	Loader at material source.												
00E2010	12 cy End Dump	GEN	*U.C. per ea*	4.00	ea	*30* 120	00E2010	*0* $0	*943.5* $3,774	*0* $0	*0* $0	*0* $0	*943.5* $3,774
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E2050	*0* $0	*941.4* $941	*0* $0	*0* $0	*0* $0	*941.4* $941
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0912	*0* $0	*1976.1* $1,976	*0* $0	*0* $0	*0* $0	*1976.1* $1,976
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*30* 30	00E0630	*0* $0	*794.1* $794	*0* $0	*0* $0	*0* $0	*794.1* $794
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*30* 90	*$39.39* CN-ENGR	*1181.7* $3,545	*0* $0	*0* $0	*0* $0	*0* $0	*1181.7* $3,545
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	5.00	ea	*30* 150	*$37.47* CN-TRHV	*1124.1* $5,621	*0* $0	*0* $0	*0* $0	*0* $0	*1124.1* $5,621
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$35.21* CN-LABR	*1056.3* $2,113	*0* $0	*0* $0	*0* $0	*0* $0	*1056.3* $2,113

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*30* 60	*$37.19* CN-SURV	*1115.7* $2,231	*0* $0	*0* $0	*0* $0	*0* $0	*1115.7* $2,231
	3/8" Pea Gravel	GEN	*U.C. per CY*	250.00	CY	0		*0* $0	*0* $0	*0* $0	*25* $6,250	*0* $0	*25* $6,250
Memo: 1/4 of 6" lift (250 CY) will be from pea gravel from town to borrow pile @ $25/CY. Deliver 250 CY gravel from town, to borrow pile, 1/2 mile from job site. 250 CY/10 CY/Load = 25 Loads. Cycle time (Load, haul, dump, return) = 15 minutes. INEEL Factor (7 hr day, 50 minute hour) = 24 loads/day/truck. 25 Loads/24 Loads/Day/Truck = 1 Day/Truck. = 1 Day. Equipment costs from Blue Book.													
00E0940	Cat 950 4 cy Loader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0940	*0* $0	*438.3* $438	*0* $0	*0* $0	*0* $0	*438.3* $438
Memo: Loader at material source.													
00E2010	12 cy End Dump	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2010	*0* $0	*314.5* $315	*0* $0	*0* $0	*0* $0	*314.5* $315
00E2050	4000 gal Water Truck	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E2050	*0* $0	*313.8* $314	*0* $0	*0* $0	*0* $0	*313.8* $314
00E0912	Cat 14 Grader	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0912	*0* $0	*658.7* $659	*0* $0	*0* $0	*0* $0	*658.7* $659
00E0630	Cat CS-433 Vib Smooth Drum Compactor	GEN	*U.C. per ea*	1.00	ea	*10* 10	00E0630	*0* $0	*264.7* $265	*0* $0	*0* $0	*0* $0	*264.7* $265
CN-ENGR	OPERATING ENGINEER	GEN	*U.C. per ea*	3.00	ea	*10* 30	*$39.39* CN-ENGR	*393.9* $1,182	*0* $0	*0* $0	*0* $0	*0* $0	*393.9* $1,182
CN-TRHV	TRUCK DRIVERS, HEAVY (GROUP 4) (LOWBOY<9600GVW)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.47* CN-TRHV	*374.7* $749	*0* $0	*0* $0	*0* $0	*0* $0	*374.7* $749
CN-LABR	LABORER	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$35.21* CN-LABR	*352.1* $704	*0* $0	*0* $0	*0* $0	*0* $0	*352.1* $704
CN-SURV	SURVEYOR INSTRUMENT MAN (GROUP 5)	GEN	*U.C. per ea*	2.00	ea	*10* 20	*$37.19* CN-SURV	*371.9* $744	*0* $0	*0* $0	*0* $0	*0* $0	*371.9* $744

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Tank Farm ET Cover South Perimeter Area (2035)													
Memo:	***54,205 SF (per CWI Design Engr) = 1.25 Acres***												
		GEN	*U.C. per ACRES*					*0*	*0*	*0*	*3000*	*0*	*3000*
	Reseeding South Perimeter Area			1.25	ACRES	0		$0	$0	$0	$3,750	$0	$3,750
Memo: 54,204 SF (per CWI Design Engr) = 1.25 Acres													
	Subtotal							$112,928	$77,014	$0	$303,920	$0	$493,862
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		29.03%					$32,783	$22,357	$0	$88,228	$0	$143,368
	Subtotal Estimate												**$637,230**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$29,142	$19,874	$0	$78,430	$0	$127,446
--Total	**Tank Farm ET Cover South Perimeter Area (2035)**					3,010		**$174,852**	**$119,245**	**$0**	**$470,578**	**$0**	**$764,676**
Mobilization and Subcontractor Preparations													
		GROUT	*U.C. per LS*		NM80			*0*	*0*	*0*	*150000*	*0*	*150000*
	SUBCONTRACTOR ON SITE MOBILIZATION			1.00	LS	0		$0	$0	$0	$150,000	$0	$150,000
Memo: Estimated cost is based on Layne's (SLC grouting contractor) proposal for the Be grouting project. (This Be project was based on a wax-fixed system). This estimate assumes mobilization and vendor prep will be double Layne's price due to batch plant, grout delivery, and injection systems.													
		GROUT	*U.C. per LS*		NM80			*0*	*0*	*0*	*150000*	*0*	*150000*
	VENDOR PREP.			1.00	LS	0		$0	$0	$0	$150,000	$0	$150,000
	Subtotal							$0	$0	$0	$300,000	$0	$300,000
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$300,000**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$150,000	$0	$150,000
--Total	**Mobilization and Subcontractor Preparations**					0		**$0**	**$0**	**$0**	**$450,000**	**$0**	**$450,000**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Subcontractor Equipment Procurement												
	GROUT	*U.C. per ea*					*0*	*0*	*0*	*390000*	*0*	*390000*
	Purchase Casa Grande C-6 Track Mounted Drill Rig		1.00	ea	0		$0	$0	$0	$390,000	$0	$390,000
Memo: Cost is per a 3/19/03 verbal quotation from Jim Campbell of International Construction Equipment (Casa Grande rep) in North Carolina, escalated to 2005.												
	GROUT	*U.C. per ea*					*0*	*0*	*0*	*150000*	*0*	*150000*
	Purchase Thrust Block Assembly		1.00	ea	0		$0	$0	$0	$150,000	$0	$150,000
Memo: See FS, page 58. Costs from "In-Situ Grout Treatability Study Thrust Block Cost Estimate", 3/28/01 escalated to 2005. Includes HEPA filtration.												
	Subtotal						$0	$0	$0	$540,000	$0	$540,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$540,000**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$270,000	$0	$270,000
---Total	**Subcontractor Equipment Procurement**				0		**$0**	**$0**	**$0**	**$810,000**	**$0**	**$810,000**
Grout Procurement and Delivery												
	GROUT	*U.C. per Ea*		NM80			*0*	*0*	*0*	*250000*	*0*	*250000*
	BATCH PLANT PROCUREMENT		1.00	Ea	0		$0	$0	$0	$250,000	$0	$250,000
	GROUT	*U.C. per GAL*		NM80			*0*	*0*	*2.39*	*0*	*0*	*2.39*
	GROUT VOLUME		387,000.00	GAL	0		$0	$0	$924,930	$0	$0	$924,930
Memo: See FS, section 4.4.4.1.2.2, page 58: 750 gal grout/column x 516 columns = 387,000 gallons grout. 2,500,000 lbs cement x $0.37/lb delivered to INL (quote from US Grout, Malad, Idaho) = $925,000. $925,000/387,000 gallons = $2.39/gallon.												

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Grout Procurement and Delivery													
		GROUT	*U.C. per LS*		NM80	*2080*	*$39.03*	*81182.4*	*0*	*0*	*0*	*0*	*81182.4*
	GROUT DELIVERY			1.00	LS	2,080	CN-EQMD	$81,182	$0	$0	$0	$0	$81,182
Memo: Costs include operation of the batch plant. The estimate assumes 4 men to operate the batch plant. Per FS, 516 boreholes/10 boreholes/day = 52 working days. 52 x 10 x 4 = 2080 m.hrs.													
	Subtotal							$81,182	$0	$924,930	$250,000	$0	$1,256,112
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$1,256,112**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$40,591	$0	$462,465	$125,000	$0	$628,056
---Total	**Grout Procurement and Delivery**					**2,080**		**$121,774**	**$0**	**$1,387,395**	**$375,000**	**$0**	**$1,884,169**
Move Thrust Block Assembly													
Memo:	***Crew required for the work duration (52 days).***												
00E1370		GROUT	*U.C. per hrs*			*1*		*0*	*162.37*	*0*	*0*	*0*	*162.37*
	Manitowoc 3900WS2 150 tn Crawler Crane			520.00	hrs	520	00E1370	$0	$84,432	$0	$0	$0	$84,432
CN-EQHV		GROUT	*U.C. per hrs*			*1*	*$40.89*	*40.89*	*0*	*0*	*0*	*0*	*40.89*
	EQUIPMENT OPERATOR HEAVY EQUIP GROUP 7(OVER 50T OR <100' BOOM)			520.00	hrs	520	CN-EQHV	$21,263	$0	$0	$0	$0	$21,263
CN-EQOL		GROUT	*U.C. per hrs*			*1*	*$38.78*	*38.78*	*0*	*0*	*0*	*0*	*38.78*
	OPERATING ENGINEER OILER			520.00	hrs	520	CN-EQOL	$20,166	$0	$0	$0	$0	$20,166

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Move Thrust Block Assembly													
Memo:	***Crew required for the work duration (52 days).***												
CN-LABR		GROUT	*U.C. per hrs*			*1*	*$35.21*	*35.21*	*0*	*0*	*0*	*0*	*35.21*
LABORER				1,040.00	hrs	1,040	CN-LABR	$36,618	$0	$0	$0	$0	$36,618
Subtotal								$78,047	$84,432	$0	$0	$0	$162,479
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$162,479**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$39,023	$42,216	$0	$0	$0	$81,240
—Total Move Thrust Block Assembly						**2,080**		**$117,070**	**$126,649**	**$0**	**$0**	**$0**	**$243,719**

Grout Injection

Memo: ***Labor rate is based on a 5 man grouting crew per machine and, per the FS, assumes a production rate of 10 columns/day, for 52 total days. 52 x 10 x 5 = 2600 m.hrs.***

	GROUT	*U.C. per Ls*			*2600*	*$39.03*	*101478*	*0*	*0*	*0*	*0*	*101478*
LABOR FOR GROUT PLACEMENT			1.00	Ls	2,600	CN-EQMD	$101,478	$0	$0	$0	$0	$101,478

Memo: Labor rate is based on a 5 man grouting crew and assumes, per the FS, a production rate of 10 boreholes/day for a total of 52 days. 52 days x 5 x 10 hrs/day = 2600 m.hrs.

	GROUT	*U.C. per LS*			*520*	*$39.03*	*20295.6*	*0*	*0*	*0*	*0*	*20295.6*
DATA COLLECTION			1.00	LS	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296

Memo: 1 person x 52 days x 10 hrs/day.

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Grout Injection												
Memo:	***Labor rate is based on a 5 man grouting crew per machine and, per the FS, assumes a production rate of 10 columns/day, for 52 total days. 52 x 10 x 5 = 2600 m.hrs.***											
	GROUT	*U.C. per GAL.*					*0*	*0*	*3*	*0*	*0*	*3*
FUEL			10,400.00	GAL.	0		$0	$0	$31,200	$0	$0	$31,200
Memo: The estimate assumes 200 gallons of fuel/day for Casa Grande and crane.												
Subtotal							$121,774	$0	$31,200	$0	$0	$152,974
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$152,974**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$60,887	$0	$15,600	$0	$0	$76,487
—Total Grout Injection					**3,120**		**$182,660**	**$0**	**$46,800**	**$0**	**$0**	**$229,460**
Maintenance												
Memo:	***The estimate assumes grouting activities will run 13 weeks.***											
	GROUT	*U.C. per LS*	NM80				*0*	*0*	*0*	*0*	*250000*	*250000*
ALOWANCE FOR MATERIALS/SPARES			1.00	LS	0		$0	$0	$0	$0	$250,000	$250,000
	GROUT	*U.C. per Ea*	NM80		*520*	*$39.03*	*20295.6*	*0*	*0*	*0*	*0*	*20295.6*
CONSTRUCTION OTHER CRAFTS, HEAVY MECHANIC			1.00	Ea	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296
Subtotal							$20,296	$0	$0	$0	$250,000	$270,296
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$270,296**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$10,148	$0	$0	$0	$125,000	$135,148
—Total Maintenance					**520**		**$30,443**	**$0**	**$0**	**$0**	**$375,000**	**$405,443**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Shut-Down/Demobilization													
	GROUT	*U.C. per Ls*				*400*	*$39.03*	*15612*	*0*	*0*	*0*	*0*	*15612*
	LABOR FOR SHUT DOWN/DEMOB			1.00	Ls	400	CN-EQMD	$15,612	$0	$0	$0	$0	$15,612
	Subtotal							$15,612	$0	$0	$0	$0	$15,612
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$15,612**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$7,806	$0	$0	$0	$0	$7,806
—Total	**Shut-Down/Demobilization**					**400**		**$23,418**	**$0**	**$0**	**$0**	**$0**	**$23,418**
General Subcontract Costs													
	GROUT	*U.C. per Hrs*				*1*	*$39.03*	*39.03*	*0*	*0*	*0*	*0*	*39.03*
	SUPERVISION, 10 HOUR DAY, 4 DAY WORK WEEK, 13 WEEKS			520.00	Hrs	520	CN-EQMD	$20,296	$0	$0	$0	$0	$20,296
	GROUT	*U.C. per DAYS*						*0*	*0*	*0*	*0*	*165*	*165*
	PERDIEM FOR 6 FTE's FOR 13- 7 DAY WEEKS			546.00	DAYS	0		$0	$0	$0	$0	$90,090	$90,090
	Memo: Incl hotel, expenses, car, airline tickets.												
	Subtotal							$20,296	$0	$0	$0	$90,090	$110,386
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$110,386**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$10,148	$0	$0	$0	$45,045	$55,193
—Total	**General Subcontract Costs**					**520**		**$30,443**	**$0**	**$0**	**$0**	**$135,135**	**$165,578**

Material Costs where applicable Include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Disposal													
Memo:	***1800 CY for disposal at ICDF (see J. Keck email to J. Folker dated 10/20/2005). Assume Stoller transport and disposal unit rates.***												
	Boxes	STOLLER	*U.C. per ea*	450.00	ea	0		*0* $0	*0* $0	*1349* $607,050	*0* $0	*0* $0	*1349* $607,050
Memo:	Each box 4 x 4 x 8. (4 CY debris/ea). 1800 CY/4CY/box = 450 Boxes. Unit cost from Attch 1 to contract 21115, Team Stoller.												
	Transport to ICDF	STOLLER	*U.C. per TONS*	3,114.00	TONS	0		*0* $0	*0* $0	*0* $0	*16* $49,824	*0* $0	*16* $49,824
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, INTEC transportation costs. 1.73 tons/CY negotiated factor.												
	Bulk Placement	STOLLER	*U.C. per TONS*	3,114.00	TONS	0		*0* $0	*0* $0	*0* $0	*0* $0	*13.61* $42,382	*13.61* $42,382
Memo:	Unit cost from DWP 5/1/2005 - 9/30/2005, Team Stoller-INEEL CERCLA Disposal Facility, ICDF bulk placement costs. 1.73 tons/CY negotiated factor.												
	Subtotal							$0	$0	$607,050	$49,824	$42,382	$699,256
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$699,256**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$303,525	$24,912	$21,191	$349,628
—Total	**Disposal**					**0**		**$0**	**$0**	**$910,575**	**$74,736**	**$63,572**	**$1,048,883**
Project Management (Capital)													
	PM cost estimated at 5% of construction	CWI	*U.C. per $$*	10,221,596.00	$$	0		*0.05* $511,080	*0* $0	*0* $0	*0* $0	*0* $0	*0.05* $511,080

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (Capital)												
	Subtotal						$511,080	$0	$0	$0	$0	$511,080
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$511,080**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
--Total	**Project Management (Capital)**				0		**$511,080**	**$0**	**$0**	**$0**	**$0**	**$511,080**
Remedial Design/Remedial Action Work Plan												
	CWI	*U.C. per $$*					*0.08*	*0*	*0*	*0*	*0*	*0.08*
	RA Work Plan cost estimated at 8% of construction		10,221,596.00	$$	0		$817,728	$0	$0	$0	$0	$817,728
	Memo: Estimate assumes equipment design will be done by equipment manufacturers, for the track-hoe.											
	Subtotal						$817,728	$0	$0	$0	$0	$817,728
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$817,728**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
--Total	**Remedial Design/Remedial Action Work Plan**				0		**$817,728**	**$0**	**$0**	**$0**	**$0**	**$817,728**
Construction Management (Capital)												
	CWI	*U.C. per $$*					*0.06*	*0*	*0*	*0*	*0*	*0.06*
	CM cost estimated at 6% of construction		10,221,596.00	$$	0		$613,296	$0	$0	$0	$0	$613,296

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Construction Management (Capital)												
	Subtotal						$613,296	$0	$0	$0	$0	$613,296
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$613,296**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$0	$0
---Total	**Construction Management (Capital)**				**0**		**$613,296**	**$0**	**$0**	**$0**	**$0**	**$613,296**
Extraction, Containment, or Treatment Systems												
Memo:	***Costs for tank farm drainage maintenance, lift station pump tests, drainage inspections, annual O&M data collection, reports, and transmittal of reports to agencies. For basis, see estimate file # 2966-K. (Total cost per year is $526,000/7 yrs (FY06-12)) = $75,000 annual cost.***											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*75000*	*75000*
	Surface Water Controls			1.00	LS	0	$0	$0	$0	$0	$75,000	$75,000
	Subtotal						$0	$0	$0	$0	$75,000	$75,000
	Sales Tax						$0	$0	$0	$0	$0	$0
	Overheads	0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate											**$75,000**
	Escalation						$0	$0	$0	$0	$0	$0
	Contingency						$0	$0	$0	$0	$11,250	$11,250
---Total	**Extraction, Containment, or Treatment Systems**				**0**		**$0**	**$0**	**$0**	**$0**	**$86,250**	**$86,250**
Project Management (O&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. 10 hrs/month. Based on current/proposed crew makeup and determined duration periods.***											
E28		CWI	*U.C. per hrs*		*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
	PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (O&M) (Annual)												
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. 10 hrs/month. Based on current/proposed crew makeup and determined duration periods.***											
Subtotal							$8,882	$0	$0	$0	$0	$8,882
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$8,882**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$1,332	$0	$0	$0	$0	$1,332
—Total Project Management (O&M) (Annual)					**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**

Project Management (S&M) (Annual)

Memo: ***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***

E28	CWI	*U.C. per months*			*10*	*$74.02*	*740.2*	*0*	*0*	*0*	*0*	*740.2*
PROJECT MANAGEMENT			12.00	months	120	E28	$8,882	$0	$0	$0	$0	$8,882
Subtotal							$8,882	$0	$0	$0	$0	$8,882
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$8,882**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$1,332	$0	$0	$0	$0	$1,332
—Total Project Management (S&M) (Annual)					**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**

Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)

Memo: ***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
		CWI	*U.C. per ea*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Soil Monitoring			1.00	ea	0		$0	$0	$0	$0	$0	$0
Memo:	A No Longer Contained In Determination will be approved for all INTEC groundwater and perched water. The tank farm tanks will be clean closed. The RI/BRA showed that there was no risk from the RCRA constituents in the soil. Therefore a RCRA cap, post closure permit, or RCRA groundwater monitoring program will not be required.												
X12		CWI	*U.C. per ea*			*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION			1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896
U-60		CWI	*U.C. per ea*			*40*	*$40.07*	*1602.8*	*0*	*0*	*0*	*0*	*1602.8*
	RADIOLOGICAL CONTROL TECH			1.00	ea	40	U-60	$1,603	$0	$0	$0	$0	$1,603
		CWI	*U.C. per ea*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Groundwater Monitoring			1.00	ea	0		$0	$0	$0	$0	$0	$0
		CWI	*U.C. per ea*					*30260*	*0*	*1453*	*0*	*0*	*31713*
	Annual Well Monitoring, Including Report			1.00	ea	0		$30,260	$0	$1,453	$0	$0	$31,713
Memo:	Based on Group 5 DWP estimate file # 8530-DWP2-11B, escalated to 2006.												
		CWI	*U.C. per LS*		NM60	*40*	*$53.67*	*2146.8*	*0*	*1463*	*0*	*0*	*3609.8*
	Prepare TOS, Work Planning & Mobilization			1.00	LS	40	S15	$2,147	$0	$1,463	$0	$0	$3,610
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100045.												
		CWI	*U.C. per LS*					*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Collect samples			1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.												
S15		CWI	*U.C. per ea*			*12*	*$53.67*	*644.04*	*0*	*0*	*0*	*0*	*644.04*
	ANALYTICAL CHEMISTRY			1.00	ea	12	S15	$644	$0	$0	$0	$0	$644
T10		CWI	*U.C. per ea*			*8*	*$37.03*	*296.24*	*0*	*0*	*0*	*0*	*296.24*
	LABORATORY TECH			1.00	ea	8	T10	$296	$0	$0	$0	$0	$296
T15		CWI	*U.C. per ea*			*200*	*$29.84*	*5968*	*0*	*0*	*0*	*0*	*5968*
	ENVIRON/FIELD TECH			1.00	ea	200	T15	$5,968	$0	$0	$0	$0	$5,968
U16		CWI	*U.C. per ea*			*3*	*$36.61*	*109.83*	*0*	*0*	*0*	*0*	*109.83*
	FITTER			1.00	ea	3	U16	$110	$0	$0	$0	$0	$110
U76		CWI	*U.C. per ea*			*30*	*$33.36*	*1000.8*	*0*	*0*	*0*	*0*	*1000.8*
	CONSTRUCTION IRON WORKER (FORCE ACCT)			1.00	ea	30	U76	$1,001	$0	$0	$0	$0	$1,001

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25....95)												
Memo:	***Includes radiation surveys and environmental monitoring for CPP-96. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***											
U84		CWI	*U.C. per ea*		*66*	*$31.36*	*2069.76*	*0*	*0*	*0*	*0*	*2069.76*
	CONSTRUCTION LABORER (FORCE ACCT)		1.00	ea	66	U84	$2,070	$0	$0	$0	$0	$2,070
X12		CWI	*U.C. per ea*		*26*	*$47.41*	*1232.66*	*0*	*0*	*0*	*0*	*1232.66*
	ENVIRONMENTAL RESTORATION		1.00	ea	26	X12	$1,233	$0	$0	$0	$0	$1,233
		CWI	*U.C. per LS*	NM80			*0*	*0*	*0*	*72274*	*0*	*72274*
	Sample Analysis		1.00	LS	0		$0	$0	$0	$72,274	$0	$72,274
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100047.											
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	"Data Validation & L&V Report"		1.00	LS	0		$0	$0	$0	$0	$0	$0
Memo:	Based on Group 5 actuals. See Routine GW monitoring LCB, ID ERM4100046.											
A02		CWI	*U.C. per ea*		*40*	*$19.98*	*799.2*	*0*	*0*	*0*	*0*	*799.2*
	DATA ENTRY		1.00	ea	40	A02	$799	$0	$0	$0	$0	$799
NRPR		CWI	*U.C. per hrs*	NRPR			*0*	*0*	*38.38*	*0*	*0*	*38.38*
	RECORDS MANAGEMENT		9.00	hrs	0		$0	$0	$345	$0	$0	$345
A25		CWI	*U.C. per ea*		*3*	*$25.58*	*76.74*	*0*	*0*	*0*	*0*	*76.74*
	OFFICE ADMINISTRATION/COORDINATION		1.00	ea	3	A25	$77	$0	$0	$0	$0	$77
S15		CWI	*U.C. per ea*		*35*	*$53.67*	*1878.45*	*0*	*0*	*0*	*0*	*1878.45*
	ANALYTICAL CHEMISTRY		1.00	ea	35	S15	$1,878	$0	$0	$0	$0	$1,878

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)													
Memo:	***Includes radiation surveys and environmental monitoring for CPP-95. For groundwater monitoring, group 5, estimate file # 8530-DWP2-11B and WBS P.4.C1.04.01, Routine GW monitoring LCB estimates are used as basis. AWMR 2013, 2015 then every 5 years till 2095. The long term groundwater monitoring requirements will be the same as Group 5 as specified in the long term monitoring plan in terms of number of wells, frequency, number of constituents, etc. See L. S. Cahn email to J. Folker dated 09/12/2005.***												
S16		CWI	*U.C. per ea*			*34*	*$65.07*	*2212.38*	*0*	*0*	*0*	*0*	*2212.38*
	CHEMICAL SCIENCES			1.00	ea	34	S16	$2,212	$0	$0	$0	$0	$2,212
	Subtotal							$52,194	$0	$3,261	$72,274	$0	$127,730
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$127,730**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$7,829	$0	$489	$10,841	$0	$19,159
—Total	**Monitoring, Sampling, Testing, and Analysis (S&M) (2013,15,20,25,...95)**					**577**		**$60,023**	**$0**	**$3,751**	**$83,115**	**$0**	**$146,889**

Site Information Database (CFLUP) (Annual)

Memo: ***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***

X12		CWI	*U.C. per ea*			*50*	*$47.41*	*2370.5*	*0*	*0*	*0*	*0*	*2370.5*
	ENVIRONMENTAL RESTORATION			1.00	ea	50	X12	$2,371	$0	$0	$0	$0	$2,371
NRPG		CWI	*U.C. per hrs*		NRPG			*0*	*0*	*58.69*	*0*	*0*	*58.69*
	WRITER/EDITOR			2.00	hrs	0		$0	$0	$117	$0	$0	$117

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Site Information Database (CFLUP) (Annual)												
Memo:	***Institutional controls will remain in effect as long as hazards remain which make the site unsuitable for unrestricted residential use. Maintain the site listings and updates in the INL CFLUP; update changes or terminations agreed to by the agencies. Incorporation of ORB comments. See WBS P.4.C1.03.02, Institutional Controls, estimate by R. Fitch. Once per year through 2095. 1 year costs.***											
S05		CWI	*U.C. per ea*		*8*	*$60.57*	*484.56*	*0*	*0*	*0*	*0*	*484.56*
GEOLOGY			1.00	ea	8	S05	$485	$0	$0	$0	$0	$485
Subtotal							$2,855	$0	$117	$0	$0	$2,972
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,972**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$428	$0	$18	$0	$0	$446
--Total Site Information Database (CFLUP) (Annual)					**58**		**$3,283**	**$0**	**$135**	**$0**	**$0**	**$3,418**
Annual Institutional Control Inspection												
Memo:	***Annual inspection (Assessment). See WBS No. P.4.C1.03.02, ID # ERM3200010.***											
X12		CWI	*U.C. per ea*		*8*	*$47.41*	*379.28*	*0*	*0*	*0*	*0*	*379.28*
ENVIRONMENTAL RESTORATION			1.00	ea	8	X12	$379	$0	$0	$0	$0	$379
Memo: For assessment												
S05		CWI	*U.C. per ea*		*32*	*$60.57*	*1938.24*	*0*	*0*	*0*	*0*	*1938.24*
GEOLOGY			1.00	ea	32	S05	$1,938	$0	$0	$0	$0	$1,938
Memo: For assessment												
Subtotal							$2,318	$0	$0	$0	$0	$2,318
Sales Tax							$0	$0	$0	$0	$0	$0
Overheads		0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate												**$2,318**
Escalation							$0	$0	$0	$0	$0	$0
Contingency							$348	$0	$0	$0	$0	$348
—Total Annual Institutional Control Inspection					**40**		**$2,665**	**$0**	**$0**	**$0**	**$0**	**$2,665**

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Project Management (IC) (Annual)													
Memo:	***Responsible for managing baseline schedule and budget, LCB mods, changes and updates, reporting, resource loading, etc. Based on current/proposed crew makeup and determined duration periods.***												
E28		CWI	*U.C. per hrs*			*12*	*$74.02*	*888.24*	*0*	*0*	*0*	*0*	*888.24*
	PROJECT MANAGEMENT			10.00	hrs	120	E28	$8,882	$0	$0	$0	$0	$8,882
	Subtotal							$8,882	$0	$0	$0	$0	$8,882
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$8,882**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$1,332	$0	$0	$0	$0	$1,332
---Total	**Project Management (IC) (Annual)**					**120**		**$10,215**	**$0**	**$0**	**$0**	**$0**	**$10,215**
Remedy Failure or Replacement (Annual)													
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***												
U21		CWI	*U.C. per ea*			*40*	*$21.47*	*858.8*	*0*	*0*	*0*	*0*	*858.8*
	LABORER			1.00	ea	40	U21	$859	$0	$0	$0	$0	$859
X12		CWI	*U.C. per ea*			*40*	*$47.41*	*1896.4*	*0*	*0*	*0*	*0*	*1896.4*
	ENVIRONMENTAL RESTORATION			1.00	ea	40	X12	$1,896	$0	$0	$0	$0	$1,896

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Remedy Failure or Replacement (Annual)													
Memo:	***Warning signs and physical barriers replacement. (Annual costs) See Institutional Controls WBS No. P.4.C1.03.02,ID # ERM3200100, "Maintain Institutional Controls" for basis of estimate. Per year costs.***												
NM80	OTHER - SERVICES	CWI	*U.C. per Lot*	1.00	NM80 Lot	0		*0* $0	*0* $0	*0* $0	*800* $800	*0* $0	*800* $800
	Subtotal							$2,755	$0	$0	$800	$0	$3,555
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$3,555**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$413	$0	$0	$120	$0	$533
—Total	**Remedy Failure or Replacement (Annual)**					**80**		**$3,168**	**$0**	**$0**	**$920**	**$0**	**$4,088**
Infiltration Barrier Maintenance													
	Annual Maintenance of Barrier @ 3% of Construction Costs		*U.C. per $*	3,544,897.06	$	0		*0* $0	*0* $0	*0* $0	*0.03* $106,347	*0* $0	*0.03* $106,347
Memo:	Total replacement of barrier in approximately 30 years.												
	Subtotal							$0	$0	$0	$106,347	$0	$106,347
	Sales Tax							$0	$0	$0	$0	$0	$0
	Overheads		0.00%					$0	$0	$0	$0	$0	$0
	Subtotal Estimate												**$106,347**
	Escalation							$0	$0	$0	$0	$0	$0
	Contingency							$0	$0	$0	$15,952	$0	$15,952
—Total	**Infiltration Barrier Maintenance**					**0**		**$0**	**$0**	**$0**	**$122,299**	**$0**	**$122,299**
Five Year Reviews													
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***												
	"Assemble Data"	CWI	*U.C. per LS*	1.00	LS	0		*0* $0	*0* $0	*0* $0	*0* $0	*0.01* $0	*0.01* $0

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews												
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***											
Z09		CWI	*U.C. per ea*		*84*	*$72.73*	*6109.32*	*0*	*0*	*0*	*0*	*6109.32*
	SUPERVISOR, SCI/ENG FUNC		1.00	ea	84	Z09	$6,109	$0	$0	$0	$0	$6,109
NM60		CWI	*U.C. per LS*	NM60			*0*	*0*	*2398*	*0*	*0*	*2398*
	OTHER-DIRECT PURCHASES		1.00	LS	0		$0	$0	$2,398	$0	$0	$2,398
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Prepare Draft		1.00	LS	0		$0	$0	$0	$0	$0	$0
NRPF		CWI	*U.C. per hrs*	NRPF			*0*	*0*	*36.17*	*0*	*0*	*36.17*
	ELECTRONIC PUBLICATIONS		5.00	hrs	0		$0	$0	$181	$0	$0	$181
NRPG		CWI	*U.C. per hrs*	NRPG			*0*	*0*	*58.69*	*0*	*0*	*58.69*
	WRITER/EDITOR		28.00	hrs	0		$0	$0	$1,643	$0	$0	$1,643
T08		CWI	*U.C. per ea*		*4*	*$36.51*	*146.04*	*0*	*0*	*0*	*0*	*146.04*
	ILLUSTRATOR/ARTIST		1.00	ea	4	T08	$146	$0	$0	$0	$0	$146
X12		CWI	*U.C. per ea*		*315*	*$47.41*	*14934.15*	*0*	*0*	*0*	*0*	*14934.15*
	ENVIRONMENTAL RESTORATION		1.00	ea	315	X12	$14,934	$0	$0	$0	$0	$14,934
Z09		CWI	*U.C. per ea*		*73*	*$72.73*	*5309.29*	*0*	*0*	*0*	*0*	*5309.29*
	SUPERVISOR, SCI/ENG FUNC		1.00	ea	73	Z09	$5,309	$0	$0	$0	$0	$5,309
NM60		CWI	*U.C. per LS*	NM60			*0*	*0*	*8747*	*0*	*0*	*8747*
	OTHER-DIRECT PURCHASES		1.00	LS	0		$0	$0	$8,747	$0	$0	$8,747
NM80		CWI	*U.C. per LS*	NM80			*0*	*0*	*0*	*155*	*0*	*155*
	OTHER - SERVICES		1.00	LS	0		$0	$0	$0	$155	$0	$155
		CWI	*U.C. per LS*				*0*	*0*	*0*	*0*	*0.01*	*0.01*
	Establish Team		1.00	LS	0		$0	$0	$0	$0	$0	$0
Z09		CWI	*U.C. per ea*		*54*	*$72.73*	*3927.42*	*0*	*0*	*0*	*0*	*3927.42*
	SUPERVISOR, SCI/ENG FUNC		1.00	ea	54	Z09	$3,927	$0	$0	$0	$0	$3,927

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor		Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TOTAL
Five Year Reviews													
Memo:	***Establish guideline, review remedy, write report, review report, publish report. Based on FY 2004 OU 1-10 LTS and Five Year Review actual costs. Beginning in 2013,.....***												
NM60		CWI	*U.C. per LS*		NM60			*0*	*0*	*1527*	*0*	*0*	*1527*
	OTHER-DIRECT PURCHASES			1.00	LS	0		$0	$0	$1,527	$0	$0	$1,527
Subtotal								$30,426	$0	$14,496	$155	$0	$45,077
Sales Tax								$0	$0	$0	$0	$0	$0
Overheads			0.00%					$0	$0	$0	$0	$0	$0
Subtotal Estimate													**$45,077**
Escalation								$0	$0	$0	$0	$0	$0
Contingency								$4,564	$0	$2,174	$23	$0	$6,762
---Total Five Year Reviews						**530**		**$34,990**	**$0**	**$16,671**	**$178**	**$0**	**$51,839**

Update Institutional Controls Plan (Annual)

Memo: ***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***

X12		CWI	*U.C. per ea*			*260*	*$47.41*	*12326.6*	*0*	*0*	*0*	*0*	*12326.6*
	ENVIRONMENTAL RESTORATION			1.00	ea	260	X12	$12,327	$0	$0	$0	$0	$12,327
Memo: For prep, tech edit, doc control.													
NRPG		CWI	*U.C. per hrs*		NRPG			*0*	*0*	*58.69*	*0*	*0*	*58.69*
	WRITER/EDITOR			60.00	hrs	0		$0	$0	$3,521	$0	$0	$3,521
Memo: For tech edit													
NRPR		CWI	*U.C. per hrs*		NRPR			*0*	*0*	*38.38*	*0*	*0*	*38.38*
	RECORDS MANAGEMENT			18.00	hrs	0		$0	$0	$691	$0	$0	$691
Memo: For prep doc control.													
S05		CWI	*U.C. per ea*			*14*	*$60.57*	*847.98*	*0*	*0*	*0*	*0*	*847.98*
	GEOLOGY			1.00	ea	14	S05	$848	$0	$0	$0	$0	$848
Memo: ORB review													

Material Costs where applicable include Idaho State Sales Tax

DETAIL ITEM REPORT

Project Name: ***WAG 3***
OU 3-14 RI/FS Alternative 4b: Institutional Controls, Monitoring, Source Treatmen
Project Location: ***INTEC Tank Farm***
Estimate Number: ***2966-M-4b***

Client: ***L. Cahn, 6-3080***
Prepared By: ***J. Folker, 6-0322***
Estimate Type: ***Project Support***

Code	Description	Contractor	Qty	UOM	Hrs	Resource	Labor	Equipment	Material	Subcontractor	Other	TO
Update Institutional Controls Plan (Annual)												
Memo:	***IC annual report-ORB review, incorporate agency comments, revise IC plan, prep, graphic support, tech edit, doc control, revise IC plan-ORB review. Ref WBS P.4.C1.03.02 Institutional Controls Estimate. ID # ERM3200045. 1 year costs. Please note that RA report is N/A.***											
X12	CWI	*U.C. per ea*			*22*	*$47.41*	*1043.02*	*0*	*0*	*0*	*0*	
	ENVIRONMENTAL RESTORATION		1.00	ea	22	X12	$1,043	$0	$0	$0	$0	
Memo: Incorporate ORB, agency comments.												
	Subtotal						$14,218	$0	$4,212	$0	$0	$
	Sales Tax						$0	$0	$0	$0	$0	
	Overheads	0.00%					$0	$0	$0	$0	$0	
	Subtotal Estimate											$
	Escalation						$0	$0	$0	$0	$0	
	Contingency						$2,133	$0	$632	$0	$0	
—Total	**Update Institutional Controls Plan (Annual)**				**296**		**$16,350**	**$0**	**$4,844**	**$0**	**$0**	**$**
	Subtotal	OU 3-14 FS ALTERNATIVE 4b: INST CTRLS, MONITORING,					$3,220,071	$478,131	$1,585,267	$5,421,562	$497,472	$11,20
	Sales Tax	SOURCE TREAT. & CONTAINMENT					$0	$0	$0	$0	$0	
	Overheads						$162,379	$114,291	$0	$1,092,603	$0	$1,36
	Subtotal Estimate						$0	$0	$0	$0	$0	$12,57
	Escalation						$482,192	$185,327	$784,903	$1,745,579	$218,258	
	Contingency											$3,41
	Total OU 3-14 FS ALTERNATIVE 4b: INST CTRLS, MONITORING, SOURCE TREAT. & CONTAINMENT				25,591		$3,864,642	$777,748	$2,370,170	$8,259,743	$715,729	$15,98

Material Costs where applicable include Idaho State Sales Tax