DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3A
Excavate, Treatment (Cement Stabilization) & On Site Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Remedial Action - Operations (100 Year Duration)									
	Program Management									
	Coordination/Oversight of Technical Support	N/A								N/A
	Coordination with Agency Participants	N/A								N/A
	Cost and Schedule Control	N/A								N/A
	Ensure Compliance of Gov't Regulation	N/A								N/A
	Reviews	N/A								N/A
	Audit Preparation and Coordination	N/A								N/A
	Annual Operations and Maintenance Reports	N/A								N/A
	Total Cost (Per Year)									N/A
	Program Management Costs - 100 Year Duration	100 years	N/A							N/A
	Continued CFA Caretaker/Maintenance									
	Caretaker	N/A								N/A
	Fencing Maintenance	N/A								N/A
	Continued CFA Caretaker/Maintenance Cost Per Year									N/A
	Caretaker Cost - 100 Year Duration	100 years	N/A							N/A
	Operations, Maintenance, Materials and Disposal	N/A								N/A
	D&D of Facilities	N/A								N/A

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3A
Excavate, Treatment (Cement Stabilization) & On Site Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Surveillance and Monitoring (annual sampling & monitoring activities) - Assumes groundwater monitoring is not required.									
	Ground Water Sampling/Monitoring, Maint. Insp./Report	N/A								N/A
	Gamma Surveys using Hand Held Dectors - 1 per year	100 years		40	4,000	75	300,000			300,000
	5-Year Review Report	20 times	6,000					120,000		120,000
	note: gamma survey's will be required.									
	Surveillance and Monitoring Costs - 100 Year Duration									**420,000**

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	FFA/CO Management and Oversight									
	Program Management									
	Coordination/Oversight of Technical Support	1 person		640	640	75	48,000			48,000
	Coordination with Agency Participants	1 person		320	320	75	24,000			24,000
	Cost and Schedule Control	1 person		320	320	65	20,800			20,800
	Ensure Compliance of Gov't Regulation	1 person		160	160	70	11,200			11,200
	Quarterly and Yearly Reviews	1 person		160	160	65	10,400			10,400
	Audit Preparation and Coordination	1 person		160	160	65	10,400			10,400
	Total Cost (Per Year)									124,800
	Total Cost (Per Year Rounded)	-								125,000
	Program Management - .5 year duration during the design stages,	3.50 year	125,000					437,500		**437,500**
	a 2 year duration during the construction period and a 1 year duration after.									
	RA Document Preparation									
	RD/RA SOW									
	PreDesign Studies/Preliminary Scoping	3 person		80	240	75	18,000			18,000
	Design Criteria	1 person		40	40	75	3,000			3,000
	RD/RA SOW Preparation	1 person		80	80	75	6,000			6,000
	Reviews and Comment Resolution	1 person		360	360	75	27,000			27,000
	RD/RA SOW Cost									**54,000**
	RA Workplan									
	Preliminary Scoping	1 person		160	160	75	12,000			12,000
	RD/RA SOW Work Plan	1 person		260	260	75	19,500			19,500
	Reviews and Comment Resolution	1 person		420	420	75	31,500			31,500
	RA Workplan Cost									**63,000**

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	RA Document Preparation (cont.)									
	Packaging, Shipping, Transportation Documentation Cost - one for the off site disposal									
	Sampling and Analysis	1 person		240	240	75	18,000			18,000
	Hazard Classification	1 person		200	200	75	15,000			15,000
	Selection and Procurement of Packaging	1 person		80	80	75	6,000			6,000
	Reviews and Comment Resolution	1 person		520	520	75	39,000			39,000
	Packaging, Shipping, Transportation Documentation Cost									**78,000**
	Remedial Action Report									
	RA Report Preparation	1 person		320	320	75	24,000			24,000
	Reviews and Comment Resolution	1 person		320	320	75	24,000			24,000
	Remedial Action Report Cost									**48,000**
	WAG-Wide RA 5 Yr. Review - (Cost Per Each, Required (1/4) FTE For Years 1 thru 5; (1/4) FTE in (5) Yr. Increments for 6 thru 95)									
	5 Year Review Preparation	23 years		350	8,050	75	603,750			604,000
	Reviews and Comment Resolution	23 years		120	2,760	75	207,000			207,000
	WAG-Wide RA 5 Yr. Reviews For 100 Years									**811,000**
	RD Document Preparation									
	Safety Analysis Documentation (ASA & HSP)									
	Auditable Safety Analysis/Hazards Classification	2 person		160	320	75	24,000			24,000
	Unresolved Safety Questions	2 person		160	320	75	24,000			24,000
	Quality Assurance	1 person		30	30	75	2,250			2,250
	Reviews and Comment Resolution	2 person		335	670	75	50,250			50,250
	Safety Analysis Documentation Cost									**100,500**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Sampling and Analysis Plan									
	Preliminary Scoping	1 person		320	320	75	24,000			24,000
	Field Sampling Plan Preparation	1 person		400	400	75	30,000			30,000
	Reviews and Comment Resolution	1 person		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost									**108,000**
	RD Document Preparation (cont.)									
	Pre-Final Inspection Report									
	Checklist Preparation	1 person		40	40	75	3,000			3,000
	Reviews and Comment Resolution	1 person		60	60	75	4,500			4,500
	Pre-Final Inspection Report Cost									**7,500**
	Remedial Design									
	Added Institutional Controls - 5 Yr. Review of Deed Restrictions with Governing Bodies and Public Comment Over a 100 Year Period; Total of 20 Reviews.									
	Legal Attorney and Env. Affairs at $10K ea.	20 each	10,000					200,000		200,000
	Total Added Institutional Controls - 100 Year Duration									**200,000**
	Title Design Construction Document Package									
	Remedial Design and Work Plan	1 person		40	40	75	3,000			3,000
	Siting and Surveying	1 lot		20	20	75	1,500			1,500
	Review and Revise Final Design	10 drwngs	2000					20,000		20,000
	Final Design of Construction Package	10 drwngs	3500					35,000		35,000
	Title Design Construction Document Package									**59,500**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Remedial Action -									
	Site Characterization - Sampling and Analysis									
	note: given excavation volume = 8,290 cuyds,									
	assuming excavation equals 30 cuyds per hour then 8,290 cuyds/30 cuyds per hour = 276 crew hours									
	276 crew hours / 8 hours per day x 75% efficiency factor = 46 days / 20 working days per month = 2.3 months.									
	Site Area	74,300 sqft								for information only
	Soil Volume	8,290 cuyd								for information only
	Excavation Duration	9 months								for information only
	SMO - Sample Prep, SOW, Analysis of Data, Tracking, etc.	2 year		2,008	4,016	100	401,600			401,600
	Characterization of extent: assume min. of 10 samples per site; max of 1 sample per 1000 sqft of site area.									
	Total Hg w/ Prep	74 samples	30					2,229		2,229
	Gamma	74 samples	63					4,681		4,681
	Sample Collection - includes labels, shipping, documentation, etc.	74 samples		0.50	37	50	1,858			1,858
	Off Site Soil Respository Waste Acceptance Criteria (WAC) - 4 samples per site									
	Organic Sampling:									
	VOC 's	4 samples	160					640		640
	SVOC's	4 samples	320					1,280		1,280
	Pesticides	4 samples	120					480		480
	TCLP VOC's	4 samples	150					600		600
	TCLP SVOC's	4 samples	200					800		800
	TCLP Pesticides	4 samples	120					480		480
	TCLP Metals	4 samples	925					3,700		3,700
	RAD Sampling:									
	Gamma Spec.	4 samples	63					252		252
	Gross Alpha	4 samples	32					128		128
	Alpha Spec.	4 samples	652					2,608		2,608
	Site Characterization - Sampling and Analysis subtotal this page									421,335

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Site Characterization - Sampling and Analysis subtotal previous page									421,335
	RAD Sampling cont..									
	Beta Analysis	4 samples	85					340		340
	Inorganic Sampling:									
	Cyanides	4 samples	30					120		120
	Total Metals	4 samples	190					760		760
	Prep for Total Metals	4 samples	66					264		264
	Anions	4 samples	105					420		420
	Prep for Anions	4 samples	50					200		200
	pH	4 samples	18					72		72
	Total Hg w/ Prep	4 samples	30					120		120
	Sample Collection During Excavation -	9 months		172.00	1,548	50	77,400			77,400
	includes labels, shipping, documentation, etc.									
	Soil Characterization during Excavation @ 1 per 10 cuyd									
	TCLP - Hg	829 each	455					377,195		377,195
	Site Verification Sampling: assume min. of 3 samples per site; max of 1 sample per 1000 sqft of site area.									
	Total Hg w/ Prep	74 samples	30					2,229		2,229
	Gamma	74 samples	63					4,681		4,681
	Sample Collection - includes labels, shipping, documentation, etc.	74 samples		0.50	37	50	1,858			1,858
	Data Validation Based Upon 10% of the Sampling Cost	886,994 sample$	0.1					88,699		88,699
	Handling (5%), G&A(27%), PIF (4.5%) & Procurment (2.5%)	975,693 total$	0.4283					417,889		417,889
	Site Characterization - Sampling and Analysis									**1,394,000**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Construction Subcontract - (to begin in the year 2000)									
	Excavation of Soils	8,290 cuyd		0.035	290.15	150	43,523			43,523
	Mobilization of Government Leased 74 cuyd rail gondolas to the	112 railcars	GFE							
	INEEL for Shipment of soils.									
	Load, Ship & Return (railcars) to the an approved	112 railcars	GFE	4	448	150	67,216			67,216
	RCRA Off Site Facility for disposal using 74 cuyd railcars.									
	Treatment and Disposal of Soil - assumed to meet LLW criteria	8,290 cuyd	GFE							
	Import and Place Fill Materials to bring pond to grade	27,000 cuyd	10					270,000		270,000
	Revegetate Pond	1 lot	2500					2,500		2,500
	Mobilization/Demobilization @ 3% of above construction cost	383,239 const$	0.03					11,497		11,497
	Training's	12 person		24	288	35	10,080			10,080
	Project Supervision	12 months		170	2,040	40	81,600			81,600
	Project Support Personnel - Safety & IH	12 months		340	4,080	35	142,800			142,800
	Project Booties, Gloves, Masks, Signage, etc..	1 lot	12000					12,000		12,000
	Construction Subcontract Subtotal this page									641,216

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Construction Subcontract Subtotal previous page									641,216
	Total Construction Subcontract Direct Cost									641,000
	Construction Subcontract Overhead and Profit @ 30%									192,300
	Total Construction Subcontract Direct and Indirect Cost									*833,000*
	GFE Disposal:									
	Mobilization of Government Leased 74 cuyd rail gondolas to the	112 railcars	6000					672,162		672,162
	INEEL for Shipment of soils.									
	Load, Ship & Return (railcars) to the an approved	112 railcars	6000					672,162		672,162
	RCRA Off Site Facility for disposal using 74 cuyd railcars.									
	Treatment and Disposal of Soil	8,290 cuyd	400					3,316,000		3,316,000
	GFE Disposal Cost									*4,660,000*
	Procurement Fees @ 2.5%									*137,325*
	G&A and PIF Fee Allowance @ 33%									*1,759,614*
	Construction Subcontract & GFE - Total Amount									**7,390,000**
	Project/Construction Management Allowance									
	Project/Construction Management @ 22.06% of Const. Subcontract Cost									183,760
	Project/Construction Management Allowance									**183,760**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Remedial Action - Operations (100 Year Duration)									
	Program Management									
	Coordination/Oversight of Technical Support	N/A								N/A
	Coordination with Agency Participants	N/A								N/A
	Cost and Schedule Control	N/A								N/A
	Ensure Compliance of Gov't Regulation	N/A								N/A
	Reviews	N/A								N/A
	Audit Preparation and Coordination	N/A								N/A
	Annual Operations and Maintenance Reports	N/A								N/A
	Total Cost (Per Year)									N/A
	Program Management Costs - 100 Year Duration	100 years	N/A							**N/A**
	Continued CFA Caretaker/Maintenance									
	Caretaker	N/A								N/A
	Fencing Maintenance	N/A								N/A
	Continued CFA Caretaker/Maintenance Cost Per Year									N/A
	Caretaker Cost - 100 Year Duration	100 years	N/A							**N/A**
	Operations, Maintenance, Materials and Disposal	N/A								**N/A**
	D&D of Facilities	N/A								**N/A**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #3B
Excavate, Off Site Treatment and Disposal

Type of Estimate: Planning **File No:** 3951 - D

Date: 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Surveillance and Monitoring (annual sampling & monitoring activities) - Assumes groundwater monitoring is not required.									
	Ground Water Sampling/Monitoring, Maint. Insp./Report	N/A								N/A
	Gamma Surveys using Hand Held Dectors - 1 per year	100 years		40	4,000	75	300,000			300,000
	5-Year Review Report	20 times	6,000					120,000		120,000
	note: gamma survey's will be required.									
	Surveillance and Monitoring Costs - 100 Year Duration									**420,000**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #4
Containment with ET - Type Cap Cover

Type of Estimate: Planning **File No:** 3951 - D

Date: 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	FFA/CO Management and Oversight									
	Program Management									
	Coordination/Oversight of Technical Support	1 person		640	640	75	48,000			48,000
	Coordination with Agency Participants	1 person		320	320	75	24,000			24,000
	Cost and Schedule Control	1 person		320	320	65	20,800			20,800
	Ensure Compliance of Gov't Regulation	1 person		160	160	70	11,200			11,200
	Quarterly and Yearly Reviews	1 person		160	160	65	10,400			10,400
	Audit Preparation and Coordination	1 person		160	160	65	10,400			10,400
	Total Cost (Per Year)									124,800
	Total Cost (Per Year Rounded)	-								125,000
	Program Management - .5 year duration during the design stages,	2 years	125,000					250,000		**250,000**
	.5 year duration during the construction period and a 1 year duration after.									
	RA Document Preparation									
	RD/RA SOW									
	PreDesign Studies/Preliminary Scoping	3 person		80	240	75	18,000			18,000
	Design Criteria	1 person		40	40	75	3,000			3,000
	RD/RA SOW Preparation	1 person		80	80	75	6,000			6,000
	Reviews and Comment Resolution	1 person		360	360	75	27,000			27,000
	RD/RA SOW Cost									**54,000**
	RA Workplan									
	Preliminary Scoping	1 person		160	160	75	12,000			12,000
	RD/RA SOW Work Plan	1 person		260	260	75	19,500			19,500
	Reviews and Comment Resolution	1 person		420	420	75	31,500			31,500
	RA Workplan Cost									**63,000**

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #4
Containment with ET - Type Cap Cover

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	RA Document Preparation (cont.)									
	Packaging, Shipping, Transportation Documentation Cost									
	Sampling and Analysis	N/A								N/A
	Hazard Classification	N/A								N/A
	Selection and Procurement of Packaging	N/A								N/A
	Reviews and Comment Resolution	N/A								N/A
	Packaging, Shipping, Transportation Documentation Cost									**N/A**
	Remedial Action Report									
	RA Report Preparation	1 person		320	320	75	24,000			24,000
	Reviews and Comment Resolution	1 person		320	320	75	24,000			24,000
	Remedial Action Report Cost									**48,000**
	WAG-Wide RA 5 Yr. Review - (Cost Per Each, Required (1/4) FTE For Years 1 thru 5; (1/4) FTE in (5) Yr. Increments for 6 thru 95)									
	5 Year Review Preparation	23 years		350	8,050	75	603,750			604,000
	Reviews and Comment Resolution	23 years		102	2,346	75	175,950			176,000
	WAG-Wide RA 5 Yr. Reviews For 100 Years									**780,000**
	RD Document Preparation									
	Safety Analysis Documentation (ASA & HSP)									
	Auditable Safety Analysis/Hazards Classification	2 person		160	320	75	24,000			24,000
	Unresolved Safety Questions	2 person		160	320	75	24,000			24,000
	Quality Assurance	1 person		30	30	75	2,250			2,250
	Reviews and Comment Resolution	2 person		335	670	75	50,250			50,250
	Safety Analysis Documentation Cost									**100,500**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #4
Containment with ET - Type Cap Cover

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Sampling and Analysis Plan									
	Preliminary Scoping	1 person		320	320	75	24,000			24,000
	Field Sampling Plan Preparation	1 person		400	400	75	30,000			30,000
	Reviews and Comment Resolution	1 person		720	720	75	54,000			54,000
	Sampling and Analysis Plan Cost									**108,000**
	RD Document Preparation (cont.)									
	Pre-Final Inspection Report									
	Checklist Preparation	1 person		40	40	75	3,000			3,000
	Reviews and Comment Resolution	1 person		60	60	75	4,500			4,500
	Pre-Final Inspection Report Cost									**7,500**
	Remedial Design									
	Added Institutional Controls - 5 Yr. Review of Deed Restrictions with Governing Bodies and Public Comment Over a 100 Year Period; Total of 20 Reviews.									
	Legal Attorney and Env. Affairs at $10K ea.	2 person		160	100	100	10,000			10,000
	Total Added Institutional Controls - 100 Year Duration	20 each	10,000							**200,000**
	Title Design Construction Document Package									
	Remedial Design and Work Plan	1 person		40	40	75	3,000			3,000
	Siting and Surveying	1 lot		20	20	75	1,500			1,500
	Review and Revise Final Design	10 drwngs	2000					20,000		20,000
	Final Design of Construction Package	10 drwngs	3500					35,000		35,000
	Title Design Construction Document Package									**59,500**

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #4
Containment with ET - Type Cap Cover

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Remedial Action -									
	Site Characterization - Sampling and Analysis									
	SMO - Sample Prep, SOW, Analysis of Data, Tracking, etc.	1 year		2,008	2,008	100	200,800			200,800
	Hg (1 sample per 1000 sqft) Only	74 sample	30					2,220		2,220
	Total Gamma (1 sample per 1000 sqft) Only	74 sample	63					4,662		4,662
	Sample Collection - includes labels, shipping, documentation, etc.	74 samples		0.50	37	50	1,850			1,850
	Data Validation Based Upon 10% of the Sampling Cost	209,532 sample$	0.1					20,953		20,953
	Handling (5%), G&A(27%), PIF (4.5%) & Procurment (2.5%)	230,485 total$	0.4283					98,717		98,717
	Site Characterization - Sampling and Analysis									**329,000**
	Construction Subcontract - (to begin in the year 2000)									
	Clear and Grub Site	175,000 sqft	0.05					8,750		8,750
	Excavation of Perimeter Gravel Drain System	900 cuyd	8					7,200		7,200
	Install Gravel for Drain	900 cuyd	35					31,500		31,500
	Install Perimeter Drain Piping	1,550 lnft	18					27,900		27,900
	Install Geotextile Layer	9,000 sqyd	9					81,000		81,000
	Import & Place 10' avg. Fill to Level Site - imported mat'ls on INEEL	46,167 cuyd	8					369,336		369,336
	Import & Place 24" Cobble Layer - imported mat'ls from Idaho Falls	7,407 cuyd	25					185,175		185,175
	Import & Place 6" Gravel Layer - imported mat'ls from Idaho Falls	1,852 cuyd	35					64,820		64,820
	Import & Place 4.1' Soil Layer - imported mat'ls on INEEL	15,185 cuyd	8					121,480		121,480
	Import & Place 6" Gravel Mulch - imported mat'ls from Idaho Falls	1,852 cuyd	40					74,080		74,080
	Misc. Revegetation & Reclaimation	100,000 sqft	0.05					5,000		5,000
	Install Perimeter Fencing w/ Gates and Signage	1,700 lnft	20					34,000		34,000
	Mobilization/Demobilization @ 3% of above construction cost	1,010,241 const$	0.03					30,307		30,307
	Training's	8 person		24	192	35	6,720			6,720
	Project Supervision	6 months		170	1,020	40	40,800			40,800
	Project Support Personnel - Safety & IH	6 months		340	2,040	35	71,400			71,400
	Construction Subcontract Subtotal this page									1,159,468

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
Alternative #4
Containment with ET - Type Cap Cover

Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
Prep'd By: J. R. Baker

ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Construction Subcontract Subtotal previous page									1,159,468
	Project Booties, Gloves, Masks, Signage, etc..	1 lot	5000					5,000		5,000
	Construction Surveying and Staking	2 months		170	340	95	32,300			32,300
	Total Construction Subcontract Direct Cost									1,197,000
	Construction Subcontract Overhead and Profit @ 30%									359,100
	Total Construction Subcontract Direct and Indirect Cost									1,556,000
	Procurement Fees @ 2.5%									38,900
	G&A and PIF Fee Allowance @ 33%									*513,480*
	Construction Subcontract - Total Amount									**2,108,000**
	Project/Construction Management Allowance									
	Project/Construction Management @ 22.06% of Const. Subcontract Cost									343,000
	Project/Construction Management Allowance									**343,000**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
Central Facilities Area (CFA) - 04: Disposal Pond at CFA 674
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Type of Estimate: Planning **File No:** 3951 - D **Date:** 01/29/99
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ACCT. NO.	DESCRIPTION	QUANTITY UNIT	MAT'L UT. COST	LBR/EQP UNIT HRS	LBR/EQP TOTAL HRS	LBR/EQP RATE	LBR/EQP COST	MAT'L COST	OTHER COST	TOTAL COST
	Remedial Action - Operations (100 Year Duration)									
	Program Management									
	Coordination/Oversight of Technical Support	1 person		200	200	75	15,000			15,000
	Coordination with Agency Participants	1 person		80	80	75	6,000			6,000
	Cost and Schedule Control	1 person		59	59	65	3,848			3,848
	Ensure Compliance of Gov't Regulation	1 person		32	32	70	2,240			2,240
	Reviews	1 person		32	32	65	2,080			2,080
	Audit Preparation and Coordination	1 person		32	32	65	2,080			2,080
	Annual Operations and Maintenance Reports	1 person		40	40	65	2,600			2,600
	Total Cost (Per Year)									33,850
	Program Management Costs - 100 Year Duration	100 years	33,850					3,385,000		**3,385,000**
	Continued CFA Caretaker/Maintenance									
	Caretaker	1 person		188	188	75	14,100			14,100
	Fencing Maintenance	1700 lnft	1					1,700		1,700
	Cap Maintenance	74,300 sqft	0.04					2,972		2,972
	Continued CFA Caretaker/Maintenance Cost Per Year									18,770
	Caretaker Cost - 100 Year Duration	100 years	18,770					1,877,000		**1,877,000**
	Operations, Maintenance, Materials and Disposal	N/A								**N/A**
	D&D of Facilities	N/A								**N/A**

DETAILED COST ESTIMATE (CONT.SHEET)

Project OU 4-13 Waste Area Group (WAG) 4 FS Cost Estimates
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	Surveillance and Monitoring (annual sampling & monitoring activities) - Assumes groundwater monitoring is not required.									
	Ground Water Sampling/Monitoring, Maint. Insp./Report	N/A								N/A
	Gamma Surveys using Hand Held Dectors - 1 per year	100 years		40	4,000	75	300,000			300,000
	5-Year Review Report	20 times	6,000					120,000		120,000
	note: gamma survey's will be required.									
	Surveillance and Monitoring Costs - 100 Year Duration									**420,000**