APPENDIX F

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RECLAMATION PLAN COST ESTIMATE
LICENSE NO. SUA-1475
UNITED NUCLEAR CORPORATION CHURCH ROCK FACILITY
GALLUP, NEW MEXICO

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This document presents a cost estimate for performance of the remaining reclamation activities at United Nuclear Corporation's (United Nuclear) Church Rock uranium mill and tailings disposal facility near Gallup, New Mexico. The cost estimate has been prepared to satisfy the requirements of Criteria 9 and 10 of 10 Code of Federal Regulations 40, Appendix A. This estimate supersedes the reclamation plan cost estimate submitted to the Nuclear Regulatory Commission (NRC) in August 1988. The reclamation plan estimated in August 1988 has been amended on several occasions. It was approved in March 1991 with several significant technical changes from the original submittal, thus requiring a new estimate.

The August 1988 cost estimate reflected the cost of the proposed reclamation plan, which consisted of three distinct phases of activity identified as interim stabilization, seepage collection, and final reclamation.

Interim stabilization consisted mainly of activities responsive to the continuing NRC concern regarding placement of interim cover over tailings, cleanup of wind-blown tailings, and decommissioning of the mill. It required that the tailings disposal area be regraded to its final configuration and that 1 foot of the originally project 4 feet of radon attenuation soil cover be placed over the tailings. It also called for the cleanup of wind-blown tailings and decommissioning of the mill.

Seepage collection called for construction of two 5-acre lined evaporation ponds, drilling of a series of seepage collection and monitoring wells, and installation of an enhanced evaporation system. The seepage collection system was designed to operate until 1995.

Final reclamation was to consist of significant excavation of the Pipeline Arroyo to route large flood events away from the tailings facility as quickly as possible and placement of the remaining 3 feet of radon attenuating soil cover over the tailings. It also called for decommissioning of the seepage collection system and construction of permanent drainageways.

Since the time United Nuclear submitted the original cost estimate, the company has proceeded to implement the plan as required by various NRC license amendments and an Environmental Protection Agency (EPA) Administrative Order. This order also resulted in the requirement that United Nuclear provide the EPA with a $3 million Letter of Credit to cover the cost of the seepage collection program.

The reclamation accomplished to date consists of regrading and placing 1 foot of the radon attenuation soil cover over two-thirds of the tailings disposal facility and cleanup of all windblown tailings. The evaporation ponds have been constructed, seepage collection and monitoring wells drilled, and the enhanced evaporation system installed. The seepage collection system has been in operation since October 1989. To date, United Nuclear has expended approximately $3.8 million on reclamation. The EPA Letter of Credit has since been reduced to $2.5 million.

Also, since the time United Nuclear submitted the original cost estimate, several components of the reclamation plan have changed significantly, particularly in the area of final reclamation. As a result of NRC concerns, the design was changed such that an erosion protection layer consisting of a 6-inch soil/rock matrix will be placed on top of the radon attenuation soil cover. Additional water diversion swales will be constructed on the cover, and 3 inches of rock mulch will be added to all swales and onto the face of the dam. The Pipeline Arroyo will no longer be extensively excavated. Instead, a buried rock jetty will be constructed across the valley from the nickpoint to the dam to stabilize the nickpoint outcrop. Also, the 4-foot radon attenuation soil cover

has been reduced to 1.5 feet based on actual geotechnical characteristics of the soil compared to those assumed for design purposes.

Details of the modified plan as approved by the NRC are contained in various submittals to the NRC. These submittals will be consolidated into a single comprehensive package and provided to the NRC per license condition No. 34.

This cost estimate presents the cost estimated to complete the work described in the approved reclamation plan. It includes the following activities:

1. Phase I - Remaining Interim Stabilization

    - Regrading the tailings and placing 1 foot of radon attenuating soil cover on the remaining exposed tailings.

    - Decommissioning of the mill including the ore pad and catch basins.

2. Phase II - Seepage Cleanup

    - Installation of additional seepage collection wells.

    - Operation of the system.

3. Phase III - Final Reclamation

    - Placement of the final 6 inches of radon attenuating soil cover and the 6-inch soil/rock matrix erosion protection layer over the tailings area.

- Construction of all swales and diversion ditches, and placement of 3 inches of rock mulch.

- Construction of the buried jetty.

The estimate assumes that all reclamation construction activities will be performed in an expedited fashion progressing to final reclamation, except that the seepage collection program constrains the schedule by the rate at which seepage can be removed from the geologic formations.

Table 1 provides a summary of estimated costs for the reclamation activities. As identified by this table, the total direct cost to the contractor (labor, equipment, materials) for performance of this work by a third party is estimated to be $7,369,438. The direct cost was subsequently increased by 15 percent for contractor overhead and profit, by 15 percent for contingencies as recommended by the NRC, and by 5.625 percent to account for the New Mexico gross receipts tax. The long-term surveillance costs (i.e., $250,000 in 1978 dollars equal to $494,000 in 1991 dollars) has also been added. The total estimated cost for conducting the remaining reclamation is $10,716,793.

Details of construction direct cost estimates, including the hourly wage rates used for categories of reclamation personnel, equipment rates for construction equipment, materials prices, on-site overhead items, and labor/equipment spread for each primary component of reclamation are provided in Appendices A, B, and C for the remaining interim stabilization, seepage collection, and final reclamation phase of the plan, respectively.

Interim Stabilization

This phase consists of completion of the interim stabilization activity described in the original estimate as modified by the approved plan. It basically consists of regrading the tailings to their final configuration and placing a minimum of 12 inches of clean borrow soils over the regraded tailings surface to construct the radon attenuation soil cover. In this phase, the mill will also be decommissioned and disposed of in Borrow Pit No. 2 of the tailings facility. The total estimated direct cost for this phase is $1,733,201. The cost estimate for interim stabilization in Appendix A presents detailed costing for the following activities:

1. Mobilization;

2. Haul/access road construction;

3. Regrading of the tailings in preparation for soil cover;

4. Excavation and regrading of the tailings retention embankment to provide soil cover material;

5. Placement of 12 inches of soil cover over the regraded tailings;

6. Construction of drainages to prevent adverse effects due to runoff;

7. Decommissioning and demolishing of the mill;

8. Decontamination of ore pads and catch basins;

9. Site supervision;

10. Radiological monitoring;

11. Site security;

12. Quality assurance/quality control;

13. Associated precautionary and health and safety measures and jobsite overheads; and

14. Demobilization.

Seepage Collection

This phase is designed to expand and continue to operate the seepage collection program approved by the NRC and the EPA. Seepage collection is ongoing at the present time and will continue into the final reclamation cover period. The total estimated direct cost for seepage collection is $2,447,992. The cost estimate for seepage collection in Appendix B presents detailed costing for the following activities:

1. Installation of eight new wells;

2. Installation of the electrical system for these new wells;

3. Operation of the seepage collection system until 1995;

4. Plugging 290 wells; and

5. Annual water quality reporting.

Final Reclamation Cover

Activities in this phase consist primarily of completing the placement of the radon attenuating soil cover over the tailings by placing the additional 6 inches of soil over the already placed 1 foot, placement of the 6-inch soil/rock matrix for erosion protection, construction of the swale and diversion channels, placement of 3 inches of rock mulch in the swales and on the dam face, closure of the evaporation ponds, decommissioning of the seepage collection system, and construction of the buried jetty. The total estimated direct cost for final reclamation is $3,188,245. The cost estimate for final reclamation in Appendix C presents detailed costing of the following activities:

1. Mobilization;

2. Clearing and grubbing of vegetation;

3. Final soil cover placement (1.5 feet total thickness);

4. Final backfill and covering of Borrow Pit No. 2;

5. Radiological monitoring;

6. Site security;

7. Quality assurance/quality control;

8. Associated precautionary and health and safety measures and jobsite overheads;

9. Demobilization; and

10. Site supervision.

TABLES

TABLE 1

SUMMARY OF TOTAL ESTIMATED REMAINING RECLAMATION COSTS

Item Description	Estimated Cost (1991 dollars)
Interim Stabilization Direct Cost	1,733,201
Seepage Collection Direct Cost	2,447,992
Final Reclamation Direct Cost	3,188,245
Subtotal	7,369,438
Contractor Profit and Overhead (15 percent)	1,105,416
Subtotal	8,474,854
Contingency (15 percent)	1,271,228
New Mexico Gross Receipts Tax (5.625 percent)	476,711
Subtotal	10,222,793
Long-term Surveillance	494,000
Total Estimated Reclamation Cost	10,716,793

ATTACHMENT A

INTERIM STABILIZATION

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 1 OF SHT 21

JOB NO.: 86-60-26

DATE: 06-Jun-91 TIME: 02:03 PM

ESTIMATE SUMMARY

ITEM DESCRIPTION	DETAIL SHEET	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIAL	SUBS	TRAVEL	UNIT COSTS	TOTAL COSTS
TOTAL FIXED OVERHEADS	SHT 6	1	LS	0	0	0	0	0	5,150		550	0	5,700.00	5,700
VARIABLE JOBSITE OVERHEADS	SHT 7	25	WEEKS	167,900	3,750	24,275	3,375	2,250	12,125		21,000	22,750	10,297.00	257,425
MOBILIZATION	SHT 8	1	LS	5,127	0	541	236	136	0	3,000	28,644	0	37,683.00	37,683
CLEARING AND GRUBBING	SHT 9	10	AC	1,371	0	3,228	417	288	0	0	0	0	530.40	5,304
HAUL/ACCESS ROADS	SHT 10	14,500	SY	1,861	0	4,694	741	509	0	19,383	0	0	1.88	27,188
TAILINGS REGRADING	SHT 11	122,300	CY	19,223	0	71,512	11,146	7,462	0	13,041	0	985	1.01	123,279
EMBANKMENT EXCAVATION	SHT 12	78,000	CY	22,280	0	80,811	11,461	7,998	0	3,000	0	1,470	1.63	127,010
MILL DECOMMISIONING	SHT 13	1	LS	169,305	0	389,005	27,417	23,283	0	0	0	0	609,010.00	609,010
ORE PADS AND CATCH BASINS	SHT 14	103,100	CY	57,731	0	229,075	26,569	16,275	0	3,000	0	4,340	3.27	336,980
SOIL COVER MATERIAL	SHT 15	42,270	CY	1,476	0	2,528	440	415	0	500	0	0	0.13	5,359
MISC. SITE DRAINAGE	SHT 16	1	LS	3,287	0	3,489	414	340	0	9,975	0	0	17,425.00	17,425
DEWATERING PREP.	SHT 17	1	LS	2,912	0	1,193	402	200	0	5,500	0	0	10,207.00	10,207
DEMOBILIZATION	SHT 18	1	LS	9,048	0	954	414	240	0	3,000	21,000	0	34,656.00	34,656
SECURITY SERVICE	SHT 19	25	WK	0	0	0	0	0	0	0	37,050	0	1,482.00	37,050
RADIOLOGICAL MONITORING	SHT 20	25	WK	0	0	0	0	0	42,500	0	0	0	1,700.00	42,500
QUALITY CONTROL	SHT 21	25	WK	35,025	0	14,900	0	0	0	0	0	6,500	2,257.00	56,425
SUBTOTAL				496,546	3,750	826,125	83,011	59,386	69,775	60,399	108,244	36,965		1,733,201

PROJECT: INTERIM REMEDIATION FOR UNC DATE: 06-Jun-91 SHT 3a OF SHT 21

JOB NO.: 86-60-26 TIME: 02:03 PM

WEEKLY WORK HOUR BASIS: ESTIMATOR: WJY

1) PROJECT BASED ON WORKING 50 HOURS PER WEEK.

2) RATES ARE BASED ON PREVAILING RATES IN GALLUP NEW MEXICO.

SUBSISTENCE AND TRAVEL COST CALCULATIONS: AMOUNTS APPLIED TO THE FIRST 40 HOURS OF WORK

S&T CLASS	GENERAL DESCRIPTION	TRAVEL BASIS (WKS/TRP)	TRAVEL COST (PER TRIP)	LODGING COST (PER NIGHT)	SUBSISTENCE COST (PER DAY)	HOURLY COSTS TRAVEL	LODGING	SUBSISTENCE	TOTALS
SALARIED PERSONNEL:									
S1	SALARY, REGIONAL TRAVEL	2	$100	$35	$0	$1.25	$5.25	$0.00	$6.50
S2	SALARY, LOCAL TRAVEL	1	$50	$35	$0	$1.25	$4.38	$0.00	$5.63
S3		1				$0.00	$0.00	$0.00	$0.00
S4		1				$0.00	$0.00	$0.00	$0.00
S5		1				$0.00	$0.00	$0.00	$0.00
HOURLY PERSONNEL:									
H1	HOURLY, REGIONAL TRAVEL	3	$100	$35	$15	$0.83	$5.54	$2.38	$8.75
H2	HOURLY, LOCAL TRAVEL	1	$0	$0	$0	$0.00	$0.00	$0.00	$0.00
H3		1				$0.00	$0.00	$0.00	$0.00
H4		1				$0.00	$0.00	$0.00	$0.00
H5		1				$0.00	$0.00	$0.00	$0.00

TAX AND INSURANCE CALCULATIONS:

	DESCRIPTION	NON-REP	SALARY	REMARKS
*	FUI %	0.80%	0.80%	STANDARD FEDERAL RATE APPLIED TO ALL WAGES PAID
*	SUI %	2.60%	2.60%	RATE VARIES WITH STATE, APPLIES TO ALL WAGES PAID
*	FICA %	7.65%	7.65%	STANDARD FEDERAL RATE APPLIED TO ALL WAGES PAID
	WC %	7.55%	7.55%	VARIES BY CRAFT SEE WAGE RATE TABLE, BASE WAGE ONLY
	HEALTH (MNTHLY)	$350	$350	MONTHLY COST, CANONIE COVERAGE, FIRST 40 HOURS (AVG $350)
	LTL %	N/A	1.18%	SALARY EMPLOYEES ONLY, BASE WAGE ONLY.
	STRAIGHT %	18.60%	19.78%	
*	OVERTIME %	11.05%	11.05%	

PROJECT: INTERIM REMEDIATION FOR UNC DATE: 06-Jun-91 SHT 3b OF SHT 21

JOB NO.: 86-60-26 TIME: 02:03 PM

ESTIMATOR: WJY

WAGE RATE TABLE

	DESCRIPTION	C ESCAL FACTOR MULTIPLIER	D SUB & TRVL CLASS	E BASE WAGE	F (= TAXABLE FRINGES =) VACATION	G ALL OTHER	H (= NON-TXBLE FRNGS =) H&W	I ALL OTHER	J (===== CANONIE ADDITIONS =====) WKRS COMP %'AGE	K HEALTH INS	L SUB & TRAVEL	M STRAIGHT HOURLY BARE HOURLY	N STRAIGHT HOURLY TOTAL HOURLY	O PREMIUM HOURLY BARE HOURLY	P PREMIUM HOURLY TOTAL HOURLY	Q AVG HOURLY BARE HOURLY	R @ 50 HRS TOTAL HOURLY
72	MECHANIC	1.00	H2	$13.00					7.55%	$1.99	$0.00	$13.00	$17.41	$19.50	$22.64	$14.30	$18.45
73	KEY OPERATOR	1.00	H1	$12.00					7.55%	$1.99	$8.75	$12.00	$24.97	$18.00	$20.90	$13.20	$24.16
74	LOCAL OPERATOR	1.00		$12.00					7.55%	$1.99	$0.00	$12.00	$16.22	$18.00	$20.90	$13.20	$17.16
75	OILER	1.00		$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.56
76	KEY LABORER	1.00	H1	$8.00					7.55%	$1.99	$8.75	$8.00	$20.23	$12.00	$13.93	$8.80	$18.97
77	LOCAL LABORER	1.00		$8.00					7.55%	$1.99	$0.00	$8.00	$11.48	$12.00	$13.93	$8.80	$11.97
78	PIPEFITTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
79	ELECTRICIAN	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
80																	
81	CARPENTER FRM.	1.00	H1						7.55%	$0.00	$8.75	$0.00	$8.75	$0.00	$0.00	$0.00	$7.00
82	CARPENTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
83	CEMENT MASONS	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
84	TEAMSTERS	1.00	H1						7.55%	$0.00	$8.75	$0.00	$8.75	$0.00	$0.00	$0.00	$7.00
85																	
86	MECHANIC HELPER	1.00		$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.56
87																	
88																	
89																	
90																	
91																	
92	PROJECT MANAGER	1.00	S1	$28.85					7.55%	$1.99	$6.50	$28.85	$43.04	$0.00	$0.00	$23.08	$34.43
93	SUPERINTENDENT	1.00	S1	$27.76					7.55%	$1.99	$6.50	$27.76	$41.74	$0.00	$0.00	$22.21	$33.40
94	FIELD FORMAN	1.00	H2	$24.48					7.55%	$1.99	$0.00	$24.48	$31.31	$0.00	$0.00	$19.59	$26.06
95	PROJ. ENGINEER	1.00	S1	$23.08					7.55%	$1.99	$6.50	$23.08	$36.13	$0.00	$0.00	$18.46	$28.90
96	H&S OFFICER	1.00	S1	$21.63					7.55%	$1.99	$6.50	$21.63	$34.40	$32.45	$37.93	$23.80	$35.11
97	AST. PROJ. ENG.	1.00	S1	$20.19					7.55%	$1.99	$6.50	$20.19	$32.67	$30.29	$35.40	$22.21	$33.22
98	ENGINEER TECH.	1.00	S1	$18.27					7.55%	$1.99	$6.50	$18.27	$30.37	$27.40	$32.03	$20.10	$30.70
99	OFFICE MANAGER	1.00		$9.50					7.55%	$1.99	$0.00	$9.50	$13.37	$14.25	$16.65	$10.45	$14.02
100	CLERK	1.00		$8.50					7.55%	$1.99	$0.00	$8.50	$12.17	$12.75	$14.90	$9.35	$12.72
101	PROJ. SUPERVISOR	1.00	S1	$24.04					7.55%	$1.99	$6.50	$24.04	$37.28	$36.06	$42.14	$26.44	$38.25
102																	
103																	
104																	

PROJECT: INTERIM REMEDIATION FOR UNC | DATE: 06-Jun-91 | USE TAX RATE =======> 0.00% | SHT 4 OF SHT 21

JOB NO.: 86-60-26 | TIME: 02:03 PM | HOURLY FUEL RATE IS BASED UPON PAYING $1.15 PER GALLON.

ESTIMATOR: WJY

EQUIPMENT RENTAL RATES

BASED ON OPERATING 176 HOURS PER MONTH

DESCRIPTION	TYPE		F MONTHLY RENTAL	G USE TAX	H HOURLY RENTAL 176 HR/MO	I HOURLY FUEL RATE	J HOURLY REPAIRS RATE	K PERIOD USAGE D,W,M	L ADJUSTMENT FACTOR APPLIED
****** INTERNAL EQUIPMENT ******									
121				1.00	$0.00	$2.30	$1.00	M	1.00
122				1.00	$0.00	$1.15	$0.50	M	1.00
123				1.00	$0.00	$0.00	$0.00	M	1.00
124				1.00	$0.00	$1.72	$1.00	M	1.00
125				1.00	$0.00	$0.00	$0.00	M	1.00
126				1.00	$0.00	$0.00	$0.00	M	1.00
127				1.00	$0.00	$0.00	$0.00	M	1.00
128				1.00	$0.00	$0.00	$0.00	M	1.00
129				1.00	$0.00	$0.00	$0.00	M	1.00
130				1.00	$0.00	$0.00	$0.00	M	1.00
131				1.00	$0.00	$0.00	$0.00	M	1.00
****** EXTERNAL EQUIPMENT ******								M	
133 CASE 580 BKH	BACKHOE	(CY)	$1,400	1.00	$7.95	$3.45	$2.00	M	1.00
134 CAT 215 BKH	BACKHOE	(1.25 CY)		1.00	$0.00	$4.60	$3.50	M	1.00
135 CAT 225 BKH	BACKHOE	(1.62 CY)	$7,500	1.00	$42.61	$5.18	$4.25	M	1.00
136 CAT 235 BKH	BACKHOE	(2.75 CY)	$9,000	1.00	$51.14	$7.48	$6.00	M	1.00
137 CAT 245 BKH	BACKHOE W/L STICK	(3.75 CY)	$12,500	1.00	$71.02	$12.65	$7.50	M	1.00
138 CRANE W/BALL	CRANE & BALL		$15,000	1.00	$85.23	$4.02	$3.50	M	1.00
139 CAT 235 BKH|A	BKH WITH ATTACH		$15,000	1.00	$85.23	$4.60	$4.00	M	1.00
140 CAT 950 FEL	FEL	(3.25 CY)		1.00	$0.00	$5.75	$5.00	M	1.00
141 CAT 966 FEL	FEL	(4.50 CY)	$5,900	1.00	$33.52	$8.05	$6.00	M	1.00
142 CAT 953 FEL|T	FEL/TRACK	(2.0 CY)		1.00	$0.00	$5.18	$5.50	M	1.00
143 CAT 973 FEL|T	FEL/TRACK	(2.5 CY)	$8,375	1.00	$47.59	$6.90	$7.00	M	1.00
144 CAT D5 DZR	DOZER		$5,750	1.00	$32.67	$4.60	$4.50	M	1.00
145 CAT D6 DZR	DOZER		$6,625	1.00	$37.64	$6.32	$4.50	M	1.00
146 CAT D6 DZR|D	DOZER/DISC			1.00	$0.00	$6.32	$4.50	M	1.00
147 CAT D6 DZR|LGP	DOZER/LGP		$8,525	1.00	$48.44	$6.32	$4.50	M	1.00
148 CAT D7 DZR	DOZER			1.00	$0.00	$8.05	$5.25	M	1.00
149 CAT D8 DZR	DOZER		$12,350	1.00	$70.17	$12.65	$7.50	M	1.00
150 CAT D9 DZR	DOZER		$14,750	1.00	$83.81	$18.40	$10.00	M	1.00
151 CAT D9 DZR|R	DOZER/RIPR		$15,950	1.00	$90.68	$21.85	$13.00	M	1.00
152 CAT 14 GDR	GRADER		$6,975	1.00	$39.63	$6.90	$6.50	M	1.00
153 CAT 16 GDR	GRADER		$13,730	1.00	$78.01	$9.20	$8.00	M	1.00
154 CAT 815 COMP	COMPACTOR		$8,000	1.00	$45.45	$12.65	$5.00	M	1.00
155 CAT CP 563 COMP	COMPACTOR		$3,700	1.00	$21.02	$6.90	$4.00	M	1.00
156 4"/6" PUMP				1.00	$0.00	$4.60	$2.00	M	1.00
157 MISC. EQUIPMENT			$2,800	1.00	$15.91	$4.60	$2.00	M	1.00
158 CAT 613 SCPR|E	SCRAPER/ELEV	(11 CY)	$6,850	1.00	$38.92	$5.75	$4.00	M	1.00
159 CAT 631 SCPR|E	SCRAPER/ELEV	(31 CY)	$16,500	1.00	$93.75	$10.06	$8.75	M	1.00
160 CAT 627 SCPR|T	SCRAPER/TWIN	(20 CY)		1.00	$0.00	$18.11	$12.50	M	1.00
161 CAT 637 SCPR|T	SCRAPER/TWIN	(31 CY)		1.00	$0.00	$27.31	$17.50	M	1.00
162 WATER TRUCK	WATER TRUCK	(5,000 GAL)	$5,700	1.00	$32.39	$4.60	$3.00	M	1.00
163 TANDEM DUMP TRUCK		(10 CY)	$8,800	1.00	$50.00	$0.00	$0.00	M	1.00

EQUIPMENT ADJUSTMENT FACTORS:

MONTHLY	M	1.00
WEEKLY	W	1.44
DAILY	D	1.81

PROJECT: INTERIM REMEDIATION FOR UNC DATE: 06-Jun-91 SHT 5 OF SHT 21

JOB NO.: 86-60-26 TIME: 02:03 PM SALES TAX RATE =======) 0.00%

ESTIMATOR: WJY

SUMMARY OF MATERIAL AND SUBCONTRACT PRICES
USED IN CURRENT ESTIMATE

	B	E	F	G	H	I	J	L	N	O
	DESCRIPTION	QUANTITY	UNIT	QUOTED UNIT PRICE	SALES TAX	UNIT PRICE WITH TAX	TOTAL PRICE	PLUGGED - P QUOTED - Q	NO. OF QUOTES RECEIVED	PRICE DIFF. BETWEEN LOW & SECOND
	PERMANENT MATERIAL PRICES									
187	STRAW BALES	2,000	EA	$2.50	1.00	$2.50	$5,000.00			
188	GEOTEXTILE	420,337	SF	$0.07	1.00	$0.07	$29,423.59			
189					1.00	$0.00	$0.00			
190	MISC. SUPPLIES	5	LS	$3,000.00	1.00	$3,000.00	$15,600.00			
191	MISC. SHANK WORK	1	LS	$5,000.00	1.00	$5,000.00	$5,000.00	P		
192	CULVERT PIPE	175	LF	$25.00	1.00	$25.00	$4,375.00			
193	ARCH PIPE (83"-57")	50	LF	$100.00	1.00	$100.00	$5,000.00			
194	MISC. PIPE	1	LS	$500.00	1.00	$500.00	$500.00			
195					1.00	$0.00	$0.00			
196					1.00	$0.00	$0.00			
197					1.00	$0.00	$0.00			
198					1.00	$0.00	$0.00			
199					1.00	$0.00	$0.00			
200					1.00	$0.00	$0.00			
201					1.00	$0.00	$0.00			
202					1.00	$0.00	$0.00			
203					1.00	$0.00	$0.00			
204					1.00	$0.00	$0.00			
	MAJOR SUPPLY PRICES									
207					1.00	$0.00	$0.00			
208					1.00	$0.00	$0.00			
209					1.00	$0.00	$0.00			
210	RADIOLOGICAL MONITORING	25	WK	$1,700.00	1.00	$1,700.00	$42,500.00			
211					1.00	$0.00	$0.00			
212					1.00	$0.00	$0.00			
213					1.00	$0.00	$0.00			
214					1.00	$0.00	$0.00			
	SUBCONTRACT PRICES:									
217					1.00	$0.00	$0.00			
218					1.00	$0.00	$0.00			
219	HAUL: SPECIAL LOADS	40	EA	$500.00	1.00	$500.00	$19,920.00			
220	HAUL: REGULAR LOADS	18	EA	$300.00	1.00	$300.00	$5,478.00			
221	HAUL: SMALL LOADS	13	EA	$150.00	1.00	$150.00	$1,992.00			
222					1.00	$0.00	$0.00			
223					1.00	$0.00	$0.00	P		
224	HEALTH & SAFETY TRAINING	528	MNHR	$25.00	1.00	$25.00	$13,200.00			
225	CRANE	83	HR	$90.00	1.00	$90.00	$7,470.00			
226	INDUSTRIAL HYGIENIST	53	MNHRS	$30.00	1.00	$30.00	$1,584.00			
227	SECURITY SERVICE	31	WK	$1,482.00	1.00	$1,482.00	$45,942.00			

PROJECT: INTERIM REMEDIATION FOR UNC DATE: 06-Jun-91 SHT 6 OF SHT 21

JOB NO.: 86-60-26 TIME: 02:03 PM

ESTIMATOR: WJY

FIXED COST JOBSITE OVERHEADS

	DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	UNIT RATE	I LABOR	J INT EQUIP	K EXT EQUIP	L FUEL	M REPAIRS	N SUPPLIES	O SUBS	P TRAVEL	Q TOTALS
245	COPY MACHINE (LONG TERM PROJECT)			55						0			0
246	PHONE SYSTEM (LONG TERM PROJECT)	Y	1	500						500			500
247	PHYSICALS			500						0			0
248	UTILITY HOOKUPS:												
249	ELECTRIC	Y	1	350							350		350
250	WATER			250							0		0
251	SEWER										0		0
252	GAS										0		0
253	TELEPHONE	Y	1	200							200		200
254	SPECIAL TAXES									0			0
255	PERMITS			100						0			0
256	ROYALITIES ON PROCESSES									0			0
257										0			0
258										0			0
259	TEMPORARY FENCING			3.5						0			0
260	OFFICE FURNITURE	Y	10	75						750			750
261	FAX MACHINE	Y	1	300						300			300
262	COMPUTER	Y	1	500						500			500
263	COMPUTER SOFTWARE	Y	3	200						600			600
264	MOVING EXPENSES (LONG TERM PROJECT)									0			0
265	PROJECT SIGN									0			0
266	H & S TRAINING-OPERATORS			1,149	0								0
267	H & S TRAINING-LABORERS			959	0					0			0
268	INITIAL H & S PURCHASES	Y	1	2500						2500			2500
269	TRAINING CLASS COSTS-EXTERNAL			700							0		0
270	TRAINING CLASS COSTS-INTERNAL			450							0		0
271										0			0
272										0			0
273										0			0
274										0			0
275										0			0
276										0			0
277										0			0
278										0			0
279										0			0
280										0			0
281										0			0
282										0			0
283										0			0
	TOTAL FIXED OVERHEADS				0	0	0	0	0	5150	550	0	5700

PROJECT: INTERIM REMEDIATION FOR UNC DATE: 06-Jun-91 SHT 7 OF SHT 21

JOB NO.: 86-60-26 TIME: 02:03 PM

ESTIMATOR: WJY PROJECT DURATION = 25.0 WEEKS

VARIABLE COST JOBSITE OVERHEADS

	PROJECT MANAGER DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	DURATION	UNIT RATE	I TOTAL LABOR	J WEEKLY LABOR	K WEEKLY INT EQUIP	L WEEKLY EXT EQUIP	M WEEKLY FUEL	N WEEKLY REPAIRS	O WEEKLY SUPPLIES	P WEEKLY SUBS	Q WEEKLY TRAVEL	Q WEEKLY TOTALS
305	PROJECT MANAGER			25	$1,462	0	0	0		0	0			0	0
306	SUPERINTENDENT	Y	1	25	$1,410	35,250	1,410	150		30	20			260	1,870
307	FIELD FORMAN			25	$1,253	0	0	0		0	0			0	0
308	PROJ. ENGINEER	Y	1	25	$1,185	29,625	1,185		150	30	20			260	1,645
309	H&S OFFICER	Y	1	25	$1,495	37,375	1,496		150	30	20			260	1,956
310	ENGINEER TECH.	Y	0.5	25	$1,275	15,938	638		75	15	10			130	868
311	OFFICE MANAGER	Y	1	25	$701	17,525	701							0	701
312	CLERK			25	$636	0	0							0	0
313	MECHANIC	Y	1	25	$923	23,075	923		150	30	20			0	1,123
314	MECHANIC HELPER	Y	0.5	25	$728	9,100	364							0	364
315	SURVEY CREW	Y	1	6	$3,500								840		840
316	OFFICE TRAILER			25	$150				0						0
317	TOOL TRAILER			25	$75			0							0
318	CHANGE TRAILER			25	$100				0						0
319	DECONTAMINATION TRAILER			25	$225				0						0
320	OFFICE SUPPLIES	Y	1	25	$50							50			50
321	SURVEY SUPPLIES	Y	1	25	$100							100			100
322	SAFETY SUPPLIES	Y	1	25	$30							30			30
323	COPY MACHINE			25	$50							0			0
324	PHONE			25	$150							0			0
325	FUEL TRUCK			25	$100				0						0
326	GREASE TRUCK	Y	1	25	$221				221						221
327	PRESSURE WASHER	Y	1	25	$225				225						225
328	SAFETY EQUIPMENT (OVA)			25	$95			0							0
329	MISC. EQUIP			25	$75			0							0
330				25											0
331	UTILITY SERVICES	Y	1	25	$35							35			35
332	POTABLE WATER			25	$40							0			0
333	SANITARY FACILITIES	Y	2	25	$40							80			80
334	SMALL TOOLS	Y	1	25	$150							150			150
335	JOBSITE PHOTOS	Y	1	25	$40							40			40
336	STORAGE TANK			25	$105				0						0
337				25											0
338	TRAVEL, EXECUTIVE			25	$500							0			0
339	KEY OPERATOR ADJUSTMENT			25	$438							0			0
340	KEY LABORER ADJUSTMENT			25	$438							0			0
341	ON-SITE QC TESTING			25	$200								0		0
342	SECURITY			25	$2,520								0		0
343															
	VARIABLE JOBSITE OVERHEADS (WEEKLY)						6,716	150	971	135	90	485	840	910	10,297
	VARIABLE JOBSITE OVERHEADS (TOTAL)		25 WEEKS				167,900	3,750	24,275	3,375	2,250	12,125	21,000	22,750	257,425

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 8 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: MOBILIZATION JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 68 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CASE 580 BKH	1.00	EA	17.16		7.95	3.45	2.00				0.00		
LOCAL OPERATOR	2.00	EA	34.31								0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			75.40	0.00	7.95	3.45	2.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	88.80
SUBTOTAL	68	HOURS	5,127	0	541	235	136	0	0	0	0	6,039	6,039.00
MATERIALS:													
												0	
HAUL: SPECIAL LOADS	16	EA								7,920		7,920	
HAUL: REGULAR LOADS	7	EA								2,178		2,178	
HAUL: SMALL LOADS	5	EA								792		792	
MISC. SUPPLIES	1	LS							3,000			3,000	
CRANE	33	HR								2,970		2,970	
HEALTH & SAFETY TRAINING	528	MNHR								13,200		13,200	
INDUSTRIAL HYGIENIST	53	MNHRS								1,584		1,584	
												0	
												0	
												0	
												0	
TOTALS			5,127	0	541	235	136	0	3,000	28,644	0	37,683	37,683.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 9 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: CLEARING AND GRUBBING JOB QUANTITY: 10 AC

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 25 HOURS

DESCRIPTION		QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D6 DZR		1.00	EA	17.16		37.64	6.32	4.50				0.00		
LOCAL LABORER		1.00	EA	11.97								0.00		
CAT 966 FEL		1.00	EA	17.16		33.52	8.05	6.00				0.00		
TANDEM DUMP TRUCK	*	1.00	EA			50.00	0.00	0.00				0.00		
MISC. EQUIPMENT		0.50	EA	8.58		7.96	2.30	1.00				0.00		
CREW				54.86	0.00	129.12	16.67	11.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	212.15
SUBTOTAL		25	HOURS	1,371	0	3,228	417	288	0	0	0	0	5,304	530.40

MATERIALS:

0
0
0
0
0
0
0
0
0
0
0
0

TOTALS	1,371	0	3,228	417	288	0	0	0	0	5,304		530.40

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 10 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: HAUL/ACCESS ROADS JOB QUANTITY: 14,500 SY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 34 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D6 DZR	1.00	EA	17.16		37.64	6.32	4.50				0.00		
CAT 815 COMP	0.50	EA	8.58		22.73	6.32	2.50				0.00		
CAT 16 GDR	1.00	EA	17.16		78.01	9.20	8.00				0.00		
LOCAL LABORER	1.00	EA	11.97								0.00		
											0.00		
CREW			54.86	0.00	138.38	21.86	15.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	230.08
SUBTOTAL	34	HOURS	1,861	0	4,694	741	509	0	0	0	0	7,805	0.54
MATERIALS:													
GEOTEXTILE	276,900	SF							19,383			19,383	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			1,861	0	4,694	741	509	0	19,383	0	0	27,188	1.88

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 11 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: TAILINGS REGRADING JOB QUANTITY: 122,300 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 86 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D9 DZR	4.00	EA	68.62		336.24	73.60	40.00				0.00		
CAT 631 SCPR|E	4.00	EA	68.62		375.00	40.25	35.00				0.00		
CAT D6 DZR|LGP	1.00	EA	17.16		48.44	6.32	4.50				0.00		
FIELD FORMAN	1.00	EA	25.05								0.00		
KEY LABORER	1.50	EA	17.95								10.50		
WATER TRUCK	1.00	EA	17.16		32.39	4.60	3.00				0.00		
CAT 16 GDR	0.50	EA	8.58		39.01	4.60	4.00				0.00		
											0.00		
CREW			223.14	0.00	830.08	129.38	86.50	0.00	0.00	0.00	10.50	HOURLY CREW COSTS	1,269.09
SUBTOTAL	86	HOURS	19,223	0	71,512	11,146	7,452	0	0	0	905	110,238	0.90
MATERIALS:													
MISC. SUPPLIES	1	LS							3,000			3,000	
GEOTEXTILE	143,437	SF							10,041			10,041	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			19,223	0	71,512	11,146	7,452	0	13,041	0	905	123,279	1.01

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 12 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: EMBANKMENT EXCAVATION JOB QUANTITY: 78,000 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 70 HOURS

DESCRIPTION		QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 631 SCPR|E		6.00	EA	102.93		562.50	60.38	52.50				0.00		
CAT D9 DZR		2.00	EA	34.31		167.62	36.80	20.00				0.00		
WATER TRUCK		2.00	EA	34.31		64.78	9.20	6.00				0.00		
FIELD FORMAN		1.00	EA	25.05								0.00		
KEY LABORER		1.00	EA	11.97								7.00		
CAT 16 GDR		1.00	EA	17.16		78.01	9.20	8.00				0.00		
CAT D6 DZR|LGP		2.00	EA	34.31		96.88	12.65	9.00				0.00		
CAT 815 COMP		2.00	EA	34.31		90.90	25.30	10.00				0.00		
KEY LABORER		2.00	EA	23.93								14.00		
CAT 631 SCPR|E	*	1.00	EA			93.75	10.06	8.75						
												0.00		
CREW				318.29	0.00	1154.44	163.59	114.25	0.00	0.00	0.00	21.00	HOURLY CREW COSTS	1,750.56
SUBTOTAL		70	HOURS	22,280	0	80,811	11,451	7,998	0	0	0	1,470	124,010	1.59
MATERIALS:														
MISC. SUPPLIES		1	LS							3,000			3,000	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
TOTALS				22,280	0	80,811	11,451	7,998	0	3,000	0	1,470	127,010	1.63

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 13 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: MILL DECOMMISIONING JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 700 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CRANE W/BALL	1.00	EA	17.16		85.23	4.02	3.50				0.00		
CAT 235 BKH|A	2.00	EA	34.31		170.46	9.20	8.00				0.00		
CAT 973 FEL|T	2.00	EA	34.31		95.18	13.80	14.00				0.00		
LOCAL LABORER	4.00	EA	47.87								0.00		
TANDEM DUMP TRUCK	2.00	EA	34.31		100.00	0.00	0.00				0.00		
MISC. EQUIPMENT	1.00	EA	17.16		15.91	4.60	2.00				0.00		
CREW			185.11	0.00	466.78	31.62	27.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	711.02
SUBTOTAL	700	HOURS	144,388	0	364,088	24,667	21,450	0	0	0	0	554,593	554,593.00
MATERIALS:													
- MILL GRADING	1	LS	18,667		18,667	2,000	1,333					40,667	
- DRAINAGE WORK	1	LS	6,250		6,250	750	500					13,750	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			169,305	0	389,005	27,417	23,283	0	0	0	0	609,010	609,010.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 14 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: ORE PADS AND CATCH BASINS JOB QUANTITY: 103,100 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 310 HOURS

DESCRIPTION		QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D9 DZR		2.00	EA	34.31		167.62	36.00	20.00				0.00		
CAT 966 FEL		2.00	EA	34.31		67.04	16.10	12.00				0.00		
WATER TRUCK		1.00	EA	17.16		32.39	4.60	3.00				0.00		
CAT 16 GDR		1.00	EA	17.16		78.01	9.20	8.00				0.00		
FIELD FORMAN		1.00	EA	25.05								0.00		
KEY LABORER		2.00	EA	23.93								14.00		
TANDEM DUMP TRUCK	*	6.00	EA			300.00	0.00	0.00						
CAT D6 DZR|LGP		1.00	EA	17.16		48.44	6.32	4.50				0.00		
CAT 815 COMP		1.00	EA	17.16		45.45	12.65	5.00				0.00		
CREW				186.23	0.00	738.95	85.68	52.50	0.00	0.00	0.00	14.00	HOURLY CREW COSTS	1,063.36
SUBTOTAL		310	HOURS	57,731	0	229,075	26,559	16,275	0	0	0	4,340	333,980	3.24
MATERIALS:														
MISC. SUPPLIES		1	LS							3,000			3,000	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
													0	
TOTALS				57,731	0	229,075	26,559	16,275	0	3,000	0	4,340	336,980	3.27

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 15 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: SOIL COVER MATERIAL JOB QUANTITY: 42,270 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 64 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 14 GDR	1.00	EA	17.16		39.63	6.90	6.50				0.00		
LOCAL LABORER	0.50	EA	5.98								0.00		
											0.00		
CREW			23.14	0.00	39.63	6.90	6.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	76.17
SUBTOTAL	64	HOURS	1,476	0	2,528	440	415	0	0	0	0	4,859	0.11
MATERIALS:													
- MISC. SUPPLIES	1	LS							500			500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			1,476	0	2,528	440	415	0	500	0	0	5,359	0.13

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 16 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: MISC. SITE DRAINAGE JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 80 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 225 BKH	1.00	EA	17.16		42.61	5.18	4.25				0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
											0.00		
CREW			41.09	0.00	42.61	5.18	4.25	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	93.13
SUBTOTAL	80	HOURS	3,287	0	3,409	414	340	0	0	0	0	7,450	7,450.00
MATERIALS:													
CULVERT PIPE	175	LF							4,375			4,375	
ARCH PIPE (83"-57")	50	LF							5,000			5,000	
MISC. SUPPLIES	0.2	LS							600			600	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			3,287	0	3,409	414	340	0	9,975	0	0	17,425	17,425.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 17 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: DEWATERING PREP. JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 50 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CASE 580 BKH	1.00	EA	17.16		7.95	3.45	2.00				0.00		
MISC. EQUIPMENT	1.00	EA	17.16		15.91	4.60	2.00				0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			58.25	0.00	23.86	8.05	4.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	94.16
SUBTOTAL	50	HOURS	2,912	0	1,193	402	200	0	0	0	0	4,707	4,707.00
MATERIALS:													
MISC. PIPE	1	LS							500			500	
STRAW BALES	2,000	EA							5,000			5,000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			2,912	0	1,193	402	200	0	5,500	0	0	10,207	10,207.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 18 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: DEMOBILIZATION JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 120 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CASE 580 BKH	1.00	EA	17.16		7.95	3.45	2.00				0.00		
LOCAL OPERATOR	2.00	EA	34.31								0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			75.40	0.00	7.95	3.45	2.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	88.80
SUBTOTAL	120	HOURS	9,048	0	954	414	240	0	0	0	0	10,656	10,656.00
MATERIALS:													
HAUL: SPECIAL LOADS	24	EA								12,000		12,000	
HAUL: REGULAR LOADS	11	EA								3,300		3,300	
HAUL: SMALL LOADS	8	EA								1,200		1,200	
MISC. SUPPLIES	1	LS							3,000			3,000	
CRANE	50	HR								4,500		4,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			9,048	0	954	414	240	0	3,000	21,000	0	34,656	34,656.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 19 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: SECURITY SERVICE JOB QUANTITY: 25 WK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
SECURITY SERVICE	25	WK								37,050		37,050	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	37,050	0	37,050	1,482.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 20 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: RADIOLOGICAL MONITORING JOB QUANTITY: 25 WK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
RADIOLOGICAL MONITORING	25	WK						42,500				42,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	42,500	0	0	0	42,500	1,700.00

PROJECT: INTERIM REMEDIATION FOR UNC ESTIMATOR: WJY SHT 21 OF SHT 21

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:03 PM

ITEM DESCRIPTION: QUALITY CONTROL JOB QUANTITY: 25 MK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 1,250 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
AST. PROJ. ENG.	1.00	EA	28.02								5.20		
CREW			28.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	HOURLY CREW COSTS	28.02
SUBTOTAL	1,250	HOURS	35,025	0	0	0	0	0	0	0	6,500	41,525	1,661.00
MATERIALS:													
- MISC. EQUIPMENT	1	LS			14,900							14,900	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			35,025	0	14,900	0	0	0	0	0	6,500	56,425	2,257.00

ATTACHMENT B

SEEPAGE COLLECTION

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 1 OF SHT 12

JOB NO.: 86-60-26

DATE: 06-Jun-91 TIME: 02:17 PM

ESTIMATE SUMMARY

ITEM DESCRIPTION	DETAIL SHEET	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIAL	SUBS	TRAVEL	UNIT COSTS	TOTAL COSTS
TOTAL FIXED OVERHEADS	SHT 6	1	LS	0	0	0	0	0	0		0	0	0.00	0
VARIABLE JOBSITE OVERHEADS	SHT 7	1	WEEKS	0	0	0	0	0	0		0	0	0.00	0
SYSTEM OPERATION	SHT 8	260	WK	294,540	0	0	0	0	0	0	0	0	1,132.85	294,540
PLUG WELLS	SHT 9	290	EA	0	0	0	0	0	0	0	636,840	0	2,196.00	636,840
INSTALLATION OF WELLS	SHT 10	8	EA	0	0	0	0	0	0	0	64,000	0	8,000.00	64,000
GROUND WATER MONITORING	SHT 11	364	WK	0	0	0	0	0	0	0	612,612	0	1,683.00	612,612
REPORTING	SHT 12	7	YR	0	0	0	0	0	0	0	840,000	0	120,000.00	840,000
SUBTOTAL				294,540	0	0	0	0	0	0	2,153,452	0		2,447,992

PROJECT: SEEPAGE COLLECTION FOR UNC DATE: 06-Jun-91

JOB NO.: 86-60-26 TIME: 02:17 PM

WEEKLY WORK HOUR BASIS: ESTIMATOR: WJY

1) PROJECT BASED ON WORKING 50 HOURS PER WEEK.

2) RATES ARE BASED ON PREVAILING RATES IN THE SUTTER COUNTY CALIFORNIA.

SUBSISTENCE AND TRAVEL COST CALCULATIONS: AMOUNTS APPLIED TO THE FIRST 40 HOURS OF WORK

S&T CLASS	GENERAL DESCRIPITON	TRAVEL BASIS (WKS/TRP)	TRAVEL COST (PER TRIP)	LODGING COST (PER NIGHT)	SUBSISTENCE COST (PER DAY)	HOURLY COSTS TRAVEL	LODGING	SUBSISTENCE	TOTALS
SALARIED PERSONNEL:									
S1	SALARY, REGIONAL TRAVEL	2	$100	$35	$0	$1.25	$5.25	$0.00	$6.50
S2	SALARY, LOCAL TRAVEL	1	$50	$35	$0	$1.25	$4.38	$0.00	$5.63
S3		1				$0.00	$0.00	$0.00	$0.00
S4		1				$0.00	$0.00	$0.00	$0.00
S5		1				$0.00	$0.00	$0.00	$0.00
HOURLY PERSONNEL:									
H1	HOURLY, REGIONAL TRAVEL	3	$100	$35	$15	$0.83	$5.54	$2.38	$8.75
H2	HOURLY, LOCAL TRAVEL	1	$0	$0	$0	$0.00	$0.00	$0.00	$0.00
H3		1				$0.00	$0.00	$0.00	$0.00
H4		1				$0.00	$0.00	$0.00	$0.00
H5		1				$0.00	$0.00	$0.00	$0.00

TAX AND INSURANCE CALCULATIONS:

	DESCRIPTION	NON-REP	SALARY	REMARKS
*	FUI %	0.80%	0.80%	STANDARD FEDERAL RATE APPLIED TO ALL WAGES PAID
*	SUI %	2.60%	2.60%	RATE VARIES WITH STATE, APPLIES TO ALL WAGES PAID
*	FICA %	7.65%	7.65%	STANDARD FEDERAL RATE APPLIED TO ALL WAGES PAID
	WC %	7.55%	7.55%	VARIES BY CRAFT SEE WAGE RATE TABLE, BASE WAGE ONLY
	HEALTH (MNTHLY)	$350	$350	MONTHLY COST, CANONIE COVERAGE, FIRST 40 HOURS (AVG $350)
	LTL %	N/A	1.18%	SALARY EMPLOYEES-ONLY, BASE WAGE ONLY.
	STRAIGHT %	18.60%	19.78%	
*	OVERTIME %	11.05%	11.05%	

PROJECT: SEEPAGE COLLECTION FOR UNC DATE: 06-Jun-91 SHT 3b OF SHT 12

JOB NO.: 86-60-26 TIME: 02:17 PM

ESTIMATOR: WJY

WAGE RATE TABLE

		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
					(= TAXABLE FRINGES =)		(= NON-TXBLE FRNGS =)		(===== CANONIE ADDITIONS =====)			STRAIGHT HOURLY		PREMIUM HOURLY		AVG HOURLY	@ 50 HRS
	DESCRIPTION	ESCAL FACTOR MULTIPLIER	SUB & TRVL CLASS	BASE WAGE	VACATION	ALL OTHER	H&W	ALL OTHER	WKRS COMP %'AGE	HEALTH INS	SUB & TRAVEL	BARE HOURLY	TOTAL HOURLY	BARE HOURLY	TOTAL HOURLY	BARE HOURLY	TOTAL HOURLY
72	MECHANIC	1.00	H2	$13.00					7.55%	$1.99	$0.00	$13.00	$17.41	$19.50	$22.64	$14.30	$18.45
73	KEY OPERATOR	1.00	H1	$12.00					7.55%	$1.99	$8.75	$12.00	$24.97	$18.00	$20.90	$13.20	$24.16
74	LOCAL OPERATOR	1.00	H2	$12.00					7.55%	$1.99	$0.00	$12.00	$16.22	$18.00	$20.90	$13.20	$17.16
75	OILER	1.00	H2	$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.56
76	KEY LABORER	1.00	H1	$8.00					7.55%	$1.99	$8.75	$8.00	$20.23	$12.00	$13.93	$8.80	$18.97
77	LOCAL LABORER	1.00	H2	$8.00					7.55%	$1.99	$0.00	$8.00	$11.48	$12.00	$13.93	$8.80	$11.97
78	PIPEFITTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
79	ELECTRICIAN	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
80																	
81	CARPENTER FRM.	1.00	H1						7.55%	$0.00	$8.75	$0.00	$8.75	$0.00	$0.00	$0.00	$7.00
82	CARPENTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
83	CEMENT MASONS	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
84	TEAMSTERS	1.00	H1						7.55%	$0.00	$8.75	$0.00	$8.75	$0.00	$0.00	$0.00	$7.00
85																	
86	MECHANIC HELPER	1.00		$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.56
87																	
88																	
89																	
90																	
91																	
92	PROJECT MANAGER	1.00	S1	$28.85					7.55%	$1.99	$6.50	$28.85	$43.04	$0.00	$0.00	$23.08	$34.43
93	SUPERINTENDENT	1.00	S1	$27.76					7.55%	$1.99	$6.50	$27.76	$41.74	$0.00	$0.00	$22.21	$33.40
94	FIELD FORMAN	1.00	H2	$24.48					7.55%	$1.99	$0.00	$24.48	$31.31	$0.00	$0.00	$19.59	$25.05
95	PROJ. ENGINEER	1.00	S2	$23.08					7.55%	$1.99	$5.63	$23.08	$35.26	$0.00	$0.00	$18.46	$28.21
96	H&S OFFICER	1.00	S2	$21.63					7.55%	$1.99	$5.63	$21.63	$33.53	$32.45	$37.93	$23.80	$34.41
97	AST. PROJ. ENG.	1.00	S2	$20.19					7.55%	$1.99	$5.63	$20.19	$31.80	$30.29	$35.40	$22.21	$32.52
98	ENGINEER TECH.	1.00	S2	$18.27					7.55%	$1.99	$5.63	$18.27	$29.50	$27.40	$32.03	$20.10	$30.01
99	OFFICE MANAGER	1.00	S2	$9.50					7.55%	$1.99	$5.63	$9.50	$19.00	$14.25	$16.65	$10.45	$18.53
100	CLERK	1.00	S2	$8.50					7.55%	$1.99	$5.63	$8.50	$17.80	$12.75	$14.90	$9.35	$17.22
101	PROJ. SUPERVISOR	1.00	S2	$24.04					7.55%	$1.99	$5.63	$24.04	$36.41	$36.06	$42.14	$26.44	$37.56
102																	
103																	
104																	

PROJECT: SEEPAGE COLLECTION FOR UNC | DATE: 06-Jun-91 | USE TAX RATE =======) 0.00% | SHT 4 OF SHT 12

JOB NO.: 86-60-26 | TIME: 02:17 PM | HOURLY FUEL RATE IS BASED UPON PAYING $1.15 PER GALLON.

ESTIMATOR: WJY

EQUIPMENT RENTAL RATES

BASED ON OPERATING 176 HOURS PER MONTH

EQUIPMENT ADJUSTMENT FACTORS:

			F	G	H	I	J	K	L
	DESCRIPTION	TYPE	MONTHLY RENTAL	USE TAX	HOURLY RENTAL 176 HR/MO	HOURLY FUEL RATE	HOURLY REPAIRS RATE	PERIOD USAGE D,W,M	ADJUSTMENT FACTOR APPLIED
****** INTERNAL EQUIPMENT ******									
121				1.00	$0.00	$2.30	$1.00	M	1.00
122				1.00	$0.00	$1.15	$0.50	M	1.00
123				1.00	$0.00	$0.00	$0.00	M	1.00
124				1.00	$0.00	$1.72	$1.00	M	1.00
125				1.00	$0.00	$0.00	$0.00	M	1.00
126				1.00	$0.00	$0.00	$0.00	M	1.00
127				1.00	$0.00	$0.00	$0.00	M	1.00
128				1.00	$0.00	$0.00	$0.00	M	1.00
129				1.00	$0.00	$0.00	$0.00	M	1.00
130				1.00	$0.00	$0.00	$0.00	M	1.00
131				1.00	$0.00	$0.00	$0.00	M	1.00
****** EXTERNAL EQUIPMENT ******								M	
133	CASE 580 BKH	BACKHOE	(CY)	$1,400	1.00	$7.95	$3.45	$2.00	M 1.00
134	CAT 215 BKH	BACKHOE	(1.25 CY)		1.00	$0.00	$4.60	$3.50	M 1.00
135	CAT 225 BKH	BACKHOE	(1.62 CY)	$7,500	1.00	$42.61	$5.18	$4.25	M 1.00
136	CAT 235 BKH	BACKHOE	(2.75 CY)	$9,000	1.00	$51.14	$7.48	$6.00	M 1.00
137	CAT 245 BKH	BACKHOE W/L STICK	(3.75 CY)	$12,500	1.00	$71.02	$12.65	$7.50	M 1.00
138	CRANE W/BALL	CRANE & BALL		$15,000	1.00	$85.23	$4.02	$3.50	M 1.00
139	CAT 235 BKH|A	BKH WITH ATTACH		$11,000	1.00	$62.50	$4.60	$4.00	M 1.00
140	CAT 950 FEL	FEL	(3.25 CY)		1.00	$0.00	$5.75	$5.00	M 1.00
141	CAT 966 FEL	FEL	(4.50 CY)	$5,900	1.00	$33.52	$8.05	$6.00	M 1.00
142	CAT 963 FEL|T	FEL/TRACK	(2.0 CY)		1.00	$0.00	$5.18	$5.50	M 1.00
143	CAT 973 FEL|T	FEL/TRACK	(2.5 CY)	$8,375	1.00	$47.59	$6.90	$7.00	M 1.00
144	CAT D5 DZR	DOZER		$5,750	1.00	$32.67	$4.60	$4.50	M 1.00
145	CAT D6 DZR	DOZER		$6,625	1.00	$37.64	$6.32	$4.50	M 1.00
146	CAT D6 DZR|D	DOZER/DISC			1.00	$0.00	$6.32	$4.50	M 1.00
147	CAT D6 DZR|LGP	DOZER/LGP		$8,525	1.00	$48.44	$6.32	$4.50	M 1.00
148	CAT D7 DZR	DOZER			1.00	$0.00	$8.05	$5.25	M 1.00
149	CAT D8 DZR	DOZER		$12,350	1.00	$70.17	$12.65	$7.50	M 1.00
150	CAT D9 DZR	DOZER		$14,750	1.00	$83.81	$18.40	$10.00	M 1.00
151	CAT D9 DZR|R	DOZER/RIPR		$15,960	1.00	$90.68	$21.85	$13.00	M 1.00
152	CAT 14 GDR	GRADER		$6,975	1.00	$39.63	$6.90	$6.50	M 1.00
153	CAT 16 GDR	GRADER		$13,730	1.00	$78.01	$9.20	$8.00	M 1.00
154	CAT 815 COMP	COMPACTOR		$8,000	1.00	$45.45	$12.65	$5.00	M 1.00
155	CAT CP 563 COMP	COMPACTOR		$3,700	1.00	$21.02	$6.90	$4.00	M 1.00
156	4"/6" PUMP				1.00	$0.00	$4.60	$2.00	M 1.00
157	MISC. EQUIPMENT			$2,000	1.00	$15.91	$4.60	$2.00	M 1.00
158	CAT 613 SCPR|E	SCRAPER/ELEV	(11 CY)	$6,850	1.00	$38.92	$5.75	$4.00	M 1.00
159	CAT 631 SCPR|E	SCRAPER/ELEV	(31 CY)	$16,500	1.00	$93.75	$10.06	$8.75	M 1.00
160	CAT 627 SCPR|T	SCRAPER/TWIN	(20 CY)		1.00	$0.00	$18.11	$12.50	M 1.00
161	CAT 637 SCPR|T	SCRAPER/TWIN	(31 CY)		1.00	$0.00	$27.31	$17.50	M 1.00
162	WATER TRUCK	WATER TRUCK	(5,000 GAL)	$5,700	1.00	$32.39	$4.60	$3.00	M 1.00
163	TANDEM DUMP TRUCK		(10 CY)	$7,000	1.00	$39.77	$0.00	$0.00	M 1.00

MONTHLY	M	1.00
WEEKLY	W	1.44
DAILY	D	1.81

PROJECT: SEEPAGE COLLECTION FOR UNC DATE: 06-Jun-91 SHT 5 OF SHT 12

JOB NO.: 86-60-26 TIME: 02:17 PM SALES TAX RATE =======) 0.00%

ESTIMATOR: WJY

SUMMARY OF MATERIAL AND SUBCONTRACT PRICES
USED IN CURRENT ESTIMATE

B	E	F	G	H	I	J	L	N	O
DESCRIPTION	QUANTITY	UNIT	QUOTED UNIT PRICE	SALES TAX	UNIT PRICE WITH TAX	TOTAL PRICE	PLUGGED - P QUOTED - Q	NO. OF QUOTES RECEIVED	PRICE DIFF. BETWEEN LOW & SECOND
			PERMANENT MATERIAL PRICES						
187 STRAW BALES		EA	$2.50	1.00	$2.50	$0.00			
188 GEOTEXTILE		SF	$0.05	1.00	$0.05	$0.00			
189				1.00	$0.00	$0.00			
190 MISC. SUPPLIES		LS	$3,000.00	1.00	$3,000.00	$0.00			
191 MISC. SHANK WORK		LS	$5,000.00	1.00	$5,000.00	$0.00	P		
192 CULVERT PIPE	175	LF	$25.00	1.00	$25.00	$4,375.00			
193 ARCH PIPE (83"-57")	50	LF	$100.00	1.00	$100.00	$5,000.00			
194 MISC. PIPE	1	LS	$500.00	1.00	$500.00	$500.00			
195				1.00	$0.00	$0.00			
196				1.00	$0.00	$0.00			
197				1.00	$0.00	$0.00			
198				1.00	$0.00	$0.00			
199				1.00	$0.00	$0.00			
200				1.00	$0.00	$0.00			
201				1.00	$0.00	$0.00			
202				1.00	$0.00	$0.00			
203				1.00	$0.00	$0.00			
204				1.00	$0.00	$0.00			
			MAJOR SUPPLY PRICES						
207 1.5" STONE		TN	$8.50	1.00	$8.50	$0.00			
208				1.00	$0.00	$0.00			
209				1.00	$0.00	$0.00			
210 RADIOLOGICAL MONITORING	1	WK	$3,500.00	1.00	$3,500.00	$3,500.00			
211				1.00	$0.00	$0.00			
212				1.00	$0.00	$0.00			
213				1.00	$0.00	$0.00			
214				1.00	$0.00	$0.00			
			SUBCONTRACT PRICES:						
217 PLUG WELLS	280	EA	$2,306.80	1.00	$2,306.80	$645,624.00			
218				1.00	$0.00	$0.00			
219				1.00	$0.00	$0.00			
220				1.00	$0.00	$0.00			
221				1.00	$0.00	$0.00			
222				1.00	$0.00	$0.00			
223				1.00	$0.00	$0.00	P		
224				1.00	$0.00	$0.00			
225				1.00	$0.00	$0.00			
226				1.00	$0.00	$0.00			
227 SECURITY SERVICE		WK	$1,482.00	1.00	$1,482.00	$0.00			

PROJECT: SEEPAGE COLLECTION FOR UNC DATE: 06-Jun-91 SHT 6 OF SHT 12

JOB NO.: 86-60-26 TIME: 02:17 PM

ESTIMATOR: WJY

FIXED COST JOBSITE OVERHEADS

	DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	UNIT RATE	I LABOR	J INT EQUIP	K EXT EQUIP	L FUEL	M REPAIRS	N SUPPLIES	O SUBS	P TRAVEL	Q TOTALS
245	COPY MACHINE (LONG TERM PROJECT)			55						0			0
246	PHONE SYSTEM (LONG TERM PROJECT)									0			0
247	PHYSICALS			1300						0			0
248	UTILITY HOOKUPS:												
249	ELECTRIC			350							0		0
250	WATER			250							0		0
251	SEWER										0		0
252	GAS										0		0
253	TELEPHONE			200							0		0
254	SPECIAL TAXES									0			0
256	PERMITS			100						0			0
256	ROYALITIES ON PROCESSES									0			0
257										0			0
258										0			0
259	TEMPORARY FENCING			3.5						0			0
260	OFFICE FURNITURE			75						0			0
261	FAX MACHINE			300						0			0
262	COMPUTER			500						0			0
263	COMPUTER SOFTWARE			200						0			0
264	MOVING EXPENSES (LONG TERM PROJECT)									0			0
266	PROJECT SIGN									0			0
266	H & S TRAINING-OPERATORS			1,149	0								0
267	H & S TRAINING-LABORERS			959	0					0			0
268	INITIAL H & S PURCHASES			250						0			0
269	TRAINING CLASS COSTS-EXTERNAL			700							0		0
270	TRAINING CLASS COSTS-INTERNAL			450							0		0
271										0			0
272										0			0
273										0			0
274										0			0
275										0			0
276										0			0
277										0			0
278										0			0
279										0			0
280										0			0
281										0			0
282										0			0
283										0			0
	TOTAL FIXED OVERHEADS				0	0	0	0	0	0	0	0	0

VARIABLE COST JOBSITE OVERHEADS

	PROJECT MANAGER DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	DURATION	UNIT RATE	I TOTAL LABOR	J WEEKLY LABOR	K WEEKLY INT EQUIP	L WEEKLY EXT EQUIP	M WEEKLY FUEL	N WEEKLY REPAIRS	O WEEKLY SUPPLIES	P WEEKLY SUBS	Q WEEKLY TRAVEL	Q WEEKLY TOTALS
305	PROJECT MANAGER			1	$1,462		0	0		0	0			0	0
306	SUPERINTENDENT			1	$1,410		0	0		0	0			0	0
307	FIELD FORMAN			1	$1,253		0	0		0	0			0	0
308	PROJ. ENGINEER			1	$1,185		0		0	0	0			0	0
309	H&S OFFICER			1	$1,495		0		0	0	0			0	0
310	ENGINEER TECH.			1	$1,275		0		0	0	0			0	0
311	OFFICE MANAGER			1	$701		0	0						0	0
312	CLERK			1	$636		0	0						0	0
313	MECHANIC			1	$923		0	0		0	0	0		0	0
314	MECHANIC HELPER			1	$728		0	0						0	0
315	SURVEY CREW			1	$3,500								0		0
316	OFFICE TRAILER			1	$150				0						0
317	TOOL TRAILER			1	$75			0							0
318	CHANGE TRAILER			1	$100				0						0
319	DECONTAMINATION TRAILER			1	$225				0						0
320	OFFICE SUPPLIES			1	$50							0			0
321	SURVEY SUPPLIES			1	$50							0			0
322	SAFETY SUPPLIES			1	$30							0			0
323	COPY MACHINE			1	$50							0			0
324	PHONE			1	$150							0			0
325	FUEL TRUCK			1	$100				0						0
326	GREASE TRUCK			1	$221				0						0
327	PRESSURE WASHER			1	$225				0						0
328	SAFETY EQUIPMENT (OVA)			1	$95			0							0
329	MISC. EQUIP			1	$75			0							0
330				1											0
331	UTILITY SERVICES			1	$35							0			0
332	POTABLE WATER			1	$40							0			0
333	SANITARY FACILITIES			1	$40							0			0
334	SMALL TOOLS			1	$150							0			0
335	JOBSITE PHOTOS			1	$40							0			0
336	STORAGE TANK			1	$105				0						0
337				1											0
338	TRAVEL, EXECUTIVE			1	$250							0			0
339	KEY OPERATOR ADJUSTMENT			1	$438							0			0
340	KEY LABORER ADJUSTMENT			1	$438							0			0
341	ON-SITE QC TESTING			1	$200								0		0
342	SECURITY			1	$2,520								0		0
343															
	VARIABLE JOBSITE OVERHEADS (WEEKLY)						0	0	0	0	0	0	0	0	0
	VARIABLE JOBSITE OVERHEADS (TOTAL)		1 WEEKS				0	0	0	0	0	0	0	0	0

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 8 OF SHT 12

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:17 PM

ITEM DESCRIPTION: SYSTEM OPERATION JOB QUANTITY: 260 WK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
- SYSTEM OPERATIONS			294,540									294,540	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			294,540	0	0	0	0	0	0	0	0	294,540	1,132.86

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 9 OF SHT 12

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:17 PM

ITEM DESCRIPTION: PLUG WELLS JOB QUANTITY: 290 EA

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
- PLUGGING WELLS	290	EA								636,840		636,840	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	636,840	0	636,840	2,196.00

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 10 OF SHT 12

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:17 PM

ITEM DESCRIPTION: INSTALLATION OF WELLS JOB QUANTITY: 8 EA

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
- INSTALLATION OF WELLS	8	EA								64.000		64.000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	64.000	0	64.000	8.000.00

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 11 OF SHT 12

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:17 PM

ITEM DESCRIPTION: GROUND WATER MONITORING JOB QUANTITY: 364 WK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
- GROUND WATER MONITORING	364	WK								612,612		0 612,612 0 0 0 0 0 0 0 0 0 0 0	
TOTALS			0	0	0	0	0	0	0	612,612	0	612,612	1,683.00

PROJECT: SEEPAGE COLLECTION FOR UNC ESTIMATOR: WJY SHT 12 OF SHT 12

JOB NO: 86-60-26 DATE: 06-Jun-91 TIME: 02:17 PM

ITEM DESCRIPTION: REPORTING JOB QUANTITY: 7 YR

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0	HOURS	0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
												0	
- REPORTING	7	YR								840,000		840,000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	840,000	0	840,000	120,000.00

ATTACHMENT C

FINAL RECLAMATION

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 1 OF SHT 25

JOB NO.: 86 60-26 DATE: 23-May 91 TIME: 04:31 PM

ESTIMATE SUMMARY

ITEM DESCRIPTION	DETAIL SHEET	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIAL	SUBS	TRAVEL	UNIT COSTS	TOTAL COSTS
TOTAL FIXED OVERHEADS	SHT 6	1	LS	0	0	0	0	0	0		0	0	0.00	0
VARIABLE JOBSITE OVERHEADS	SHT 7	55	WEEKS	369,380	8,250	53,405	7,425	4,950	27,500		21,010	50,050	9,864.00	541,970
MOBILIZATION	SHT 8	1	LS	11,310	0	1,193	518	300	0	3,000	23,600	0	39,921.00	39,921
CLEARING AND GRUBBING	SHT 9	89	AC	12,786	0	22,728	3,127	2,256	0	0	0	0	459.52	40,897
ARROYO LOW FLOW CHANNEL	SHT 10	30,300	CY	7,158	0	19,352	4,186	2,678	0	8,000	0	0	1.37	41,374
INSTALL ROCK JETTY	SHT 11	8,500	CY	6,777	0	22,559	3,245	2,404	0	132,000	0	0	19.65	166,985
BORROW PIT NO. 2	SHT 12	115,000	CY	27,011	0	92,148	12,659	9,065	0	1,500	0	907	1.25	143,290
EVAPORATION POND FILLING	SHT 13	49,000	CY	8,381	0	25,528	5,621	2,912	0	1,500	0	0	0.90	43,942
RUNOFF CONTROL DITCH	SHT 14	13,520	CY	7,253	0	32,855	3,001	1,800	0	250	0	0	3.34	45,159
NORTH DRAINAGE CELL	SHT 15	11,000	CY	7,223	0	32,100	4,331	2,633	0	250	0	0	4.23	46,537
SOUTH DRAINAGE CHANNEL	SHT 16	83,700	CY	18,003	0	124,254	13,225	8,250	0	3,000	0	0	1.99	166,732
PLACE RIPRAP IN CHANNELS	SHT 17	4,000	CY	5,162	0	5,978	867	879	0	197,722	0	0	47.87	210,608
MISC. SITE DRAINAGE	SHT 18	1	LS	3,698	0	3,835	466	383	0	10,875	0	0	19,257.00	19,257
SOIL COVER MATERIAL	SHT 19	91,000	CY	32,332	0	95,076	13,548	10,317	0	1,500	0	0	1.68	152,773
PLACE ROCK MULCH	SHT 20	66,351	CY	63,472	0	80,453	18,138	11,658	0	914,907	0	0	16.41	1,088,628
SOIL COVER OF ROCK MULCH	SHT 21	44,700	CY	10,036	0	30,496	3,720	2,999	0	0	0	0	1.06	47,251
SITE FENCING	SHT 22	15,000	LF	0	0	0	0	0	0	0	110,396	0	7.36	110,396
DEMOBILIZATION	SHT 23	1	LS	5,563	0	954	414	240	0	3,000	6,000	0	16,161.00	16,161
SECURITY SERVICE	SHT 24	55	WK	0	0	0	0	0	0	0	81,510	0	1,482.00	81,510
RADIATION MONITORING & QC	SHT 25	55	WK	77,054	0	0	0	0	93,500	0	0	14,300	3,360.98	184,854
SUBTOTAL				672,589	8,250	642,914	94,491	63,724	121,000	1,277,504	242,516	65,257		3,188,245

[illegible] PREVAILING WAGE DETERMINATION FOR [illegible] DATE: 29 May 91 [illegible]

WAGE RATE NO.: 88-0426 TIME: 01:31 PM

ESTIMATOR: GUY

WAGE RATE TABLE

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	EQUIP FACTOR			<-- TAXABLE FRINGES -->		<---- NON TAXABLE FRNGS ---->		<---- CANONIE ADDITIONS ---->			STRAIGHT HOURLY		PREMIUM HOURLY		AVG HOURLY	@ 50 HRS
DESCRIPTION	MULTIPLIER	SUB & TRVL CLASS	BASE WAGE	VACATION	ALL OTHER	H&W	ALL OTHER	WKRS COMP %'AGE	HEALTH INS	SUB & TRAVEL	BARE HOURLY	TOTAL HOURLY	BARE HOURLY	TOTAL HOURLY	BARE HOURLY	TOTAL HOURLY
72 MECHANIC	1.00	H2	$13.00					7.55%	$1.99	$0.00	$13.00	$17.41	$19.50	$12.04	$14.30	$18.4[illegible]
73 KEY OPERATOR	1.00	H1	$12.00					7.55%	$1.99	$3.75	$12.00	$24.97	$18.00	$20.90	$13.20	$24.16
74 LOCAL OPERATOR	1.00		$12.00					7.55%	$1.99	$0.00	$12.00	$16.22	$18.00	$[illegible].90	$13.20	$17.16
75 OILER	1.00	H2	$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.58
76 KEY LABORER	1.00	H1	$8.00					7.55%	$1.99	$3.75	$8.00	$20.23	$12.00	$13.93	$8.80	$15.97
77 LOCAL LABORER	1.00		$8.00					7.55%	$1.99	$0.00	$8.00	$11.43	$12.00	$13.93	$8.80	$11.97
78 PIPEFITTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
79 ELECTRICIAN	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
80																
81 CARPENTER FRM.	1.00	H1						7.55%	$0.00	$3.75	$0.00	$3.75	$0.00	$0.00	$0.00	$3.00
82 CARPENTER	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
83 CEMENT MASON	1.00	H2						7.55%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
84 TEAMSTERS	1.00	H1						7.55%	$0.00	$3.75	$0.00	$3.75	$0.00	$0.00	$0.00	$3.00
85																
86 MECHANIC HELPER	1.00		$10.00					7.55%	$1.99	$0.00	$10.00	$13.85	$15.00	$17.41	$11.00	$14.58
87																
88																
89																
90																
91																
92 PROJECT MANAGER	1.00	S1	$28.85					7.55%	$1.99	$6.50	$28.85	$43.01	$0.00	$0.00	$23.08	$34.41
93 SUPERINTENDENT	1.00	S1	$27.76					7.55%	$1.99	$6.50	$27.76	$41.74	$0.00	$0.00	$22.21	$33.40
94 FIELD FOREMAN	1.00	H2	$24.48					7.55%	$1.99	$0.00	$24.48	$34.31	$0.00	$0.00	$19.59	$27.45
95 PROJ. ENGINEER	1.00	S1	$23.08					7.55%	$1.99	$6.50	$23.08	$36.13	$0.00	$0.00	$18.46	$28.90
96 RES. OFFICER	1.00	S1	$21.63					7.55%	$1.99	$6.50	$21.63	$34.40	$32.45	$37.93	$23.00	$35.11
97 ASS. PROJ. ENG.	1.00	S1	$20.19					7.55%	$1.99	$6.50	$20.19	$32.67	$30.29	$35.40	$22.21	$33.22
98 ENGINEER TECH.	1.00	S1	$18.27					7.55%	$1.99	$6.50	$18.27	$30.37	$27.40	$32.03	$20.10	$30.70
99 OFFICE MANAGER	1.00		$9.50					7.55%	$1.99	$0.00	$9.50	$13.37	$14.25	$16.65	$10.45	$14.02
100 CLERK	1.00		$8.50					7.55%	$1.99	$0.00	$8.50	$12.17	$12.75	$14.90	$9.35	$12.77
101 PROJ. SUPERVISOR	1.00	S1	$24.04					7.55%	$1.99	$6.50	$24.04	$37.28	$36.06	$42.14	$26.44	$38.[illegible]
102																
103																
104																

PROJECT: FINAL REMEDIATION FOR UNC | DATE: 23 May 91 | USE TAX RATE =======> 0.00% | SHT 4 OF SHT 25

WORK: DS-60-26 | TIME: 04:31 PM | HOURLY FUEL RATE IS BASED UPON PAYING $1.15 PER GALLON.

ESTIMATOR: WTY

EQUIPMENT RENTAL RATES

EQUIPMENT ADJUSTMENT FACTORS:

			F	G	H	I	J	K	L			
BASED ON OPERATING:	176 HOURS PER MONTH				HOURLY	HOURLY	HOURLY	PERIOD	ADJUSTMENT	MONTHLY	M	1.00
			MONTHLY	USE	RENTAL	FUEL	REPAIRS	USAGE	FACTOR	WEEKLY	W	1.44
DESCRIPTION	TYPE		RENTAL	TAX	176 HR/MO	RATE	RATE	D,W,M	APPLIED	DAILY	D	1.81
***** INTERNAL EQUIPMENT *****												
121					1.00	$0.00	$2.30	$1.00 M	1.00			
122					1.00	$0.00	$1.15	$0.50 M	1.00			
123					1.00	$0.00	$0.00	$0.00 M	1.00			
124					1.00	$0.00	$1.72	$1.00 M	1.00			
125					1.00	$0.00	$0.00	$0.00 M	1.00			
126					1.00	$0.00	$0.00	$0.00 M	1.00			
127					1.00	$0.00	$0.00	$0.00 M	1.00			
128					1.00	$0.00	$0.00	$0.00 M	1.00			
129					1.00	$0.00	$0.00	$0.00 M	1.00			
130					1.00	$0.00	$0.00	$0.00 M	1.00			
131					1.00	$0.00	$0.00	$0.00 M	1.00			
***** EXTERNAL EQUIPMENT *****								M				
133 CAT 950 EXH	BACKHOE	(CY)	$1,400		1.00	$7.95	$3.45	$2.00 M	1.00			
134 CAT 215 EXH	BACKHOE	(1.25 CY)			1.00	$0.00	$4.60	$3.50 M	1.00			
135 CAT 225 EXH	BACKHOE	(1.62 CY)	$7,500		1.00	$42.61	$5.18	$4.25 M	1.00			
136 CAT 235 EXH	BACKHOE	(2.75 CY)	$9,000		1.00	$51.14	$7.48	$6.00 M	1.00			
137 CAT 245 EXH	BACKHOE W/L STICK	(3.75 CY)	$12,500		1.00	$71.02	$12.65	$7.50 M	1.00			
138 CAT 235 EXH/A	BACKHOE W/ATTACH.		$15,000		1.00	$85.23	$4.02	$3.50 M	1.00			
139 BALL & CRANE	CRANE W/WRECKING BALL	(2.75 CY)			1.00	$0.00	$4.60	$1.00 M	1.00			
140 CAT 950 FEL	FEL	(3.25 CY)			1.00	$0.00	$5.75	$5.00 M	1.00			
141 CAT 966 FEL	FEL	(4.50 CY)	$5,900		1.00	$33.52	$8.05	$6.00 M	1.00			
142 CAT 980 FEL	FEL	(5.75 CY)	$9,945		1.00	$56.51	$5.18	$5.50 M	1.00			
143 CAT 973 FEL/T	FEL/TRVL	(2.5 CY)	$6,375		1.00	$47.59	$6.90	$7.00 M	1.00			
144 CAT D5 DZR	DOZER		$5,750		1.00	$42.67	$4.60	$4.50 M	1.00			
145 CAT D6 DZR	DOZER		$6,625		1.00	$37.64	$6.32	$4.50 M	1.00			
146 CAT D6 DZR/D	DOZER/DISC				1.00	$0.00	$6.32	$4.50 M	1.00			
147 CAT D6 DZR/LGP	DOZER/LGP		$8,525		1.00	$48.44	$6.32	$4.50 M	1.00			
148 CAT D7 DZR	DOZER				1.00	$0.00	$8.05	$5.25 M	1.00			
149 CAT D8 DZR	DOZER		$12,350		1.00	$70.17	$12.65	$7.50 M	1.00			
150 CAT D9 DZR	DOZER		$14,750		1.00	$83.81	$18.40	$10.00 M	1.00			
151 CAT D9 DZR/R	DOZER/RIPR		$15,960		1.00	$90.68	$21.85	$13.00 M	1.00			
152 CAT 14 GDR	GRADER		$6,975		1.00	$39.63	$6.90	$6.50 M	1.00			
153 CAT 16 GDR	GRADER		$13,730		1.00	$78.01	$9.20	$8.00 M	1.00			
154 CAT 815 COMP	COMPACTOR		$8,000		1.00	$45.45	$12.65	$5.00 M	1.00			
155 CAT CP 563 COMP	COMPACTOR		$6,700		1.00	$71.02	$6.90	$1.00 M	1.00			
156 CRANE & OPER	CRANE & OPERATOR	(100 TN)	$18,900		1.00	$103.89	$4.60	$2.00 D	1.81			
157 MISC. EQUIPMENT			$2,000		1.00	$15.91	$4.60	$2.00 M	1.00			
158 CAT 613 SCTR/E	SCRAPER/ELEV	(11 CY)	$6,500		1.00	$33.97	$5.75	$4.00 M	1.00			
159 CAT 631 SCTR/E	SCRAPER/ELEV	(31 CY)	$10,700		1.00	$93.75	$10.35	$5.75 M	1.00			
160 CAT 627 SCTR/T	SCRAPER/TWIN	(20 CY)			1.00	$0.00	$13.11	$12.50 M	1.00			
161 CAT 637 SCTR/T	SCRAPER/TWIN	(31 CY)			1.00	$0.00	$27.51	$17.50 M	1.00			
162 WATER TRUCK	WATER TRUCK	(5,000 GAL)	$5,700		1.00	$32.39	$4.60	$3.00 M	1.00			
163 TANDEM DUMP TRUCK		(10 CY)	$8,500		1.00	$74.00	$0.00	$0.00 M	1.00			

PROJECT: FINAL REMEDIATION FOR UNC | DATE: 23 May 91 | SHT 5 OF SHT 25

[illegible] | TIME: 04:31 PM | SALES TAX RATE [illegible] 0.00%

ESTIMATOR: [illegible]

SUMMARY OF MATERIAL AND SUBCONTRACT PRICES
USED IN CURRENT ESTIMATE

B DESCRIPTION	E QUANTITY	F UNIT	G QUOTED UNIT PRICE	H SALES TAX	I UNIT PRICE WITH TAX	J TOTAL PRICE	L PLUGGED P QUOTED - Q	N NO. OF QUOTES RECEIVED	O PRICE DIFF. BETWEEN LOW & SECOND
			PERMANENT MATERIAL PRICES						
187 STRAW BALES	2,000	EA	$2.50	1.00	$2.50	$5,000.00			
188 GEOTEXTILE	470,337	SF	$0.07	1.00	$0.07	$29,423.61			
189				1.00	$0.00	$0.00			
190 MISC. SUPPLIES	5	LS	$3,000.00	1.00	$3,000.00	$15,500.00			
191 MISC. SHANK WORK	1	LS	$5,000.00	1.00	$5,000.00	$5,000.00			
192				1.00	$0.00	$0.00			
193				1.00	$0.00	$0.00			
194 CULVERT PIPE	175	LF	$25.00	1.00	$25.00	$4,375.00			
195 ACPH PIPE (83" 52")	50	LF	$100.00	1.00	$100.00	$5,000.00			
196 MISC. PIPE	1	LS	$500.00	1.00	$500.00	$500.00			
197 1.5" BASE STONE	101,280	TN	$8.37	1.00	$8.37	$847,713.60			
198 15" D50 RIPRAP	7,700	TN	$25.00	1.00	$25.00	$192,500.00			
199				1.00	$0.00	$0.00			
200				1.00	$0.00	$0.00			
201				1.00	$0.00	$0.00			
202				1.00	$0.00	$0.00			
203				1.00	$0.00	$0.00			
204				1.00	$0.00	$0.00			
			MAJOR SUPPLY PRICES						
228 RADIOLOGICAL MONITORING	55	WK	$1,700.00	1.00	$1,700.00	$93,500.00			
229				1.00	$0.00	$0.00			
230				1.00	$0.00	$0.00			
231				1.00	$0.00	$0.00			
232				1.00	$0.00	$0.00			
233				1.00	$0.00	$0.00			
234				1.00	$0.00	$0.00			
235				1.00	$0.00	$0.00			
			SUBCONTRACT PRICES:						
217				1.00	$0.00	$0.00			
218				1.00	$0.00	$0.00			
219 HAUL: SPECIAL LOADS	40	EA	$500.00	1.00	$500.00	$19,920.00			
220 HAUL: REGULAR LOADS	18	EA	$300.00	1.00	$300.00	$5,478.00			
221 HAUL: SMALL LOADS	13	EA	$150.00	1.00	$150.00	$1,992.00			
222 SECURITY SERVICE	1	WK	$1,482.00	1.00	$1,482.00	$1,482.00			
223 BARBED WIRE FENCING	11,000	LF	$4.42	1.00	$4.42	$48,620.00			
224 HEALTH & SAFETY TRAINING	160	MNHR	$25.00	1.00	$25.00	$4,000.00			
225 CRANE	83	HR	$90.00	1.00	$90.00	$7,470.00			
226 INDUSTRIAL HYGIENIST	20	MNHR	$30.00	1.00	$30.00	$600.00			
227 CHAIN LINK FENCING	4,400	LF	$14.04	1.00	$14.04	$61,776.00			

PROJECT: FINAL REMEDIATION FOR UNC | DATE: 23-May-91 | SHT 6 OF SHT 25

JOB NO.: 56-60-26 | TIME: 04:31 PM

ESTIMATOR: WJY

FIXED COST JOBSITE OVERHEADS

DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	UNIT RATE	I LABOR	J INT EQUIP	K EXT EQUIP	L FUEL	M REPAIRS	N SUPPLIES	O SUBS	P TRAVEL	Q TOTALS
245 COPY MACHINE (LONG TERM PROJECT)			55						0			0
246 PHONE SYSTEM (LONG TERM PROJECT)			500						0			0
247 PHYSICALS			500						0			0
248 UTILITY HOOKUPS:												
249 ELECTRIC			350							0		0
250 WATER			250							0		0
251 SEWER										0		0
252 GAS										0		0
253 TELEPHONE			200							0		0
254 SPECIAL TAXES									0			0
255 PERMITS			100						0			0
256 ROYALTIES ON PROCESSES									0			0
257									0			0
258									0			0
259 TEMPORARY FENCING			25						0			0
260 OFFICE FURNITURE			75						0			0
261 FAX MACHINE			300						0			0
262 COMPUTER			500						0			0
263 COMPUTER SOFTWARE			200						0			0
264 MOVING EXPENSES (LONG TERM PROJECT)									0			0
265 PROJECT SIGN									0			0
266 H & S TRAINING-OPERATORS			1,149	0								0
267 H & S TRAINING-LABORERS			959	0					0			0
268 INITIAL H & S PURCHASES			2500						0			0
269 TRAINING CLASS COSTS-EXTERNAL			700							0		0
270 TRAINING CLASS COSTS-INTERNAL			450							0		0
271									0			0
272									0			0
273									0			0
274									0			0
275									0			0
276									0			0
277									0			0
278									0			0
279									0			0
280									0			0
281									0			0
282									0			0
283									0			0
TOTAL FIXED OVERHEADS				0	0	0	0	0	0	0	0	0

PROJECT: FINAL REMEDIATION FOR UNC | DATE: 23 May 91 | SHT 7 OF SHT 25

[illegible] NO.: [illegible] | TIME: 01:31 PM

ESTIMATOR: WJY | PROJECT DURATION = 55.0 WEEKS

VARIABLE COST JOBSITE OVERHEADS

PROJECT MANAGER DESCRIPTION	REQUIRED Y OR N	REQUIRED QUANTITY	DURATION	UNIT RATE	I TOTAL LABOR	J WEEKLY LABOR	K WEEKLY INT EQUIP	L WEEKLY EXT EQUIP	M WEEKLY FUEL	N WEEKLY REPAIRS	O WEEKLY SUPPLIES	P WEEKLY SUBS	Q WEEKLY TRAVEL	Q WEEKLY TOTALS
305 PROJECT MANAGER			55	$1,462	0	0	0		0	0			0	0
306 SUPERINTENDENT	Y	1	55	$1,410	77,550	1,410	150		30	20			260	1,870
307 FIELD FORMAN			55	$1,253	0	0	0		0	0			0	0
308 PROJ. ENGINEER	Y	1	55	$1,185	65,175	1,185		150	30	20			260	1,645
309 HRS OFFICER	Y	1	55	$1,495	82,225	1,495		150	30	20			260	1,955
310 ENGINEER TECH.	Y	0.5	55	$1,275	35,063	638		75	15	10			130	868
311 OFFICE MANAGER	Y	1	55	$701	38,555	701							0	701
312 CLERK			55	$636	0	0							0	0
313 MECHANIC	Y	1	55	$923	50,765	923		150	30	20			0	1,123
314 MECHANIC HELPER	Y	0.5	55	$728	20,020	364							0	364
315 SURVEY CREW	Y	1	6	$3,500								[illegible]		[illegible]
316 OFFICE TRAILER			55	$150				0						0
317 TOOL TRAILER			55	$75			0							0
318 CHANGE TRAILER			55	$100				0						0
319 DECONTAMINATION TRAILER			55	$225				0						0
320 OFFICE SUPPLIES	Y	1	55	$50							50			50
321 SURVEY SUPPLIES	Y	1	55	$100							100			100
322 SAFETY SUPPLIES	Y	1	55	$30							30			30
323 COPY MACHINE			55	$50							0			0
324 PHONE			55	$150							0			0
325 FUEL TRUCK			55	$100				0						0
326 GREASE TRUCK	Y	1	55	$221				221						221
327 PRESSURE WASHER	Y	1	55	$225				225						225
328 SAFETY EQUIPMENT (OVA)			55	$95			0							0
329 MISC. EQUIP			55	$75			0							0
330			55											0
331 UTILITY SERVICES	Y	1	55	$50							50			50
332 POTABLE WATER			55	$40							0			0
333 SANITARY FACILITIES	Y	2	55	$40							80			80
334 SMALL TOOLS	Y	1	55	$150							150			150
335 JOBSITE PHOTOS	Y	1	55	$40							40			40
336 STORAGE TANK			55	$105				0						0
337			55											0
338 TRAVEL, EXECUTIVE			55	$500							0			0
339 KEY OPERATOR ADJUSTMENT			55	$438							0			0
340 KEY LABORER ADJUSTMENT			55	$438							0			0
341 ON-SITE QC TESTING			55	$200								0		0
342 SECURITY			55	$2,520								0		0
343														
VARIABLE JOBSITE OVERHEADS (WEEKLY)						6,716	150	971	135	90	500	[illegible]	910	[illegible]
VARIABLE JOBSITE OVERHEADS (TOTAL)		55 WEEKS				369,380	8,250	53,405	7,425	4,950	27,500	21,010	50,050	541,[illegible]

PROJECT: FINAL REMEDIATION FOR UNC

ESTIMATOR: WJY

SHT 8 OF SHT 25

JOB NO: 86-60-76

DATE: 23-May-91

TIME: 04:31 PM

ITEM DESCRIPTION: MOBILIZATION

JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 150 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CASE 580 BKH	1.00	EA	17.16		7.95	3.45	2.00				0.00		
LOCAL OPERATOR	2.00	EA	34.31								0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			75.40	0.00	7.95	3.45	2.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	88.80
SUBTOTAL	150	HOURS	11,310	0	1,193	518	300	0	0	0	0	13,321	13,321.00
MATERIALS:													
												0	
HAUL: SPECIAL LOADS	24	EA								12,000		12,000	
HAUL: REGULAR LOADS	11	EA								3,300		3,300	
HAUL: SMALL LOADS	3	EA								1,200		1,200	
MISC. SUPPLIES	1	LS							3,000			3,000	
CRANE	50	HR								4,500		4,500	
HEALTH & SAFETY TRAINING	80	MNHR								2,000		2,000	
INDUSTRIAL HYGIENIST	20	MNHRS								600		600	
												0	
												0	
												0	
												0	
TOTAL			11,310	0	1,193	518	300	0	3,000	23,600	0	39,921	39,921.00

PROJECT: FINAL REMEDIATION FOR UNC

ESTIMATOR: WJY

SHT 9 OF SHT 25

JOB NO: 86-60-76

DATE: 23-May-91

TIME: 04:31 PM

ITEM DESCRIPTION: CLEARING AND GRUBBING

JOB QUANTITY: 89 AC

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION - 116 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 15 DZR	3.00	EA	51.47		112.92	18.97	13.50				0.00		
LOCAL LABORER	3.00	EA	35.90								0.00		
CAT 966 LEL	1.00	EA	17.16		33.52	8.05	6.00				0.00		
TANDEM DUMP TRUCK	1.00	EA			50.00	0.00	0.00				0.00		
LOCAL LABORER	0.50	EA	5.98								0.00		
CREW			110.51	0.00	196.44	27.03	19.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	353.47
SUBTOTAL	116 HOURS		12,786	0	22,728	3,127	2,256	0	0	0	0	40,897	459.52

MATERIALS:

												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			12,786	0	22,728	3,127	2,256	0	0	0	0	40,897	459.52

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 10 OF SHT 25

JOB NO: 65-60.26 DATE: 23-May-91 TIME: 04:31 PM

TASK DESCRIPTION: ARROYO TOM TOM CHANNEL JOB QUANTITY: 30,200 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 70 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUES	TRAVEL	TOTAL	UNIT COST
CAT D9 DZR|"	2.00	EA	34.31		181.36	43.70	26.00				0.00		
CAT D6 DZR	2.00	EA	34.31		75.28	12.65	9.00				0.00		
CAT 14 GDR	0.50	EA	8.58		19.82	3.45	3.25				0.00		
FIELD FOREMAN	1.00	EA	25.05								0.00		
CREW			102.25	0.00	276.46	59.80	38.25	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	476.76
*REGIONAL	70	HOURS	7,158	0	19,352	4,186	2,678	0	0	0	0	33,374	1.10
MATERIALS:													
MISC. SHANK WORK	1	LS							5,000			5,000	
MISC. SUPPLIES	1	LS							3,000			3,000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			7,158	0	19,352	4,186	2,678	0	8,000	0	0	41,374	1.37

PROJECT: FINAL REMEDIATION FOR UNC | ESTIMATOR: WJY | SHT 11 OF SHT 25

JOB NO: 86-60-26 | DATE: 23-May-91 | TIME: 04:31 PM

ITEM DESCRIPTION: INSTALL ROCK JETTY | JOB QUANTITY: 8,500 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION - 38 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 631 SCPR|E	3.00	EA	51.47		281.25	30.19	26.25				0.00		
CAT D9 DZR|R	1.00	EA	17.16		90.68	21.85	13.00				0.00		
CAT 966 FEL	2.00	EA	34.31		67.04	16.10	12.00				0.00		
CAT 235 EXH|A	1.00	EA	17.16		85.23	4.02	3.50				0.00		
CAT CP 563 COMP	1.00	EA	17.16		21.02	6.90	4.00				0.00		
CAT D6 DZR|LGP	1.00	EA	17.16		48.44	6.32	4.50				0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			178.33	0.00	593.66	85.39	63.25	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	920.63
SUBTOTAL	38	HOURS	6,777	0	22,559	3,245	2,404	0	0	0	0	34,985	4.12
MATERIALS:													
MISC. SUPPLIES	1	LS							3,000			3,000	
15" D50 RIPRAP	5,160	IN							129,000			129,000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			6,777	0	22,559	3,245	2,404	0	132,000	0	0	166,985	19.65

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 12 OF SHT 25

REG NO: 86 C0 76 DATE: 23 May 91 TIME: 04:31 PM

ITEM DESCRIPTION: BACKFILL PIT NO. 2 JOB QUANTITY: 115,000 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 130 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 631 SCRAPER	4.00	EA	68.62		375.00	40.25	36.00				0.00		
CAT D9 DZR	1.00	EA	17.16		83.81	18.40	10.00				0.00		
WATER TRUCK	1.00	EA	17.16		32.39	4.60	3.00				0.00		
FIELD FOREMAN	1.00	EA	25.05								0.00		
CAT D6 DOZ	1.00	EA	17.16		78.01	9.20	8.00				0.00		
CAT D6 DZR/LGP	2.00	EA	34.31		96.98	12.65	9.00				0.00		
CAT 235 COMP	1.00	EA	17.16		49.49	12.65	5.00				0.00		
FLT LOWDER	1.00	EA	11.97								7.00		
CREW			208.57	0.00	711.94	97.75	70.00	0.00	0.00	0.00	7.00	HOURLY CREW COSTS	1,037.86
SUBTOTAL	130	HOURS	27,011	0	92,148	12,659	9,066	0	0	0	907	141,790	1.23
MATERIALS:													
MISC. SUPPLIES	1	LS							1,500			1,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			27,011	0	92,148	12,659	9,066	0	1,500	0	907	143,290	1.24

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 13 OF SHT 25

WO NO: 86-60 26 DATE: 23-May 91 TIME: 01:01 PM

ITEM DESCRIPTION: EVAPORATION POND FILLING JOB QUANTITY: 49,000 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 104 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D7 DZR	2.00	EA	34.31		107.36	8.60	20.00				0.00		
CAT 613 SCRAPER	1.00	EA	11.97								0.00		
CAT 815 COMP	1.00	EA	17.16		45.45	12.65	5.00				0.00		
WATER TRUCK	1.00	EA	17.16		32.89	4.60	3.00				0.00		
CREW			80.59	0.00	245.46	54.05	28.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	408.10
SUBTOTAL	104	HOURS	8,381	0	25,527	5,621	2,912	0	0	0	0	42,442	0.87
MATERIALS:													
MISC. SUPPLIES	1	LS							1,500			1,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			8,381	0	25,527	5,621	2,912	0	1,500	0	0	43,942	0.90

PRODUCT: FINAL REMEDIATION FOR UIC ESTIMATOR: WJY SHT 14 OF SHT 25

JOB NO: 86-60 26 DATE: 23-May-91 TIME: 04:31 PM

ITEM DESCRIPTION: RUNOFF CONTROL DITCH JOB QUANTITY: 13,520 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 90 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D6 DZR|LGP	1.00	EA	17.16		48.44	6.32	4.50				0.00		
CAT 950 FEL	1.00	EA	17.16		33.52	8.05	6.00				0.00		
LOCAL LABORER	1.00	EA	11.97								0.00		
TANDEM DUMP TRUCK	4.00	EA			200.00	0.00	0.00						
CAT D6 DZR	1.00	EA	17.16		37.64	6.32	4.50				0.00		
CAT 815 COMP	1.00	EA	17.16		45.45	12.65	5.00				0.00		
												HOURLY	
CREW			80.59	0.00	365.07	33.35	20.00	0.00	0.00	0.00	0.00	CREW COSTS	498.99
SUBTOTAL	90	HOURS	7,253	0	32,895	3,001	1,800	0	0	0	0	44,949	3.32

MATERIALS:

MISC. SUPPLIES	250
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0

TOTAL			7,253	0	32,895	3,001	1,800	0	250	0	0	45,199	3.34

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 15 OF SHT 25

JOB NO: 86-60-76 DATE: 23-May-91 TIME: 01:30 PM

TITLE DESCRIPTION: NORTH DRAINAGE CELL JOB QUANTITY: 11,000 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 81 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D9 DZR/P	1.00	EA	17.16		90.68	21.85	13.00				0.00		
CAT 385 EEL	1.00	EA	17.16		33.52	8.05	6.00				0.00		
TANDEM DUMP TRUCK	3.00	EA			150.00	0.00	0.00				0.00		
CAT 16 GDR	0.50	EA	8.58		39.01	4.60	4.00				0.00		
LOCAL LABORER	1.00	EA	11.97								0.00		
CAT D6 DZR	1.00	EA	17.16		37.64	6.32	4.50				0.00		
CAT 815 COMP	1.00	EA	17.16		45.45	12.65	5.00				0.00		
CREW			89.17	0.00	396.30	53.47	32.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	571.44
SUBTOTAL	81	HOURS	7,223	0	32,100	4,331	2,633	0	0	0	0	46,287	4.21
MATERIALS:													
MISC. SUPPLIES									250			250	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			7,223	0	32,100	4,331	2,633	0	250	0	0	46,537	4.23

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WDY SHT 16 OF SHT 25

JOB NO: 36 60 26 DATE: 23-May 91 TIME: 04:51 PM

ITEM DESCRIPTION: SOUTH DRAINAGE CHANNEL JOB QUANTITY: 83,700 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 250 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D9 DZR/P	1.00	EA	17.16		90.63	21.85	13.00				0.00		
CAT D9 DZR	1.00	EA	17.16		83.81	18.40	10.00				0.00		
CAT 966 LDR	1.00	EA	17.16		33.57	8.05	6.00				0.00		
HAUL DUMP TRUCK	5.00	EA			250.00	0.00	0.00				0.00		
CAT 16 GDR	0.50	EA	8.58		39.01	4.60	4.00				0.00		
DOZ TRIPPER	1.00	EA	11.97								0.00		
CREW			72.01	0.00	497.07	52.90	33.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	654.93
REGIONAL	250	HOURS	18,003	0	124,294	13,225	8,250	0	0	0	0	163,772	1.96
MATERIALS:													
MISC. SUPPLIES	1	LS							3,000			3,000	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTAL			18,003	0	124,294	13,225	8,250	0	3,000	0	0	166,772	1.99

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 17 OF SHT 25

JOB NO: 86 60 [illegible] DATE: 23 May 91 TIME: 01:31 PM

ITEM DESCRIPTION: PLACE RIPRAP IN CHANNELS JOB QUANTITY: 4,400 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 126 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 973 FELLI	1.00	EA	17.16		47.59	6.90	7.00				0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			41.09	0.00	47.59	6.90	7.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	102.58
SUBTOTAL	126 HOURS		5,162	0	5,978	867	879	0	0	0	0	12,886	2.93
MATERIALS:													
15" D50 RIPRAP	7,700	IN							192,500			192,500	
GEOTEXTILE	74,000	SF							5,222			5,222	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTAL			5,162	0	5,978	867	879	0	197,722	0	0	10,000	47.67

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 18 OF SHT 25

WBS NO: 86-60 26 DATE: 23-May-91 TIME: 01:31 PM

ITEM DESCRIPTION: MISC. SITE DRAINAGE JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION: 90 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 225 EXCAV	1.00	EA	17.16		42.61	5.18	4.25				0.00		
LOCAL LABORER	2.00	EA	23.93								0.00		
CREW			41.09	0.00	42.61	5.18	4.25	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	93.13
REGIONAL	90	HOURS	3,698	0	3,835	466	383	0	0	0	0	8,382	8,382.00
MATERIALS:													
CULVERT PIPE	175	LF							4,375			4,375	
ADS PIPE (83"-57")	40	LF							5,000			5,000	
MISC. SUPPLIES	1	LS							1,500			1,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			3,698	0	3,835	466	383	0	10,875	0	0	19,257	19,257.00

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 19 OF SHT 25

JOB NO: 18-60-26 DATE: 23-May-91 TIME: 04:31 PM

ITEM DESCRIPTION: SOIL COVER MATERIAL ITEM QUANTITY: 91,000 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 133 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 631 SCRPR	4.00	EA	68.62		375.00	40.25	35.00				0.00		
WATER TRUCK	1.00	EA	17.16		32.50	4.00	3.00				0.00		
FIELD FOREMAN	1.00	EA	25.05								0.00		
CAT D6 DZR	1.00	EA	17.16		37.64	6.32	4.50				0.00		
CAT D9 DZR	1.00	EA	17.16		83.81	18.40	10.00				0.00		
CAT D5 DZR	2.00	EA	34.31		65.34	9.20	9.00				0.00		
CAT CP 563 COMP	2.00	EA	34.31		42.04	13.80	8.00				0.00		
LOCAL LABORER	1.00	EA	11.97								0.00		
CAT 16 GDR	1.00	EA	17.16		28.01	9.20	8.00				0.00		
CREW			242.89	0.00	711.23	101.77	77.50	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	1,136.39
TOTAL	133	HOURS	32,332	0	95,006	13,548	10,317	0	0	0	0	151,273	1.66

MATERIALS:

MISC. SUPPLIES									1,500			1,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTAL			32,332	0	95,006	13,548	10,317	0	1,500	0	0	152,773	1.68

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WDY SHT #0 OF SHT 25

REF NO: 96-60-26 DATE: 23-May-91 TIME: 04:31 PM

ITEM DESCRIPTION: PLACE ROCK MULCH JOB QUANTITY: 66,351 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 688 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT D6 D7R	2.00	EA	34.31		75.28	12.65	9.00				0.00		
CAT CP 563 COMP	2.00	EA	34.31		42.01	13.80	8.00				0.00		
LOCAL LABORERS	2.00	LA	23.93								0.00		
CREW			92.56	0.00	117.37	26.45	17.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	253.33
SUBTOTAL	688	HOURS	63,672	0	80,693	18,198	11,658	0	0	0	0	174,221	2.62
MATERIALS:													
MISC. SUPPLIES	1	LS							3,000			3,000	
1.5" BASE STONE	107,820	TN							902,457			902,457	
GEOTEXTILE	106,000	SF							9,450			9,450	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTAL			63,672	0	80,693	18,198	11,658	0	914,907	0	0	1,089,128	16.41

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 21 OF SHT 25

JOB NO: 86 60 26 DATE: 23 May 91 TIME: 04:31 PM

ITEM DESCRIPTION: SOIL COVER OF ROCK MULCH JOB QUANTITY: 44,700 CY

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION 78 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAT 631 SCRPR	3.00	EA	51.47		281.25	30.19	26.25				0.00		
WATER TRUCK	1.00	EA	17.16		32.39	4.60	3.00				0.00		
FIELD FORMAN	1.00	EA	25.05								0.00		
CAT D6 DZR	2.00	EA	34.31		75.28	12.65	9.00				0.00		
CREW			127.98	0.00	388.92	47.44	38.25	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	602.59
SUBTOTAL	78	HOURS	10,036	0	30,496	3,720	2,999	0	0	0	0	47,251	1.06

MATERIALS:

												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			10,036	0	30,496	3,720	2,999	0	0	0	0	47,251	1.06

PROJECT: FINAL REMEDIATION FOR UNC | ESTIMATOR: WJY | SHT 22 OF SHT 25

JOB NO: 86-60-26 | DATE: 23-May-91 | TIME: 04:31 PM

ITEM DESCRIPTION: SITE FENCING | JOB QUANTITY: 15,000 LF

ESTIMATOR NOTES AND ASSUMPTIONS:

DESCRIPTION	QUANTITY	UNIT	LABOR	DURATION - HOURS: INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0 UNITS		0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
BARBED WIRE FENCING	11,000 LF									48,620		48,620	
CHAIN LINK FENCING	4,400 LF									61,776		61,776	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	110,396	0	110,396	7.36

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 23 OF SHT 25

WBS NO: 96-EA-26 DATE: 23-May-91 TIME: 04:31 PM

ITEM DESCRIPTION: DEMOBILIZATION JOB QUANTITY: 1 LS

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 120 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CAVE SEED FOR	1.00	EA	17.16		7.95	3.45	2.00				0.00		
LOCAL OPERATOR	1.00	EA	17.16								0.00		
LOCAL LABORER	1.00	EA	11.97								0.00		
CREW			46.28	0.00	7.95	3.45	2.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	59.68
SUBTOTAL	120	HOURS	5,553	0	954	414	240	0	0	0	0	7,161	7,161.00
MATERIALS:													
HAUL: SPECIAL LOADS	6	EA								3,000		3,000	
HAUL: REGULAR LOADS	3	EA								900		900	
HAUL: SMALL LOADS	2	EA								300		300	
MISC. SUPPLIES	1	LS							3,000			3,000	
OTHER	20	HR								1,800		1,800	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTAL			5,553	0	954	414	240	0	3,000	6,000	0	16,161	16,161.00

PROJECT: FINAL REMEDIATION FOR UNC ESTIMATOR: WJY SHT 24 OF SHT 25

JOB NO: 86-60 26 DATE: 23-May-91 TIME: 04:31 PM

ITEM DESCRIPTION: SECURITY SERVICE JOB QUANTITY: 55 MK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION - HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
CREW			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HOURLY CREW COSTS	0.00
SUBTOTAL	0 HOURS		0	0	0	0	0	0	0	0	0	0	0.00
MATERIALS:													
SECURITY SERVICE	55 MK									81,510		81,510	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			0	0	0	0	0	0	0	81,510	0	81,510	1,482.00

PROJECT: FINAL REMEDIATION FOR UNC | ESTIMATOR: WJY | SHT 25 OF SHT 25

WBS NO: 06-60-76 | DATE: 23-May-91 | TIME: 04:31 PM

ITEM DESCRIPTION: RADIATION MONITORING & QC | JOB QUANTITY: 55 WK

ESTIMATOR NOTES AND ASSUMPTIONS:

DURATION = 2,750 HOURS

DESCRIPTION	QUANTITY	UNIT	LABOR	INT EQUIP	EXT EQUIP	FUEL	REPAIRS	SUPPLIES	MATERIALS	SUBS	TRAVEL	TOTAL	UNIT COST
ASST. PROJ. ENG.	1.00	EA	28.02								5.20		
CREW			28.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	HOURLY CREW COSTS	28.02
SUBTOTAL	2,750	HOURS	77,054	0	0	0	0	0	0	0	14,300	91,354	1,660.98
MATERIALS:													
RADIOLOGICAL MONITORING	55	WK						93,500				93,500	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
												0	
TOTALS			77,054	0	0	0	0	93,500	0	0	14,300	184,854	3,360.98