



Smith Ranch - Highland
Uranium Project
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September 20, 2006

Paul Michalak
U.S. Nuclear Regulatory Commission
Uranium Processing Section
Fuel Cycle Facilities Branch
Division of Fuel Cycle Safety and Safeguards
Two White Flint North
11545 Rockville Pike
Rockville, MD 20852-2738

Dear Mr. Mihcalak:

In response to your letter dated August 10, 2006 regarding additional information on the Smith Ranch – Highland Uranium Project 2006-2007 Surety Estimates, SR-HUP submits the following information. After review of your questions, modifications to our surety estimate have been made. We have summarized below the changes that were made to the surety worksheets based on your questions.

Question - Smith Ranch

1. Ground Water Restoration/Well Abandonment worksheets – in the Ground Water Restoration worksheet a total of 361 and 400 wells were identified for mine Units 9 and K, respectively; however, in the Well Abandonment worksheet, no wells were identified for Mine Unit 9 and only 361 wells were identified for Mine Unit K.

For both the Groundwater Restoration worksheet and the Well Abandonment worksheet Mine Unit K wells total 361. The Mine Unit 9 estimate in the Ground Water Restoration worksheet were based on the projection that 400 wells would be in-place before the end of the surety estimate period (June 30, 2007) and the absence of these wells on the Well Abandonment worksheet was an oversight. However, the schedule for development of this Mine Unit indicates there will be a total of 241 wells in place at Mine Unit 9 by June 30, 2007. This number will be reflected in the revised work sheets and overall Surety Estimate.



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- 2 Ground Water Restoration worksheet – under the PV assumptions category, the pattern totals identified in comments for the wellfield Area Mine Units 15A, K and 9 cells do not match the totals under the Number of Patterns in Units(s) category. The house totals identified in these same comments do not match the totals in the Wellfield Buildings and Equipment Removal and Disposal worksheet, header House category.

Wellfield patterns identified (160) in the cover summary submitted in June where for Mine Units 15A & K only. This number is represented in the Ground Water Restoration worksheet under Number of Patterns in Unit(s) as 60 for Mine Unit 15A and 100 for Mine Unit K. Mine Unit 9 estimate for this item was 100 on the Ground Water Restoration worksheet and was not identified in the June cover summary. Also like that of question #1, no estimate for well patterns was included for Mine Unit 9. Mine Unit 9 pattern estimates will be included in the revised worksheet as the same for both the Ground Water and Well Abandonment worksheets. Header Houses were also identified in the cover summary for only Mine Units 15A (4) and K (5), totaling 9. Mine Unit 9 had no estimated Header Houses included in the June surety estimate. Header Houses will be included for Mine Unit 9 in the revised surety.

- 3 Equipment Removal and Loading worksheet – under the Removal and Loading Costs, and Transportation and Disposal Costs categories, virtually no Satellite SR-2 related costs are included.

SR-2 costs will be added to the Removal and Loading Cost category for this worksheet, it should be noted that SR-2 will not be operational until after June 30, thus no Transportation and Disposal Costs are included as this material would not be disposed of at an NRC-Licensed Facility.

- 4 Building Demolition and Disposal worksheet – under the Decontamination Costs category, no Satellite SR-2 related costs are included.

As stated in the response to question # 3, SR-2 is not scheduled to be operational until after the date of this current surety estimate revision (June 30, 2007). Decontamination costs will be added to the next surety estimate in the second quarter of 2007 to cover 2007-2008.

- 5 Wellfield Buildings and Equipment Removal and Disposal worksheet – the number of Header Houses assigned to Mine Units 15, 15A, and 9 under the Wellfield Piping category do not match the number assigned under the Header House category.

The surety estimate will be revised to reflect consistent numbers between the wellfield piping category (I) and the Header House category (VI) of the Wellfield Buildings and Equipment Removal and Disposal worksheet.

- 6 Wellfield and Satellite Surface Reclamation worksheet – under the Wellfield Pattern Area, Laydown Area, and Road Reclamation category, no costs associated with Mine Unit 9 are listed.

SR-2 and Mine Unit 9 will be added to this worksheet to reflect activities in these categories during the surety estimate revision period.

Question – Highland

Questions 6 & 7 refer to inconsistencies between wellfield patterns, total wells and reclamation areas for the JA Mine Unit. At the time the surety estimates were developed in May & June of this year it was anticipated that development work was to be started in the JA Mine Unit in 2007. However, due to scheduling conflicts we do not plan to conduct any activities in the JA Mine Unit during the surety report period. All Costs associated with JA Mine Unit have been removed for the Highland Surety worksheets.

We hope these comments answer your questions and we appreciate your review of our surety estimate. As per your request PRI has targeted the end of the year (December 2006) to revise the baseline assumptions for the entire surety estimate worksheet. The surety estimates will then be based on 2006 dollars from that point forward. If you have any questions please do not hesitate to give me a call at 307-385-6541 ex. 46

Sincerely,



John McCarthy
Manager, Environmental, Health & Safety

Cc: S.P. Collings w/atta
C. Foldenauer w/atta
L. Spackman, WDEQ/LQD
File 4.6.4.1

POWER RESOURCES INC HIGHLAND URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Total Restoration and Reclamation Cost Estimate					
I.	GROUNDWATER RESTORATION COST				\$10,117,329
II.	EQUIPMENT REMOVAL & DISPOSAL COST				\$103,633
III.	BUILDING DEMOLITION AND DISPOSAL COST				\$1,011,992
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST				\$1,195,414
V.	WELL ABANDONMENT COST				\$1,415,815
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST				\$94,214
VII.	TOTAL MISCELLANEOUS RECLAMATION COST				\$695,734
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE				\$14,634,131
	CPI ESCALATOR- July 1998 to May 31, 2006 (24.08%)				\$3,523,899
	SUBTOTAL				\$18,158,030
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)				\$4,539,508
	TOTAL				\$22,697,538
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)				\$22,697,500

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Ground Water Restoration				Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul, Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
PV Assumptions																
Wellfield Area (ft2)				151900	690900	1274000	32500		279500	994500	3348000	1116000	216000	891231	1200000	0
Wellfield Area (acres)				3.49	15.86	29.25	0.75	0.00	6.42	22.83	76.86	25.62	4.96	20.46	27.55	0.00
Affected Ore Zone Area (ft2)				151900	690900	1274000	32500	0	279500	994500	3348000	1116000	216000	891231	1200000	0
Avg. Completed Thickness				15	15	15	15		15	15	15	15	15	15	20	20
Porosity				0.27	0.27	0.27	0.27		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Perimeter Injection Wells/ ft2						2.05E-04			2.54E-04	2.63E-04	2.00E-04	2.43E-04	2.45E-04	2.55E-04	2.55E-04	2.55E-04
Flare Factor				2.94	2.94	2	2		2.5	2.6	2	2.4	2.5	2.5	2.5	2.5
Affected Volume (ft3)				6698790	30468690	38220000	975000	1360000	10481250	38785500	100440000	40176000	8100000	33421163	60000000	0
Kgallons per Pore Volume				13529	61535	77189	1969	10173	21168	78331	202849	81139	16359	67497	121176	0
Number of Patterns in Unit(s)																
Current				31	141	196	5	0	43	153	465	155	30	124	120	0
Estimated next report period				0	0	0	0	0	0	0	0	0	0	0	0	0
Total Estimated				31	141	196	5	0	43	153	465	155	30	124	120	0
Number of Wells in Unit(s)																
Production Wells																
Current				27	141	192			45	143	465	155	30	125	120	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				27	141	192			45	143	465	155	30	125	120	0
Injection Wells																
Current				50	319	343			91	307	903	327	67	236	240	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				50	319	343			91	307	903	327	67	236	240	0
Monitor Wells																
Current				18	67	78			38	86	134	81	20	39	41	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				18	67	78			38	86	134	81	20	39	41	0
Restoration Wells																
Current				13	30	19			0	0	15	0	0	0	0	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				13	30	19			0	0	15	0	0	0	0	0
Number of Wells per Wellfield				108	557	632	0	0	174	536	1517	563	117	400	401	0
Total Number of Wells				4087												
Average Well Depth (ft)				500	450	550	550	550	600	550	650	500	600	650	540	540
Restoration Well Installation Costs																
Number of Restoration Wells				0	0	0	0	0	0	0	0	0	0	0	0	0
Well Installation Unit Cost (\$/Well)				\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Subtotal Restoration Well Installation Costs per Wellfield				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Restoration Well Installation Costs				\$0												

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Ground Water Restoration		Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
II. Ground Water Sweep Costs														
	PV's Required	0	1	1	1	1	1	1	1	1	1	1	1	1
	Total Kgal for Treatment	0	61535	77189	1969	10173	21168	78331	202849	81139	16359	67497	121176	0
	Ground Water Sweep Unit Cost (\$/Kgal)	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77
	Subtotal Ground Water Sweep Costs per Wellfield	\$0	\$47,114	\$59,100	\$1,508	\$7,789	\$16,207	\$59,974	\$155,311	\$62,124	\$12,525	\$51,679	\$92,778	\$0
	Total Ground Water Sweep Costs	\$566,109												
III. Reverse Osmosis Costs														
	PV's Required	0	5	5	5	5	5	5	5	5	5	5	5	5
	Total Kgal for Treatment	0	307673	385946	9846	50864	105840	391656	1014243	405697	81794	337487	605880	0
	Reverse Osmosis Unit Cost (\$/Kgal)	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33
	Subtotal Reverse Osmosis Costs per Wellfield	\$0	\$407,851	\$511,609	\$13,051	\$67,425	\$140,301	\$519,179	\$1,344,481	\$537,792	\$108,426	\$447,373	\$803,155	\$0
	Total Reverse Osmosis Costs	\$4,900,643												
IV. Bioremediation/Chemical Reductant Costs														
	Total Kgal for Treatment (2 Pore Volumes)	0	123069	154378	3938	20346	42336	156662	405697	162279	32718	134995	242352	0
	Chemical Reductant Unit Cost (\$/Kgal)	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29
	Subtotal Chemical Reductant Costs per Wellfield	\$0	\$35,690	\$44,770	\$1,142	\$5,900	\$12,277	\$45,432	\$117,652	\$47,061	\$9,488	\$39,148	\$70,282	\$0
	Total Chemical Reductant Costs	\$428,842												
V. Elution Costs														
A. Elution Processing Costs														
	Kgals/Elution Required	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
	Number of Elutions	0	11	13	1	2	4	13	35	14	3	12	21	0
	Processing Unit Cost (\$/Elution)	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525
	Subtotal Processing Costs	\$0	\$5,775	\$6,825	\$525	\$1,050	\$2,100	\$6,825	\$18,375	\$7,350	\$1,575	\$6,300	\$11,025	\$0
B. Deep Well Injection Costs														
	Deep Well Injection Volume (Kgals/Elution)	12	12	12	12	12	12	12	12	12	12	12	12	12
	Total Kgal for Injection	0	132	156	12	24	48	156	420	168	36	144	252	0
	Deep Well Injection Unit Cost (\$/Kgal)	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs	\$0	\$607	\$718	\$55	\$110	\$221	\$718	\$1,933	\$773	\$166	\$663	\$1,160	\$0
	Subtotal Elution Costs per Wellfield	\$0	\$6,382	\$7,543	\$580	\$1,160	\$2,321	\$7,543	\$20,308	\$8,123	\$1,741	\$6,963	\$12,185	\$0
	Total Elution Costs	\$74,849												
VI. Monitoring and Sampling Costs														
A. Restoration Well Sampling														
	Estimated Restoration Period (Years)	5	5	5	5	2	5	5	5	5	5	5	5	5
	1. Well Sampling prior to restoration start													
	# of Wells	0	20	31	5	7	9	31	21	12	4	6	6	6
	\$/sample	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150

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Ground Water Restoration		Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
2.	Restoration Progress Sampling													
	# of Wells	0	20	31	5	7	9	31	21	12	4	6	12	
	\$/sample	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34
	Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
3.	UCL Sampling													
	# of Wells	0	70	78	5	20	29	55	89	69	16	33	69	
	\$/sample	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
	Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
	Sub-total Restoration Analyses	\$0	\$63,300	\$80,730	\$8,700	\$8,466	\$27,060	\$67,620	\$75,300	\$53,370	\$13,800	\$25,830	\$52,470	\$900
B.	Short-term Stability													
	Estimated Stabilization Period (Months)	12	12	12	12	12	12	12	12	12	12	12	12	12
	# of Wells	6	56	44	6	2	19	28	89	69	16	33	33	
	Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
	\$/sample	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
	# of Wells	5	20	31	6	2	9	31	21	12	4	6	6	6
	Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
	\$/sample	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34
	# of Wells	5	20	31	6	2	9	31	21	12	4	6	6	6
	Samples/Year	2	2	2	2	2	2	2	2	2	2	2	2	2
	\$/sample	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150
	Sub-total Short-term Stability Analyses	\$3,204	\$16,464	\$20,640	\$3,708	\$1,236	\$6,702	\$18,816	\$20,730	\$13,914	\$3,840	\$6,786	\$6,786	\$0
	Subtotal Monitoring and Sampling Costs per Wellfield	\$3,204	\$79,764	\$101,370	\$12,408	\$9,702	\$33,762	\$86,436	\$96,030	\$67,284	\$17,640	\$32,616	\$59,256	\$0
	Total Monitoring and Sampling Costs	\$599,472												
VII.	Mechanical Integrity Test (MIT) Costs													
	Five Year MIT Unit Cost (\$/well)	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71
	Number of Wells (30% of Inj. and Rest. Wells)	0	0	109	0	0	27	92	275	98	20	71	72	0
	Subtotal Mechanical Integrity Testing Costs per Wellfield	\$0	\$0	\$7,711	\$0	\$0	\$1,938	\$6,539	\$19,553	\$6,965	\$1,427	\$5,027	\$5,112	\$0
	Total Mechanical Integrity Testing Cost	\$54,272												
	TOTAL RESTORATION COSTS PER WELLFIELD	\$3,204	\$576,801	\$732,103	\$28,689	\$91,976	\$206,806	\$725,103	\$1,753,335	\$729,349	\$151,247	\$582,806	\$1,042,768	\$0
	TOTAL WELLFIELD RESTORATION COST	\$6,624,187												
VIII.	Building Utility Costs	Central Plant	Main Office	Satellite No.1	Satellite No.2	Satellite No.3								
	Electricity (\$/Month)	\$0	\$0	\$1,050	\$1,190	\$1,675								
	Propane (\$/Month)	\$0	\$0	\$680	\$0	\$1,160								
	Natural Gas (\$/Month)	\$0	\$0	\$0	\$520	\$0								
	Number of Months	0	60	6	48	48								
	Subtotal Utility Costs per Building	\$0	\$0	\$10,380	\$82,080	\$136,080								
	Total Building Utility Costs	\$228,540												

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Equipment Removal and Loading				Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
I. Removal and Loading Costs							
A. Tankage							
	Number of Tanks			26	8	14	18
	Volume of Tank Construction Material (ft ³)			1028	162	290	397
1. Labor							
	Number of Persons			3	3	3	3
	Ft ³ /Day			25	25	25	25
	Number of Days			41	6	12	16
	\$/Day/Person			\$112	\$112	\$112	\$112
	Subtotal Labor Costs			\$13,776	\$2,016	\$4,032	\$5,376
2. Equipment							
	Number of Days			41	6	12	16
	\$/Day			\$338	\$338	\$338	\$338
	Subtotal Equipment Costs			\$13,858	\$2,028	\$4,056	\$5,408
	Subtotal Tankage Removal and Loading Costs			\$27,634	\$4,044	\$8,088	\$10,784
B. PVC Pipe							
	PVC Pipe Footage			5000	1000	4000	4000
	Average PVC Pipe Diameter (inches)			3	3	3	3
	Shredded PVC Pipe Volume Reduction (ft ³ /ft)			0.016	0.016	0.016	0.016
	Volume of Shredded PVC Pipe (ft ³)			80	16	64	64
1. Labor							
	Number of Persons			2	2	2	2
	Ft/Day			200	200	200	200
	Number of Days			25	5	20	20
	\$/Day/Person			\$112	\$112	\$112	\$112
	Subtotal Labor Costs			\$5,600	\$1,120	\$4,480	\$4,480
	Subtotal PVC Pipe Removal and Loading Costs			\$5,600	\$1,120	\$4,480	\$4,480
C. Pumps							
	Number of Pumps			50	10	14	13
	Average Volume (ft ³ /pump)			4.93	4.93	4.93	4.93
	Volume of Pumps (ft ³)			246.5	49.3	69.02	64.09
1. Labor							
	Number of Persons			1	1	1	1
	Pumps/Day			2	2	2	2
	Number of Days			25	5	7	7
	\$/Day/Person			\$112	\$112	\$112	\$112
	Subtotal Labor Costs			\$2,800	\$560	\$784	\$784
	Subtotal Pump Removal and Loading Costs			\$2,800	\$560	\$784	\$784
D. Dryer							
	Dryer Volume (ft ³)			885	0	0	0
1. Labor							
	Number of Persons			5	0	0	0
	Ft ³ Day			175	0	0	0
	Number of Days			5	0	0	0
	\$ Day Person			\$112	\$112	\$112	\$112
	Total Labor Cost			\$2,800	\$0	\$0	\$0
	Total Dryer Dismantling and Loading Cost			\$2,800	\$0	\$0	\$0
E. RO Units							

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Equipment Removal and Loading				Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
	Number of RO Units						
	Current			0	3	0	0
	Planned			0	0	1	1
	Average Volume (ft ³ /RO Unit)			250	250	250	250
I.	Labor						
	Number of Persons			2	2	2	2
	Number of Days			0	1.5	0.5	0.5
	\$/Day/Person			\$112	\$112	\$112	\$112
	Subtotal Labor Costs			\$0	\$336	\$112	\$112
	Subtotal RO Unit Removal and Loading Costs			\$0	\$336	\$112	\$112
	Subtotal Equipment Removal and Loading Costs per Facility			\$38,834	\$6,060	\$13,464	\$16,160
	Total Equipment Removal and Loading Costs			\$74,518			
II.	Transportation and Disposal Costs (NRC-Licensed Facility)						
A.	Tankage						
	Volume of Tank Construction Material (ft ³)			1028	162	290	397
	Volume for Disposal Assuming 10% Void Space (ft ³)			1131	178	319	436
	Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Tankage Transportation and Disposal Costs			\$6,356	\$1,000	\$1,793	\$2,450
B.	PVC Pipe						
	Volume of Shredded PVC Pipe (ft ³)			80	16	64	64
	Volume for Disposal Assuming 10% Void Space (ft ³)			88	18	70	70
	Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal PVC Pipe Transportation and Disposal Costs			\$495	\$101	\$393	\$393
C.	Pumps						
	Volume of Pumps (ft ³)			246.5	49.3	69.02	64.09
	Volume for Disposal Assuming 10% Void Space (ft ³)			271	54	76	70
	Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Pump Transportation and Disposal Costs			\$1,523	\$303	\$427	\$393
D.	Dryer						
	Dryer Volume (ft ³)			885	0	0	0
	Volume for Disposal Assuming Dryer Remains Intact (ft ³)			885	0	0	0
	Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62
	Total Dryer Transportation and Disposal Costs			\$4,974	\$0	\$0	\$0
E.	RO Units						
	Volume of RO Units (ft ³)			0	750	250	250
	Volume for Disposal Assuming 50% Volume Reduction (ft ³)			0	375	125	125
	Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal RO Unit Transportation and Disposal Costs			\$0	\$2,108	\$703	\$703
	Subtotal Equipment Transportation and Disposal Costs per Facility			\$13,348	\$3,512	\$3,316	\$3,939
	Total Equipment Transportation and Disposal Costs			\$24,115			
III.	Health and Safety Costs						
	Radiation Safety Equipment			\$1,250	\$1,250	\$1,250	\$1,250
	Total Health and Safety Costs			\$5,000			
	SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY			\$53,432	\$10,822	\$18,030	\$21,349
	TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS			\$103,633			

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Building Demolition and Disposal				Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab. Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
I. Decontamination Costs												
A. Wall Decontamination												
	Area to be Decontaminated (ft ²)			131000	0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft ²)			1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs			\$65,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B. Concrete Floor Decontamination												
	Area to be Decontaminated (ft ²)			17820	0	6000	9600	9600	0	0	0	0
	Application Rate (Gallons/ft ²)			4	4	4	4	4	4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs			\$35,640	\$0	\$12,000	\$19,200	\$19,200	\$0	\$0	\$0	\$0
C. Deep Well Injection Costs												
	Total Kgals for Injection			202.28	0	24	38.4	38.4	0	0	0	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs			\$931	\$0	\$110	\$177	\$177	\$0	\$0	\$0	\$0
	Subtotal Decontamination Costs per Building			\$102,071	\$0	\$12,110	\$19,377	\$19,377	\$0	\$0	\$0	\$0
	Total Decontamination Costs			\$158,021								
II. Demolition Costs												
A. Building												
	Assumptions:											
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment											
	Volume of Building (ft ³)			794000	30720	192000	320000	320000	37560	91000	333000	5600
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs			\$117,962	\$4,564	\$28,525	\$47,541	\$47,541	\$5,580	\$13,520	\$49,473	\$832
B. Concrete Floor												
	Area of Concrete Floor (ft ²)			23760	0	8000	12800	12800	0	6500	18000	0
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)			\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)			\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs			\$65,438	\$0	\$22,033	\$35,253	\$35,253	\$0	\$17,902	\$49,574	\$0
C. Concrete Footing												
	Length of Concrete Footing (ft)			622	0	360	480	480	0	360	580	0
	Demolition Unit Cost per WDEQ Guide. No.12, App.K (\$/lin. ft)			\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)			\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs			\$6,188	\$0	\$3,581	\$4,775	\$4,775	\$0	\$3,581	\$5,770	\$0
	Subtotal Demolition Costs per Building			\$189,588	\$4,564	\$54,139	\$87,569	\$87,569	\$5,580	\$35,003	\$104,817	\$832
	Total Demolition Costs			\$696,995								
III. Disposal Costs												
A. Building												
	Volume of Building (cy)			29407	1138	7111	11852	11852	1391	3370	12333	207
1. On-Site												
	Assumptions:											
	On-site disposal cost of \$0.54/cy											
	Percentage (%)			100	0	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)			29407	0	7111	11852	11852	1391	3370	12333	207
	Disposal Unit Cost (\$/cy)			\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54

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				Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab.Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
Building Demolition and Disposal												
			Subtotal On-Site Disposal Costs	\$15,880	\$0	\$3,840	\$6,400	\$6,400	\$751	\$1,820	\$6,660	\$112
		2.	NRC-Licensed Facility									
			Percentage (%)	0	100	0	0	0	0	0	0	0
			Volume for Disposal (ft³)	0	2624	0	0	0	0	0	0	0
			Volume for Disposal Assuming 10% Void Space (ft³)	0	2886	0	0	0	0	0	0	0
			Transportation and Disposal Unit Cost (\$/ft³)	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
			Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$16,219	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Subtotal Building Disposal Costs	\$15,880	\$16,219	\$3,840	\$6,400	\$6,400	\$751	\$1,820	\$6,660	\$112
		B.	Concrete Floor									
			Area of Concrete Floor (ft²)	23760	0	8000	12800	12800	0	6500	18000	0
			Average Thickness of Concrete Floor (ft)	0.75	0	0.67	0.67	0.67	0	0.5	0.5	0
			Volume of Concrete Floor (ft³)	17820	0	5360	8576	8576	0	3250	9000	0
			Volume of Concrete Floor (cy)	660	0	199	318	318	0	120	333	0
		1.	On-Site									
			Percentage (%)	75	0	75	75	75	0	100	100	0
			Volume for Disposal (cy)	495	0	149	238	238	0	120	333	0
			Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
			Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
			Subtotal On-Site Disposal Costs	\$2,017	\$0	\$607	\$971	\$971	\$0	\$490	\$1,358	\$0
		2.	NRC-Licensed Facility									
			Assumptions:									
			Additional \$2.00/ft³ for segregation of concrete									
			Percentage (%)	25	0	25	25	25	0	0	0	0
			Volume for Disposal (ft³)	4455	0	1340	2144	2144	0	0	0	0
			Segregation and Loading Unit Cost (\$/ft³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
			Transportation and Disposal Unit Cost (\$/ft³)	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
			Subtotal NRC-Licensed Facility Disposal Costs	\$33,947	\$0	\$10,211	\$16,337	\$16,337	\$0	\$0	\$0	\$0
			Subtotal Concrete Floor Disposal Costs	\$35,964	\$0	\$10,818	\$17,308	\$17,308	\$0	\$490	\$1,358	\$0
		C.	Concrete Footing									
			Length of Concrete Footing (ft)	622	0	360	480	480	0	360	580	0
			Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	0
			Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	0
			Volume of Concrete Footing (ft³)	2488	0	1440	1920	1920	0	1440	2320	0
			Volume of Concrete Footing (cy)	92	0	53	71	71	0	53	86	0
			Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
			Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
			Subtotal Concrete Footing Disposal Costs	\$375	\$0	\$217	\$290	\$290	\$0	\$217	\$350	\$0
			Subtotal Disposal Costs per Building	\$52,219	\$16,219	\$14,875	\$23,998	\$23,998	\$751	\$2,527	\$8,368	\$112
			Total Disposal Costs	\$151,976								
		III.	Health and Safety Costs									
			Radiation Safety Equipment	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0
			Total Health and Safety Costs	\$5,000								
			SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	\$344,878	\$21,783	\$82,124	\$131,944	\$131,944	\$6,331	\$37,530	\$113,185	\$944
			TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	\$1,011,992								

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Building Demolition and Disposal				Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
I. Decontamination Costs											
A. Wall Decontamination											
	Area to be Decontaminated (ft ²)			0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft ²)			1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B. Concrete Floor Decontamination											
	Area to be Decontaminated (ft ²)			0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft ²)			4	4	4	4	4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Deep Well Injection Costs											
	Total Kgals for Injection			0	0	0	0	0	0	0	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Decontamination Costs per Building			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Decontamination Costs										
II. Demolition Costs											
A. Building											
	Assumptions:										
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment										
	Volume of Building (ft ³)			73000	27000	72000	20000	16500	6300	0	0
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs			\$10,845	\$4,011	\$10,697	\$2,971	\$2,451	\$936	\$0	\$0
B. Concrete Floor											
	Area of Concrete Floor (ft ²)			5400	2100	6000	0	800	180	1256	7854
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)			\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)			\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs			\$14,872	\$5,784	\$16,525	\$0	\$2,203	\$496	\$3,459	\$21,631
C. Concrete Footing											
	Length of Concrete Footing (ft)			300	200	340	0	120	54	0	0
	Demolition Unit Cost per WDEQ Guide. No.12, App.K (\$/lin. ft)			\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)			\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs			\$2,984	\$1,990	\$3,382	\$0	\$1,194	\$537	\$0	\$0
	Subtotal Demolition Costs per Building			\$28,701	\$11,785	\$30,604	\$2,971	\$5,848	\$1,969	\$3,459	\$21,631
	Total Demolition Costs										
III. Disposal Costs											
A. Building											
	Volume of Building (cy)			2704	1000	2667	741	611	233	0	0
	1. On-Site										
	Assumptions:										
	On-site disposal cost of \$0.54/cy										
	Percentage (%)			100	100	100	100	100	100	0	0
	Volume for Disposal (cubic yards)			2704	1000	2667	741	611	233	0	0
	Disposal Unit Cost (\$/cy)			\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54

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Building Demolition and Disposal			Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
		Subtotal On-Site Disposal Costs	\$1,460	\$540	\$1,440	\$400	\$330	\$126	\$0	\$0
	2.	NRC-Licensed Facility								
		Percentage (%)	0	0	0	0	0	0	0	0
		Volume for Disposal (ft ³)	0	0	0	0	0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft ³)	0	0	0	0	0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
		Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Subtotal Building Disposal Costs	\$1,460	\$540	\$1,440	\$400	\$330	\$126	\$0	\$0
	B.	Concrete Floor								
		Area of Concrete Floor (ft ²)	5400	2100	6000	0	800	180	1256	7854
		Average Thickness of Concrete Floor (ft)	0.5	0.5	0.5	0	0.5	0.5	1	1
		Volume of Concrete Floor (ft ³)	2700	1050	3000	0	400	90	1256	7854
		Volume of Concrete Floor (cy)	100	39	111	0	15	3	47	291
	1.	On-Site								
		Percentage (%)	100	100	100	0	100	100	100	100
		Volume for Disposal (cy)	100	39	111	0	15	3	47	291
		Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
		Subtotal On-Site Disposal Costs	\$407	\$158	\$453	\$0	\$60	\$14	\$190	\$1,185
	2.	NRC-Licensed Facility								
		Assumptions:								
		Additional \$2.00/ft ³ for segregation of concrete								
		Percentage (%)	0	0	0	0	0	0	0	0
		Volume for Disposal (ft ³)	0	0	0	0	0	0	0	0
		Segregation and Loading Unit Cost (\$/ft ³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
		Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
		Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Subtotal Concrete Floor Disposal Costs	\$407	\$158	\$453	\$0	\$60	\$14	\$190	\$1,185
	C.	Concrete Footing								
		Length of Concrete Footing (ft)	300	200	340	0	120	54	0	0
		Average Depth of Concrete Footing (ft)	4	4	4	0	4	4	4	4
		Average Width of Concrete Footing (ft)	1	1	1	0	1	1	1	1
		Volume of Concrete Footing (ft ³)	1200	800	1360	0	480	216	0	0
		Volume of Concrete Footing (cy)	44	30	50	0	18	8	0	0
		Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
		Subtotal Concrete Footing Disposal Costs	\$181	\$121	\$205	\$0	\$72	\$33	\$0	\$0
		Subtotal Disposal Costs per Building	\$2,048	\$819	\$2,098	\$400	\$462	\$173	\$190	\$1,185
		Total Disposal Costs								
	III.	Health and Safety Costs								
		Radiation Safety Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Total Health and Safety Costs								
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$30,749	\$12,604	\$32,702	\$3,371	\$6,310	\$2,142	\$3,649	\$22,816
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS										

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Building Demolition and Disposal				Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bldg.
I. Decontamination Costs							
A. Wall Decontamination							
	Area to be Decontaminated (ft ²)			0	0	0	0
	Application Rate (Gallons/ft ²)			1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs			\$0	\$0	\$0	\$0
B. Concrete Floor Decontamination							
	Area to be Decontaminated (ft ²)			1260	1260	0	0
	Application Rate (Gallons/ft ²)			4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs			\$2,520	\$2,520	\$0	\$0
C. Deep Well Injection Costs							
	Total Kgals for Injection			5.04	5.04	0	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs			\$23	\$23	\$0	\$0
	Subtotal Decontamination Costs per Building			\$2,543	\$2,543	\$0	\$0
	Total Decontamination Costs						
II. Demolition Costs							
A. Building							
	Assumptions:						
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment						
	Volume of Building (ft ³)			15120	15120	8640	14400
	Demolition Unit Cost per WDEQ Guideline No.12, App K (\$/ft ³)			\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs			\$2,246	\$2,246	\$1,284	\$2,139
B. Concrete Floor							
	Area of Concrete Floor (ft ²)			1260	1260	0	600
	Demolition Unit Cost per WDEQ Guideline No.12, App K (\$/ft ²)			\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)			\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs			\$3,470	\$3,470	\$0	\$1,652
C. Concrete Footing							
	Length of Concrete Footing (ft)			144	144	0	100
	Demolition Unit Cost per WDEQ Guide. No.12, App K (\$/lin. ft)			\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)			\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs			\$1,432	\$1,432	\$0	\$995
	Subtotal Demolition Costs per Building			\$7,148	\$7,148	\$1,284	\$4,786
	Total Demolition Costs						
III. Disposal Costs							
A. Building							
	Volume of Building (cy)			560	560	320	533
	1. On-Site						
	Assumptions:						
	On-site disposal cost of \$0.54/cy						
	Percentage (%)			100	100	100	100
	Volume for Disposal (cubic yards)			560	560	320	533
	Disposal Unit Cost (\$/cy)			\$0.54	\$0.54	\$0.54	\$0.54

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Building Demolition and Disposal				Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bldg.
		Subtotal On-Site Disposal Costs		\$302	\$302	\$173	\$288
	2.	NRC-Licensed Facility					
		Percentage (%)		0	0	0	0
		Volume for Disposal (ft ³)		0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft ³)		0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62
		Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0
		Subtotal Building Disposal Costs		\$302	\$302	\$173	\$288
	B.	Concrete Floor					
		Area of Concrete Floor (ft ²)		1260	1260	0	600
		Average Thickness of Concrete Floor (ft)		0.5	0.5	0	0.5
		Volume of Concrete Floor (ft ³)		630	630	0	300
		Volume of Concrete Floor (cy)		23	23	0	11
	1.	On-Site					
		Percentage (%)		100	100	0	100
		Volume for Disposal (cy)		23	23	0	11
		Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07
		Subtotal On-Site Disposal Costs		\$95	\$95	\$0	\$45
	2.	NRC-Licensed Facility					
		Assumptions:					
		Additional \$2.00/ft ³ for segregation of concrete					
		Percentage (%)		0	0	0	0
		Volume for Disposal (ft ³)		0	0	0	0
		Segregation and Loading Unit Cost (\$/ft ³)		\$2.00	\$2.00	\$2.00	\$2.00
		Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62
		Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0
		Subtotal Concrete Floor Disposal Costs		\$95	\$95	\$0	\$45
	C.	Concrete Footing					
		Length of Concrete Footing (ft)		144	144	0	100
		Average Depth of Concrete Footing (ft)		4	4	4	4
		Average Width of Concrete Footing (ft)		1	1	1	1
		Volume of Concrete Footing (ft ³)		576	576	0	400
		Volume of Concrete Footing (cy)		21	21	0	15
		Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07
		Subtotal Concrete Footing Disposal Costs		\$87	\$87	\$0	\$60
		Subtotal Disposal Costs per Building		\$484	\$484	\$173	\$393
		Total Disposal Costs					
	III.	Health and Safety Costs					
		Radiation Safety Equipment		\$0	\$0	\$0	\$0
		Total Health and Safety Costs					
		SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$10,175	\$10,175	\$1,457	\$5,179
		TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					

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Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
I. Wellfield Piping													
Assumptions:													
Number of Header Houses per Wellfield			5	18	20	4	15	43	10	3	6	7	
Length of Piping per Header House (ft)			15000	15000	15000	15000	15000	15000	15000	15000	15000	12500	
Total Length of Piping (ft)			75000	270000	300000	60000	225000	645000	150000	45000	90000	87500	
A. Removal and Loading													
Wellfield Piping Removal Unit Cost (\$/ft of pipe)			\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31
Subtotal Wellfield Piping Removal and Loading Costs			\$23,250	\$83,700	\$93,000	\$18,600	\$69,750	\$199,950	\$46,500	\$13,950	\$27,900	\$27,125	\$0
B. Transport and Disposal Costs (NRC-Licensed Facility)													
Average Diameter of Piping (inches)			2	2	2	2	2	2	2	2	2	2	2
Chipped Volume Reduction (ft ³ /ft)			0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft ³)			375	1350	1500	300	1125	3225	750	225	450	437.5	0
Volume for Disposal Assuming 10% Void Space (ft ³)			413	1485	1650	330	1238	3548	825	248	495	481	0
Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
Subtotal Wellfield Piping Transport and Disposal Costs			\$2,321	\$8,346	\$9,273	\$1,855	\$6,958	\$19,940	\$4,637	\$1,394	\$2,782	\$2,703	\$0
Wellfield Piping Costs per Wellfield			\$25,571	\$92,046	\$102,273	\$20,455	\$76,708	\$219,890	\$51,137	\$15,344	\$30,682	\$29,828	\$0
C. Capitol Costs													
PVC Pipe Shredder			\$40,000										
Total Wellfield Piping Costs			\$703,934										
II. Well Pumps and Tubing													
Assumptions:													
Pump and tubing removal costs included under ground water restoration labor costs													
60% of production/injection wells contain pumps and/or tubing													
A. Pump and Tubing Transportation and Disposal													
Number of Production Wells			27	141	192	45	143	465	155	30	125	122	
Number of Injection Wells			50	319	343	91	307	903	327	67	236	234	0
1. Pump Volume													
Number of Production Wells with Pumps			16	85	115	27	86	279	93	18	75	73	0
Average Pump Volume (ft ³)			1	1	1	1	1	1	1	1	1	1	1
Pump Volume per Wellfield (ft ³)			16	85	115	27	86	279	93	18	75	73	0
2. Tubing Volume													
Assumptions:													
Average tubing length/wellfield based on average well depth minus 25 ft													
Number of Production Wells with Tubing			16	85	115	27	86	279	93	18	75	73	0
Number of Injection Wells with Tubing			30	191	206	55	184	542	196	40	142	140	0
Average Tubing Length per Well (ft)			475	425	525	575	525	625	475	575	625	515	
Tubing Length per Wellfield (ft)			21850	117300	168525	47150	141750	513125	137275	33350	135625	109695	0
Diameter of Production Well Fiberglass Tubing (inches)			2	2	2	2	2	2	2	2	2	2	2
Diameter of Injection Well HDPE Tubing (inches)			1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Chipped Volume Reduction (ft ³ /ft)			0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft ³)			109	587	843	236	709	2566	686	167	678	548	0
Volume of Pump and Tubing (ft ³)			125	672	958	263	795	2845	779	185	753	621	0
Volume for Disposal Assuming 10% Void Space (ft ³)			138	739	1054	289	875	3130	857	204	828	683	0
Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
Subtotal Pump and Tubing Transport and Disposal Costs			\$776	\$4,153	\$5,923	\$1,624	\$4,918	\$17,591	\$4,816	\$1,146	\$4,653	\$3,838	\$0
Pump and Tubing Costs per Wellfield			\$776	\$4,153	\$5,923	\$1,624	\$4,918	\$17,591	\$4,816	\$1,146	\$4,653	\$3,838	\$0
Total Pump and Tubing Costs			\$49,438										
III. Buried Trunkline													
Assumptions:													
			A/B-Wellfields			D/E-Wellfields							

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A/B-Wellfields use the same trunkline													
D/E-Wellfields use the same trunkline													
Length of Trunkline Trench (ft)			6500		5900	12000		11700	13200	5500	10750	2500	0
A. Removal and Loading													
Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.85		\$0.85	\$0.85		\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85
Subtotal Trunkline Removal and Loading Costs			\$5,525		\$5,015	\$10,200		\$9,945	\$11,220	\$4,675	\$9,138	\$2,125	\$0
B. Transport and Disposal Costs (NRC-Licensed Facility)													
1. 3" HDPE Trunkline													
Piping Length (ft)			6500		5900	12000		11700	13200	5500	10750	0	0
Chipped Volume Reduction (ft ³ /ft)			0.022		0.022	0.022		0.022	0.022	0.022	0.022	0.022	0.022
Chipped Volume (ft ³)			143		129.8	264		257.4	290.4	121	236.5	0	0
2. 6" HDPE Trunkline													
Piping Length (ft)			0		0	0		0	0	11000	3000	0	0
Chipped Volume Reduction (ft ³ /ft)			0.078		0.078	0.078		0.078	0.078	0.078	0.078	0.078	0.078
Chipped Volume (ft ³)			0		0	0		0	0	858	234	0	0
3. 10" HDPE Trunkline													
Piping Length (ft)			13000		0	0		0	0	0	750	2000	0
Chipped Volume Reduction (ft ³ /ft)			0.277		0.277	0.277		0.277	0.277	0.277	0.277	0.277	0.277
Chipped Volume (ft ³)			3601		0	0		0	0	0	207.75	554	0
4. 12" HDPE Trunkline													
Piping Length (ft)			0		11800	24000		0	0	0	0	2000	0
Chipped Volume Reduction (ft ³ /ft)			0.293		0.293	0.293		0.293	0.293	0.293	0.293	0.293	0.293
Chipped Volume (ft ³)			0		3457.4	7032		0	0	0	0	586	0
5. 14" HDPE Trunkline													
Piping Length (ft)			0		0	0		23400	26400	0	8500	0	0
Chipped Volume Reduction (ft ³ /ft)			0.359		0.359	0.359		0.359	0.359	0.359	0.359	0.359	0.359
Chipped Volume (ft ³)			0		0	0		8400.6	9477.6	0	3051.5	0	0
6. 18" HDPE Trunkline													
Piping Length (ft)			0	0	0	0	0	0	0	0	0	0	0
Chipped Volume Reduction (ft ³ /ft)			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Chipped Volume (ft ³)			0	0	0	0	0	0	0	0	0	0	0
Total Trunkline Chipped Volume (ft ³)			3744	0	3587.2	7296		8658	9768	979	3729.75	1140	0
Volume for Disposal Assuming 10% Void Space (ft ³)			4118		3946	8026		9524	10745	1077	4103	1254	0
Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62		\$5.62	\$5.62		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
Subtotal Trunkline Transport and Disposal Costs			\$23,143		\$22,177	\$45,106		\$53,525	\$60,387	\$6,053	\$23,059	\$7,047	\$0
Trunkline Decommissioning Costs per Wellfield			\$28,668		\$27,192	\$55,306		\$63,470	\$71,607	\$10,728	\$32,197	\$9,172	\$0
Total Trunkline Decommissioning Costs			\$298,340										
IV. Well Houses													
Total Quantity			90	490	554	136	450	1383	482	97	361	213	
Average Well House Volume (ft ³)			12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
A. Removal													
Total Volume (ft ³)			1125	6125	6925	1700	5625	17287.5	6025	1212.5	4512.5	2662.5	0
Demolition Unit Cost per WDEQ Guideline No. 12, App.K (\$/ft ³)			\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
Subtotal Well House Demolition Costs			\$167	\$910	\$1,029	\$253	\$836	\$2,568	\$895	\$180	\$670	\$396	\$0
B. Survey and Decontamination													
Assumptions:													
Cost per Well House			\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5
Subtotal Survey and Decontamination Costs			\$450	\$2,450	\$2,770	\$680	\$2,250	\$6,915	\$2,410	\$485	\$1,805	\$1,065	\$0
C. Disposal													

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Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-G	Mine Unit-H	Mine Unit-I	Mine Unit-J	Mine Unit-K
Total Volume (cy)			42	227	256	63	208	640	223	45	167	99	0
Volume for Disposal Assuming 10% Void Space (cy)			46	250	282	69	229	704	245	49	184	108	0
Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)			\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98
Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20
Subtotal On-Site Disposal Costs			\$239	\$1,299	\$1,465	\$358	\$1,190	\$3,658	\$1,273	\$255	\$956	\$561	\$0
Well House Removal and Disposal Costs per Wellfield			\$856	\$4,659	\$5,264	\$1,291	\$4,276	\$13,141	\$4,578	\$920	\$3,431	\$2,022	\$0
Total Well House Removal and Disposal Costs			\$40,438										
VI. Header Houses													
Total Quantity			5	18	20	4	15	43	10	3	6	9	
Average Header House Volume (ft³)			1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	
A. Removal													
Total Volume (ft³)			8000	28800	32000	6400	24000	68800	16000	4800	9600	14400	0
Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft³)			\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
Unit Cost in \$/ft³ (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
Subtotal Building Demolition Costs			\$1,189	\$4,279	\$4,754	\$951	\$3,566	\$10,221	\$2,377	\$713	\$1,426	\$2,139	\$0
B. Survey and Decontamination													
Assumptions:													
Cost per Header House			\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
Subtotal Survey and Decontamination Costs			\$1,000	\$3,600	\$4,000	\$800	\$3,000	\$8,600	\$2,000	\$600	\$1,200	\$1,800	\$0
C. Disposal													
Total Volume (cy)			296	1067	1185	237	889	2548	593	178	356	533	0
Volume for Disposal Assuming 10% Void Space (cy)			326	1173	1304	261	978	2803	652	196	391	587	0
Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)			\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98
Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20
Subtotal On-Site Disposal Costs			\$1,694	\$6,094	\$6,775	\$1,356	\$5,081	\$14,563	\$3,387	\$1,018	\$2,031	\$3,050	\$0
Header House Removal and Disposal Costs per Wellfield			\$3,883	\$13,973	\$15,529	\$3,107	\$11,647	\$33,384	\$7,764	\$2,331	\$4,657	\$6,989	\$0
Total Header House Removal and Disposal Costs			\$103,264										
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD			\$59,754	\$114,831	\$156,181	\$81,783	\$97,549	\$347,476	\$139,902	\$30,469	\$75,620	\$51,849	\$0
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS			\$1,195,414										

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Well Abandonment		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
I.	Well Abandonment (Wellfields)											
	# of Production Wells	0	141	192	45	143	465	155	30	125	120	
	# of Injection Wells	0	319	343	91	307	903	327	67	236	240	
	# of Monitoring Wells	0	67	78	38	86	134	81	20	39	41	
	# of Restoration Wells	0	30	19	0	0	15	0	0	0	0	0
	Total Number of Wells	0	557	632	174	536	1517	563	117	400	401	0
	Average Diameter of Casing (inches)	5	5	5	5	5	5	5	5	5	5	4.5
	Average Depth (ft)	500	450	550	600	550	650	500	600	650	540	500
	Well Abandonment Unit Cost (\$/well)	\$280	\$277	\$284	\$287	\$284	\$290	\$280	\$287	\$290	\$284	\$284
	Subtotal Abandonment Cost per Wellfield	\$0	\$154,233	\$179,235	\$49,929	\$152,010	\$440,385	\$157,781	\$33,573	\$116,120	\$113,724	\$0
	Total Wellfield Abandonment Costs	\$1,396,990										
II.	Waste Disposal Well Abandonment	Morton No.1-20	Vollman No.33-27	(Construction not anticipated)								
	A. Well Plugging											
	Drill Rig Operation (\$/hr)	150	0									
	Number of Hours	31	0									
	Drill Rig Operating Costs	\$4,650	\$0									
	Cementing Costs	\$7,500	\$0									
	Equipment Transport Costs	\$1,000	\$0									
	Well Cap Welding Costs	\$1,000	\$0									
	Brine Makeup and Injection Costs	\$1,500	\$0									
	Subtotal Well Plugging Costs per Well	\$15,650	\$0									
	B. Pump Dismantling and Decontamination											
	Number of Persons	2	0									
	Number of Pumps	2	0									
	Pumps/Day	0.5	0									
	Number of Days	4	0									
	\$/Day/Person	\$112	\$0									
	Subtotal Dismantling and Decon Costs per Well	\$896	\$0									
	C. Tubing String Disposal (NRC-Licensed Facility)											
	Length of Tubing String (ft)	9000	0									
	Diameter of Tubing String (inches)	2.875	0									
	Volume of Tubing String (ft ³)	406	0									
	Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$0.00									
	Subtotal Tubing String Disposal Costs per Well	\$2,279	\$0									
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$18,825	\$0									
	Total Waste Disposal Well Abandonment Costs	\$18,825										
	TOTAL WELL ABANDONMENT COSTS	\$1,415,815										

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Wellfield and Satellite Surface Reclamation			Mine Unit-A/B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
I.	Wellfield Pattern Area Reclamation											
	Pattern Area (acres)		20	31	6.5	23	77	26	5	21	28	0
	Disking/Seeding Unit Cost (\$/acre)		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
	Subtotal Pattern Area Reclamation Costs per Wellfield		\$4,000	\$6,200	\$1,300	\$4,600	\$15,400	\$5,200	\$1,000	\$4,200	\$5,600	\$0
	Total Wellfield Pattern Area Reclamation Costs		\$47,500									
II.	Wellfield Road Reclamation											
	A. Road Construction Before January 1, 1997											
	Length of Wellfield Roads (1000 ft)		12.2	11.3	2.4	13.3	15	0	0	0	0	0
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)		\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586
	Subtotal Pre-1997 Wellfield Road Reclamation Costs		\$7,149	\$6,622	\$1,406	\$7,794	\$8,790	\$0	\$0	\$0	\$0	\$0
	B. Road Construction After January 1, 1997											
	Length of Wellfield Roads (1000 ft)		0.6	0	0	0	3	15.7	5	5	5	
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)		\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305
	Subtotal Post-1997 Wellfield Road Reclamation Costs		\$183	\$0	\$0	\$0	\$915	\$4,789	\$1,525	\$1,525	\$1,525	\$0
	Subtotal Road Reclamation Costs per Wellfield		\$7,332	\$6,622	\$1,406	\$7,794	\$9,705	\$4,789	\$1,525	\$1,525	\$1,525	\$0
	Total Wellfield Road Reclamation Costs		\$42,223									
	SUBTOTAL SURFACE RECLAMATION COSTS PER WELLFIELD		\$11,332	\$12,822	\$2,706	\$12,394	\$25,105	\$9,989	\$2,525	\$5,725	\$7,125	\$0
	TOTAL WELLFIELD SURFACE RECLAMATION COSTS		\$89,723									
III.	Satellite Area Reclamation		Satellite No.1	Satellite No.2	Satellite No.3							
	Assumptions:											
	Area of Disturbance (acres)		1	1	1							
	Average Depth of Stripped Topsoil (ft)		1	0.67	0.67							
	Surface Grade: Level Ground											
	Average Length of Topsoil Haul (ft)		1000	500	500							
	A. Ripping Overburden with Dozer											
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$679.37	\$679.37	\$679.37							
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)		\$590.24	\$590.24	\$590.24							
	Subtotal Ripping Costs		\$590	\$590	\$590							
	B. Topsoil Application with Scraper											
	Volume of Topsoil Removed (cy)		1613	1081	1081							
	Application Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)		\$0.71	\$0.60	\$0.60							
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$0.62	\$0.52	\$0.52							
	Subtotal Topsoil Application Costs		\$995	\$563	\$563							
	C. Discing and Seeding											
	Discing/Seeding Unit Cost (\$/acre)		\$200	\$200	\$200							
	Subtotal Discing/Seeding Costs		\$200	\$200	\$200							
	Subtotal Surface Reclamation Costs per Satellite		\$1,785	\$1,353	\$1,353							
	Total Satellite Building Area Reclamation Costs		\$4,491									
	TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS		\$94,214									

MISC REC

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Miscellaneous Reclamation				
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.00	\$0.62	\$0.62
	Subtotal Gravel Road Base Removal Costs	\$0	\$2,533	\$844
C. Ripping Overburden with Dozer				
	Overburden Surface Area (acres)	0.0	10.9	3.6
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$663.93	\$663.93	\$663.93
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)	\$576.83	\$576.83	\$576.83
	Subtotal Ripping Overburden Costs	\$0	\$6,293	\$2,098
D. Topsoil Application				
	Assumptions			
	Average haul distance (ft)	0	5000	1500
	Topsoil Surface Area (ft ²)	0	475200	158400
	Depth of Topsoil (ft)	0	0.5	0.5
	Volume of Topsoil (cy)	0	8800	2933
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.00	\$1.50	\$0.82
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.00	\$1.30	\$0.71
	Subtotal Topsoil Application Costs	\$0	\$11,468	\$2,090
E. Discing/Seeding				
	Assumptions			
	Surface Area (acres)	7.6	10.9	3.6
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200
	Subtotal Discing/Seeding Costs	\$1,515	\$2,182	\$727
	Subtotal Reclamation Costs per Access Road	\$14,782	\$22,476	\$5,759
	Total Access Road Reclamation Costs	\$54,536		\$11,519
III. Wastewater Pipeline Reclamation				
		SAT2 to SAT1	SAT3 to SAT2	H-WF Rest.
		WW Pipeline	PSR	Bypass
A. Pipeline Removal and Loading				
	Length of HDPE Pipe Trench (ft)	24000	22000	2200
	Main Pipeline Removal Unit Cost (\$/ft of trench)	\$0.85	\$0.85	\$0.85
	Subtotal Pipeline Removal Costs	\$20,400	\$18,700	\$1,870
B. Pipeline Transportation and Disposal (NRC-Licensed Facility)				
	Pipe Diameter (inches)	3	4	3
	Chipped Volume Reduction (ft ³ /ft)	0.022	0.032	0.022
	Subtotal Volume of Shredded PVC Pipe (ft ³)	528	704	48.4
	Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$5.62	\$5.62
	Subtotal Pipeline Disposal Costs	\$2,967	\$3,956	\$272
C. Discing/Seeding				
	Assumptions:			
	Width of Pipeline Trench (ft)	10	10	8
	Area of Pipeline Trench (acres)	5.5	5.1	0.4
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200
	Subtotal Discing/Seeding Costs	\$1,102	\$1,010	\$81
	Subtotal Reclamation Costs per Pipeline	\$24,469	\$23,666	\$2,223
	Total Wastewater Pipeline Reclamation Costs	\$50,358		
IV. Radium Settling Basin Reclamation				
		E. Radium Pond	W. Radium Pond	
A. Soil Sampling and Monitoring				
	Number of Soil Samples	10	10	
	\$/Sample	\$60	\$60	
	Subtotal Soil Sampling and Monitoring Costs	\$600	\$600	
C. Grade and Contour				
	Volume of Embankment Material (CY)	6,400	6,400	
	Average Grade (%)	0	0	
	Distance (ft)	50	50	
	Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)	\$0.092	\$0.092	
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.08	\$0.08	
	Subtotal Grade and Contour Costs	\$512	\$512	
C. Topsoil Application				
	Assumptions:			
	Area of surface disturbance (ft ²)	37500	37500	
	Average thickness of topsoil (ft)	1	1	
	Average haul distance (ft)	2000	2000	
	Surface grade (%)	0%	0%	
	Volume of Topsoil (cy)	1,389	1,389	
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.92	\$0.92	
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.80	\$0.80	

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Miscellaneous Reclamation			
	Subtotal Topsoil Application Costs	\$1,110	\$1,110
D.	Discing/Seeding		
	Assumptions:		
	Area of surface disturbance (acres)	1	1
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$200	\$200
	Subtotal Reclamation Costs per Radium Pond	\$2,422	\$2,422
	Total Radium Settling Basin Reclamation Costs	\$4,843	
V.	Purge Storage Reservoir Reclamation	PSR-1	PSR-2
A.	Soil Sampling and Analysis Costs	\$3,000	\$3,000
B.	Leachate Collection System Removal Costs	\$5,000	\$0
C.	Topsoil/Subsoil Application		
	Assumptions:		
	Average haul distance (ft)	1000	150
	Surface grade (%)	0%	0%
	Volume of Topsoil/Subsoil (cy)	83000	74000
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No. 12, App.C (\$/cy)	\$0.71	\$0.71
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.62
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No. 12, App.E (\$/cy)	\$0.194	\$0.194
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.17	\$0.17
	Subtotal Topsoil/Subsoil Application Costs per Reservoir	\$65,189	\$58,120
D.	Discing/Seeding		
	Surface Area (acres)	6	32
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$1,200	\$6,400
	Subtotal Reclamation Costs per Reservoir	\$74,389	\$67,520
	Total Purge Storage Reservoir Reclamation Costs	\$141,909	
VI.	Irrigation Area Reclamation	Irrigator No. 1A	Irrigator No. 2
A.	Irrigation Equipment Removal Costs	\$2,000	\$2,000
B.	Plowing		
	Assumptions:		
	Plowing Unit Cost (\$/acre)	\$30	\$30
	Irrigation Area (acres)	55	116
	Number of Cultivations	2	2
	Subtotal Plowing Costs	\$3,300	\$6,960
C.	Discing/Seeding		
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$11,000	\$23,200
	Subtotal Reclamation Costs per Irrigation Area	\$16,300	\$32,160
	Total Irrigation Area Reclamation Costs	\$48,460	
VII.	Drilling Fluid Storage Cell Reclamation		
	Assumptions:		
	Each cell is 100 ft (width) by 100 ft (length) by 10 ft (depth)		
	Volume of each cell, discounting side slopes (cy)	3704	
	Surface area disturbance associated with each cell (acres)	1	
	Average haul distance (ft)	500	
	Surface grade (%)	0	
A.	Topsoil/Subsoil Application		
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No. 12, App.C (\$/cy)	\$0.60	
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.52	
	Topsoil/Subsoil Application Costs per Storage Cell	\$1,931	
B.	Discing/Seeding		
	Discing/Seeding Unit Cost (\$/acre)	\$200	
	Subtotal Discing/Seeding Costs	\$200	
	Subtotal Reclamation Costs per Storage Cell	\$2,131	
	Total Number of Storage Cells	5	
	Total Drilling Fluid Storage Cell Reclamation Costs	\$10,655	
VIII.	Revegetation of Exxon Reclaimed Lands		
	Assumptions:		
	Reseeding potential areas of erosion (\$/acre)	\$200	
	Surface Area (acres)	217	
	Total Exxon Reclaimed Lands Revegetation Costs	\$43,400	
IX.	Potential Mitigation Plan For Irrigator No.1A (Requested by WDEQ-LQD)		

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Miscellaneous Reclamation			
Assumptions:			
	Harvesting grass for 2 years will further reduce Se levels in vegetation.		
	Harvest grass for 2 years @ \$2000/year.		\$4,000
	Analyze Se in grass for 2 years @\$165/sample X 4 samples X 2 yrs.		\$1,320
	Analyze Se in soil for 2 years @\$174/sample X 28 samples X 2 yrs.		\$9,744
	Add 1 ft. of Se free water to 58 acre irrigation area @ cost of \$6000.		\$6,000
	If desired, plow, disk and reseed area with alfalfa @ cost of \$4400.		\$4,400
	Total Potential Mitigation Plan Costs- Call	\$30,000	\$30,000
X. Potential Mitigation Plan For Irrigator No.2 (Requested by WDEQ-LQD)			
Assumptions:			
	Harvesting grass for 2 years will further reduce Se levels in vegetation.		
	Harvest grass for 2 years @ \$4000/year.		\$8,000
	Analyze Se in grass for 2 years @\$165/sample X 4 samples X 2 yrs.		\$1,320
	Analyze Se in soil for 2 years @\$174/sample X 32 samples X 2 yrs.		\$11,136
	Add 1 ft. of Se free water to 116 acre irrigation area @ cost of \$12000.		\$12,000
	If desired, plow, disk and reseed area with alfalfa @ cost of \$8800.		\$8,800
	Total Potential Mitigation Plan Costs- Call	\$42,000	\$42,000
XI. Potential Mitigation Plan for Shallow Well Casing Leak Investigation			
Assumptions:			
	Investigation and potential mitigation plan as of June 2002.		
	Assume cost of \$250,000.		
	Total Preliminary Cost		\$250,000
TOTAL MISCELLANEOUS RECLAMATION COSTS			\$695,734

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RADIUM TREATMENT	
Assumptions:	
1.	Based on actual 1998 operating costs from Satellite No. 2
Radium Treatment Costs per 1000 Gallons	
Chemical	= \$ 0.177
Filtration	= \$ 0.021
Electricity	= \$ 0.019
By Product Disposal of Sludge	= \$ 0.097
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS	= \$ 0.31

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GROUNDWATER SWEEP (GWS)									
Assumptions:									
1. All pumps are 5 hp pumping at 5.0 gpm									
2. Cost of electricity = \$0.03/kwh									
3. All water pumped is treated for radium removal at actual cost of \$0.31/1000 gallons									
4. All water pumped is disposed at irrigation facility with a 20 hp pump									
5. Repair and maintenance costs estimated at \$0.03/1000 gallons									
6. Process sampling and analysis costs estimated at \$0.03/1000 gallons									
7. Labor costs are not included									
Wellfield Pumping Costs per 1000 Gallons									
$\frac{1000 \text{ gal}}{5 \text{ gpm}} \times \frac{5 \text{ hp}}{5 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.03}{\text{kwh}} = \$ 0.373$									
Radium Treatment Costs per 1000 Gallons									
$= \$ 0.31$									
Pumping to Irrigator Costs per 1000 Gallons									
$\frac{1000 \text{ gal}}{400 \text{ gpm}} \times \frac{20 \text{ hp}}{400 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.03}{\text{kwh}} = \$ 0.019$									
Repair and Maintenance Costs per 1000 Gallons									
$= \$ 0.03$									
Process Sampling and Analysis Costs per 1000 Gallons									
$= \$ 0.03$									
TOTAL GWS COSTS PER 1000 GALLONS									
$= \$ 0.77$									

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REVERSE OSMOSIS (RO)									
Assumptions:									
1.	Based on actual 1998 operating costs at Satellite No. 1. Verified by Hydranautics RO System Design Software, Version 6.0 (1995)								
2.	Cost of electricity = \$0.03/kwh								
3.	80% permeate/20% reject split								
4.	Membrane life of 4 years with a cost of \$695 per membrane element								
5.	Includes cost of pumping from wellfield to RO Unit								
6.	The 20% reject is treated for radium removal prior to irrigation at actual cost of \$0.31/1000 gallons								
7.	The 20% reject is disposed at irrigation facility with a 20 hp pump at actual cost of \$0.019/1000 gallons								
8.	The permeate is returned to the wellfield with a 20 hp pump at actual cost of \$0.019/1000 gallons								
9.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
10.	Labor costs are not included								
Reverse Osmosis Costs per 1000 Gallons									
Electricity								= \$	0.17
Chemicals								= \$	0.26
Membrane Replacement								= \$	0.15
Repair and Maintenance								= \$	0.26
Pumping from Wellfield								= \$	0.37
Pumping to Wellfield								= \$	0.019
Radium Treatment									
	\$0.31	X	0.2					= \$	0.0628
Pumping to Irrigator									
	\$0.019	X	0.2					= \$	0.004
Process Sampling and Analysis								= \$	0.03
TOTAL RO COSTS PER 1000 GALLONS									
								= \$	1.33

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CHEMICAL REDUCTANT												
Assumptions:												
1. Bioremediation is utilized												
2. Based on actual 2003-2004 operating costs during restoration activities												
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal												
												= \$ 0.33
												July 1998 Dollars
												= \$ 0.29

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ELUTION PROCESSING									
Assumptions:									
1.	Based on actual operating costs								
TOTAL PROCESSING COSTS PER ELUTION = \$ 525									

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DEEP WELL INJECTION									
Assumptions:									
1.	Pump 75 hp pumping at 45 gpm								
2.	Cost of electricity = \$0.03/kwh								
3.	Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year								
4.	Repair and maintenance costs estimated at \$1.25/1000 gallons								
5.	Chemical costs based on average injection volume of 8,000,000 gallons per year								
6.	Labor costs are not included								
Waste Disposal Pumping Costs per 1000 Gallons									
	1000 gal	X	75 hp	X	1 hr	X	0.746 kwh	X	\$ 0.03
			45 gpm		60 min		hp		kwh
									= \$ 0.62
Repair and Maintenance Costs per 1000 Gallons									= \$ 1.25
Chemical Costs per 1000 Gallons									= \$ 2.73
	Scale Inhibitor								= \$ 1.20
	Corrosion Inhibitor								= \$ 1.16
	Oxygen Scavenger								= \$ 0.37
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS									= \$ 4.60

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WELL ABANDONMENT									
Assumptions:									
1. Use backhoe for 0.5 hr/well to dig and reclaim pit at cost of \$50/hr.									
2. Use hose reel/tow vehicle for 2 hr/well to pull hoses and pump plug gel at cost of \$35/hr.									
3. Use cementer/tow vehicle for 1 hr/well to pump plug gel at cost of \$45/hr.									
4. Labor for backhoe, hose reel, cementer will require 2 workers at 3.5 hr/well at cost of \$15/hr.									
5. Materials include one hole plug at \$1.75 and one sack of plug gel/100 ft of 5 inch well casing.									
Cost of plug gel is \$6.70/sack.									
Well Abandonment Costs									
Fixed Costs									
Backhoe									
	0.5	hours	X	\$ 50	per hour			= \$	25.00
Hose Reel/Tow Vehicle									
	2	hours	X	\$ 35	per hour			= \$	70.00
Cementer/Tow Vehicle									
	1	hours	X	\$ 45	per hour			= \$	45.00
Labor									
	7	man	X	\$ 15.00	per man			= \$	105.00
		hours			hour				
Materials									
	1	hole	X	\$ 1.75	per hole			= \$	1.75
		plug			plug				
				Total Fixed Costs				= \$	246.75
Variable Costs (per 100 ft of well depth)									
Materials									
	1	sack plug gel	X	\$ 6.70	per			= \$	6.70
		per 100 feet			sack				
Cost per Well per Unit of Average Depth									
				Well Depth (ft)					
				450				= \$	277
				500				= \$	280
				550				= \$	284
				600				= \$	287
				650				= \$	290

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
Assumptions:									
1. Based on 1999 PRI costs.									
2. Use Pulling Unit for 0.25 hr/well at cost of \$45/hr.									
3. Use MIT Unit for 1.5 hr/well at cost of \$20/hr.									
4. Labor for operation of pulling unit will require 2 workers at \$15/hr									
5. Labor for operation of MIT Unit will require 1 worker at \$15/hr									
MIT Costs per Well									
Equipment:									
Pulling Unit									
	0.25	hours	X	\$ 45	per hour			= \$	11.25
MIT Unit									
	1.5	hours	X	\$ 20	per hour			= \$	30.00
Labor:									
Pulling Unit									
	0.25	hours	X	\$ 15	per hour	X	2 workers	= \$	\$7.50
MIT Unit									
	1.5	hours	X	\$ 15	per hour			= \$	22.50
MIT COST PER WELL = \$ 71									

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MAIN PIPELINE REMOVAL									
Assumptions:									
1.	Trenching with trackhoe at 1500 ft/day								
2.	Pipeline extraction and backfilling with trackhoe at 1500 ft/day								
3.	Trackhoe rental: \$1600/week								
4.	Fuel cost: \$9/operating hour								
5.	Trackhoe operation requires 1 worker at \$15/hour								
6.	Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)								
7.	Pipelines removed simultaneously								
8.	Includes removal of manholes								
9.	Operating schedule: 8 hrs/day, 5 days/week								
Main Pipeline Removal Costs per ft of Trench									
Equipment									
Trackhoe									
	\$ 1600	X	1 week	X	2 days	=\$ 0.43			
	week		5 days		1500 ft				
Fuel									
	\$ 9	X	8 hrs	X	2 days	=\$ 0.10			
	hour		1 day		1500 ft				
Labor									
Trackhoe Operation									
	\$ 15	X	8 man hrs	X	2 days	=\$ 0.16			
	man hr		1 day		1500 ft				
Pipeline Extraction									
	\$ 15	X	16 man hrs	X	1 day	=\$ 0.16			
	man hr		1 day		1500 ft				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH =\$ 0.85									

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WELLFIELD PIPING REMOVAL					
Assumptions:					
1.	Trenching with backhoe at 3000 ft/day				
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day				
3.	Backhoe rental: \$750/week				
4.	Fuel cost: \$9/operating hour				
5.	Backhoe operation requires 1 worker at \$15/hour				
6.	Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)				
7.	Operating schedule: 8 hrs/day, 5 days/week				
Main Pipeline Removal Costs per ft of Pipe					
Equipment					
Backhoe					
	\$ 750	X	1 week	X	2 days
	week		5 days		3000 ft
					=\$ 0.10
Fuel					
	\$ 9	X	8 hrs	X	2 days
	hour		1 day		3000 ft
					=\$ 0.05
Labor					
Backhoe Operation					
	\$ 15	X	8 man hrs	X	2 days
	man hr		1 day		3000 ft
					=\$ 0.08
Pipeline Extraction					
	\$ 15	X	16 man hrs	X	1 day
	man hr		1 day		3000 ft
					=\$ 0.08
MAIN PIPELINE REMOVAL COST PER FT OF PIPE =\$ 0.31					

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WELLFIELD ROAD RECLAMATION

Assumptions (Roads constructed before January 1, 1997):

1. Gravel road base removed at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
2. Gravel road base: average depth = 0.25 ft, average width = 10 ft
3. Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)
4. Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)
5. Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
6. Stripped topsoil: average depth = 0.67 ft, average width = 25 ft
7. Discing/seeding cost of \$200/acre is based on actual contractor costs

Gravel Road Base Removal Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{0.25 \text{ ft}}{27 \text{ ft}^3} \times \frac{10 \text{ ft}}{1 \text{ acre}} \times \frac{1 \text{ cy}}{27 \text{ ft}^3} \times \frac{\$0.60}{\text{cy}} = \$ 56$$

Scarification Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{25 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$36.30}{\text{acre}} = \$ 21$$

Grading Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{25 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$38.45}{\text{acre}} = \$ 22$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{0.67 \text{ ft}}{27 \text{ ft}^3} \times \frac{25 \text{ ft}}{1 \text{ acre}} \times \frac{1 \text{ cy}}{27 \text{ ft}^3} \times \frac{\$0.60}{\text{cy}} = \$ 372$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{25 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$200}{\text{acre}} = \$ 115$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER

$$1000 \text{ FT OF ROAD (BEFORE JANUARY 1, 1997)} = \$ 586$$

Assumptions (Roads constructed after January 1, 1997):

1. Gravel road base will not be removed
2. Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)
3. Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)
4. Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
5. Stripped topsoil: average depth = 0.4 ft, average width = 20 ft
6. Discing/seeding cost of \$200/acre is based on actual contractor costs

Scarification Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{20 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$36.30}{\text{acre}} = \$ 17$$

Grading Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{20 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$38.45}{\text{acre}} = \$ 18$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{0.40 \text{ ft}}{27 \text{ ft}^3} \times \frac{20 \text{ ft}}{1 \text{ acre}} \times \frac{1 \text{ cy}}{27 \text{ ft}^3} \times \frac{\$0.60}{\text{cy}} = \$ 178$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000 \text{ ft}}{1000 \text{ ft}} \times \frac{20 \text{ ft}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{1 \text{ acre}}{4.356 \text{E}+04 \text{ ft}^2} \times \frac{\$200}{\text{acre}} = \$ 92$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER

$$1000 \text{ FT OF ROAD (AFTER JANUARY 1, 1997)} = \$ 305$$

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BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL									
Assumptions:									
1.	Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.								
2.	Includes profit for transporter and disposal facility.								
3.	All types of waste shipped vi bulk container (30-yd ³ dumpster or 30-yd ³ dump truck).								
4.	Each shipment contains 30,000 lbs of material.								
	Transportation Cost				Disposal Cost			Total	
	\$ 66.67	/yd ³	+		\$ 85.00	/yd ³	=	\$ 151.67	/yd ³
							=	\$ 5.62	/ft ³

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DISKING/SEEDING									
Assumptions:									
1. Based on actual contractor costs									
TOTAL DISKING/SEEDING COSTS PER ACRE = \$ 200									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT
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Abbreviations/Acronyms					
\$	Dollars				
\$/Kgal	Dollars per 1000 gallons				
avg	average				
ft	feet				
ft ²	square feet				
ft ³	cubic feet				
gal	gallon				
gpm	gallons per minute				
H&S	Health and Safety				
H ₂ S	Hydrogen Sulfide				
H ₂ SO ₄	Sulfuric Acid				
HCl	Hydrochloric Acid				
Hp	Horsepower				
Kgal	1000 gallons				
Kwh	Kilowatt-hours				
NaOH	Caustic Soda				
OD	Outside Diameter				
PPE	personal protective equipment				
PV	Pore Volume Estimate				
reqm't	requirement				
RO	Reverse Osmosis				
WDW	Waste Disposal Well				
yd ³	cubic yards				
yr	year				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	\$11,077,405
II.	EQUIPMENT REMOVAL & DISPOSAL COST	\$291,997
III.	BUILDING DEMOLITION AND DISPOSAL COST	\$1,109,586
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	\$337,081
V.	WELL ABANDONMENT COST	\$1,102,011
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST	\$64,526
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	\$429,941
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	\$14,412,546
	CPI ESCALATOR- July 1,1998 to May 31, 2006 (24.08%)	\$3,470,541
	SUBTOTAL	\$17,883,087
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	\$4,470,772
	TOTAL	\$22,353,859
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)	\$22,353,900

**POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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Ground Water Restoration				Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15	Mine Unit-15A	Mine Unit K	Mine Unit 9
PV Assumptions														
Wellfield Area (ft2)				1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Wellfield Area (acres)				25.6	51.9	37.2	18.0	30.6	24.1	7.8	45.9	36.7	37.2	27.5
Affected Ore Zone Area (ft2)				1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Avg. Completed Thickness				18	24	20	14	18	17	18	19	19	20	20
Porosity				0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Flare Factor				1.7	1.5	1.5	1.5	1.5	1.5	1.7	1.5	1.5	1.7	1.7
Affected Volume (ft3)				34,126,007	81,366,192	48,673,860	16,438,800	36,039,546	26,789,688	10,416,883	57,000,000	45,600,000	55,080,000	40,800,000
Kgallons per Pore Volume				68,921	164,327	98,302	33,200	72,785	54,104	21,038	115,117	92,094	111,240	82,400
Number of Patterns in Unit(s)														
Current				116	146	162	76	128	101	35	251	0	0	0
Estimated next report period				0	0	0	0	0	0	0	0	60	100	54
Total Estimated				116	146	162	76	128	101	35	251	60	100	54
Number of Wells in Unit(s)														
Production Wells														
Current				115	146	145	Wells included under Wellfield 3	124	101	Wells	251	0	0	0
Estimated next report period				0	0	0		0	0	included	0	60	100	54
Total Estimated				115	146	145		124	101	under	251	60	100	54
Injection Wells										Wellfield 4 and Wellfield 4A				
Current				210	262	251		219	175		502	0	0	0
Estimated next report period				0	0	0		0	0		0	120	200	107
Total Estimated				210	262	251		219	175		502	120	200	107
Monitoring Wells														
Current				49	50	40		51	39		105	60	61	0
Estimated next report period				0	0	0		0	0		0	0	0	80
Total Estimated				49	50	40		51	39		105	60	61	80
Number of Wells per Wellfield				374	458	436		394	315		858	240	361	241
Total Number of Wells				2835										
Average Well Depth (ft)				500	850	750		850	750		450	500	950	950
I. Ground Water Sweep Costs														
PVs Required				1	1	1	1	1	1	1	1	1	1	1
Total Kgals for Treatment				68,921	164,327	98,302	33,200	72,785	54,104	21,038	115,117	92,094	111,240	82,400
Ground Water Sweep Unit Cost (\$/Kgal)				\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57	\$0.57
Subtotal Ground Water Sweep Costs per Wellfield				\$39,483	\$94,139	\$56,315	\$19,019	\$41,697	\$30,995	\$12,052	\$65,948	\$52,758	\$63,726	\$47,205
Total Ground Water Sweep Costs				\$523,337										
II. Reverse Osmosis Costs														
PVs Required				5	5	5	5	5	5	5	5	5	5	6
Total Kgals for Treatment				344,604	821,636	491,509	165,999	363,927	270,522	105,190	575,586	460,469	556,198	494,398
Reverse Osmosis Unit Cost (\$/Kgal)				\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26	\$1.26
Subtotal Reverse Osmosis Costs per Wellfield				\$434,822	\$1,036,740	\$620,186	\$209,458	\$459,204	\$341,345	\$132,728	\$726,274	\$581,020	\$701,810	\$623,831
Total Reverse Osmosis Costs				\$5,867,418										
III. Chemical Reductant Costs														
Total Kgals for Treatment (2 Pore Volumes)				137842	328654	196603	66400	145571	108209	42076	230234	184188	222479	164799

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Ground Water Restoration		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit- 4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15	Mine Unit-15A	Mine Unit K	Mine Unit 9
Chemical Reductant Unit Cost (\$/Kgal)		\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29
Subtotal Chemical Reductant Costs per Wellfield		\$39,974	\$95,310	\$57,015	\$19,256	\$42,216	\$31,381	\$12,202	\$66,768	\$53,414	\$64,519	\$47,792
Total Chemical Reductant Costs		\$529,847										
IV. Elution Costs												
A. Elution Processing Costs												
Kgals/Elution Required		35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
Number of Elutions		12	28	17	6	12	9	4	20	16	19	16
Processing Unit Cost (\$/Elution)		\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525
Subtotal Processing Costs		\$6,300	\$14,700	\$8,925	\$3,150	\$6,300	\$4,725	\$2,100	\$10,500	\$8,400	\$9,975	\$8,400
B. Deep Well Injection Costs												
Deep Well Injection Volume (Kgals/Elution)		12	12	12	12	12	12	12	12	12	12	12
Total Kgals for Injection		144	336	204	72	144	108	48	240	192	228	192
Deep Well Injection Unit Cost (\$/Kgals)		\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39
Subtotal Deep Well Injection Costs		\$200	\$467	\$284	\$100	\$200	\$150	\$67	\$334	\$267	\$317	\$267
Subtotal Elution Costs per Wellfield		\$6,500	\$15,167	\$9,209	\$3,250	\$6,500	\$4,875	\$2,167	\$10,834	\$8,667	\$10,292	\$8,667
Total Elution Costs		\$86,128										
V. Monitoring and Sampling Costs												
A. Active Restoration Period												
Estimated Restoration Period (Years)		5	5	5		5	5		5	5	5	5
1. UCL Sampling												
# of Wells		49	51	43		55	36		108	60	61	80
\$/sample		\$20	\$20	\$20		\$20	\$20		\$20	\$20	\$20	\$20
Samples/Year		6	6	6		6	6		6	6	6	6
Sub-total Restoration Analyses		\$29,400	\$30,600	\$25,800		\$33,000	\$21,600		\$64,800	\$36,000	\$36,600	\$48,000
B. Stability Period												
Estimated Stabilization Period (Years)		1	1	1		1	1		1	1	1	1
1. Full Suite Analyses												
# of Wells		17	31	24		20	10		61	34	34	56
Samples/Year		3	3	3		3	3		3	3	3	3
\$/sample		\$150	\$150	\$150		\$150	\$150		\$150	\$150	\$150	\$150
2. Short List Analyses												
# of Wells		17	31	24		20	10		61	34	34	56
Samples/Year		9	9	9		9	9		9	9	9	9
\$/sample		\$34	\$34	\$34		\$34	\$34		\$34	\$34	\$34	\$34
Sub-total Stability Analyses		\$12,852	\$23,436	\$18,144		\$15,120	\$7,560		\$46,116	\$25,704	\$25,704	\$42,336
Subtotal Monitoring and Sampling Costs per Wellfield		\$42,252	\$54,036	\$43,944		\$48,120	\$29,160		\$110,916	\$61,704	\$62,304	\$90,336
Total Monitoring and Sampling Costs		\$542,772										
VI. Mechanical Integrity Test (MIT) Costs												
Five Year MIT Unit Cost (\$/well)		\$71	\$71	\$71		\$71	\$71		\$71	\$71	\$71	\$71
Number of Wells (30% of Inj. and Rest. Wells)		63	79	75		66	53		151	36	60	32
Subtotal Mechanical Integrity Testing Costs per Wellfield		\$4,473	\$5,581	\$5,346		\$4,665	\$3,728		\$10,693	\$2,556	\$4,260	\$2,279
Total Mechanical Integrity Testing Cost		\$43,581										
TOTAL RESTORATION COSTS PER WELLFIELD		\$567,504	\$1,300,973	\$792,015	\$250,983	\$602,402	\$441,484	\$159,149	\$991,433	\$760,119	\$906,911	\$820,110
TOTAL WELLFIELD RESTORATION COST		\$7,593,083										

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Ground Water Restoration		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd	Mine Unit-4	Mine Unit-4A	Mine Unit-4	Mine Unit-15	Mine Unit-15A	Mine Unit K	Mine Unit 9
VII. Building Utility Costs		Central Plant	Main Office	Satellite SR-1	Satellite SR-2							
	Electricity (\$/Month)	\$8,500	\$1,825	\$8,500	\$8,500							
	Natural Gas (\$/Month)	\$2,500	\$595	\$765	\$765							
	Number of Months	48	60	36	36							
	Subtotal Utility Costs per Building	\$528,000	\$145,200	\$333,540	\$333,540							
	Total Building Utility Costs	\$1,340,280										
XI. Vehicle Operation Costs												
	Number of Pickup Trucks/Pulling Units (Gas)	10										
	Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)	\$10.13										
	Unit Cost in \$/hr (July 1998 dollars w/o escalator)	\$8.80										
	Average Operating Time (Hrs/Year)	1000										
	Total Number of Years (Average)	4										
	Total Vehicle Operation Costs	\$352,042										
XII. Labor Costs												
	Number of Environmental Managers/RSOs	1										
	\$/Year	\$60,000										
	Number of Restoration Managers	1										
	\$/Year	\$50,000										
	Number of Environmental Technicians	2										
	\$/Year	\$28,000										
	Number of Operators/Laborers	7										
	\$/Year	\$28,000										
	Number of Maintenance Technicians	2										
	\$/Year	\$28,000										
	Number of Years	4										
	Total Labor Costs	\$1,672,000										
XIII. Capital Costs												
	Purchase RO Units (2X800 gpm Units)	\$120,000										
	Total Labor Costs	\$120,000										
TOTAL GROUND WATER RESTORATION COSTS		\$11,077,405										

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Equipment Removal and Loading			CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
Removal and Loading Costs										
A.	Tankage									
	Number of Tanks		13	51	0	10	15	3	30	10
	Volume of Tank Construction Material (ft ³)		835	1340	300	397	260	164	1648	397
	1. Labor									
	Number of Persons		3	3	3	3	3	3	3	3
	Ft ³ /Day		25	25	25	25	25	25	25	25
	Number of Days		33	54	12	16	10	7	66	16
	\$/Day/Person		\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
	Subtotal Labor Costs		\$11,228	\$18,010	\$4,032	\$5,376	\$3,494	\$2,204	\$22,149	\$5,376
	2. Equipment									
	Number of Days		33	54	12	16	10	7	66	16
	\$/Day		\$338	\$338	\$338	\$338	\$338	\$338	\$338	\$338
	Subtotal Equipment Costs		\$11,295	\$18,117	\$4,056	\$5,408	\$3,515	\$2,217	\$22,281	\$5,408
	Subtotal Tankage Removal and Loading Costs		\$22,523	\$36,127	\$8,088	\$10,784	\$7,009	\$4,421	\$44,430	\$10,784
B.	PVC/Steel Pipe									
	PVC Pipe Footage		2800	5000		4000	1500	0	0	4000
	Average PVC Pipe Diameter (inches)		3	3	3	3	3	3	0	3
	Shredded PVC Pipe Volume Reduction (ft ³ /ft)		0.016	0.016	0.016	0.016	0.016	0.016	0	0.016
	Volume of Shredded PVC Pipe (ft ³)		45	80	0	64	24	0	0	64
	Steel Pipe Footage		1100	0	0	0	0	80	0	0
	Average Steel Pipe Diameter (inches)		6	0	0	0	0	8	0	0
	Volume (ft ³)		216	0	0	0	0	30	0	0
	1. Labor									
	Number of Persons		2	2	2	2	2	2	2	2
	Ft ³ /Day		200	200	200	200	200	200	200	200
	Number of Days		19.5	25	0	20	7.5	0.4	0	20
	\$/Day/Person		\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
	Subtotal PVC/Steel Pipe Labor Costs		\$4,368	\$5,600	\$0	\$4,480	\$1,680	\$90	\$0	\$4,480
	Subtotal PVC/Steel Pipe Removal and Loading Costs		\$4,368	\$5,600	\$0	\$4,480	\$1,680	\$90	\$0	\$4,480
C.	Pumps									
	Number of Pumps		21	43	0	13	12	2	0	13
	Average Volume (ft ³ /pump)		4.93	4.93	0	4.93	4.93	4.93	4.93	4.93
	Volume of Pumps (ft ³)		103.53	211.99	0	64.09	59.16	9.86	0	64.09
	1. Labor									
	Number of Persons		1	1	1	1	1	1	0	1
	Pumps/Day		2	2	2	2	2	2	0	2
	Number of Days		10.5	21.5	0	7	6	1	0	7
	\$/Day/Person		\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112

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Equipment Removal and Loading				CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pump House	Bone Yard	Satellite SR-2
Subtotal Labor Costs				\$1,176	\$2,408	\$0	\$784	\$672	\$112	\$0	\$784
Subtotal Pump Removal and Loading Costs				\$1,176	\$2,408	\$0	\$784	\$672	\$112	\$0	\$784
D.	Dryer										
	Dryer Volume (ft³)					200					
	1. Labor										
	Number of Persons			0	0	5	0	0	0	0	0
	Ft³/Day			0	0	175	0	0	0	0	0
	Number of Days			0	0	2	0	0	0	0	0
	\$/Day/Person			\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
	Total Labor Cost			\$0	\$0	\$1,120	\$0	\$0	\$0	\$0	\$0
	Total Dryer Dismantling and Loading Cost			\$0	\$0	\$1,120	\$0	\$0	\$0	\$0	\$0
Subtotal Equipment Removal and Loading Costs per Facility				\$39,295	\$62,145	\$13,240	\$21,424	\$12,855	\$6,827	\$66,579	\$21,424
Total Equipment Removal and Loading Costs				\$243,789							
Transportation and Disposal Costs (NRC-Licensed Facility)											
A.	Tankage										
	Volume of Tank Construction Material (ft³)			835	1340	300	397	260	164	1648	
	Volume for Disposal Assuming 10% Void Space (ft³)			919	1474	330	436	286	180	1813	
	Transportation and Disposal Unit Cost (\$/ft³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Tankage Transportation and Disposal Costs			\$5,165	\$8,284	\$1,855	\$2,450	\$1,607	\$1,012	\$10,189	\$0
B.	PVC / Steel Pipe										
	Volume of Shredded PVC Pipe (ft³)			44.8	80	0	64	24	0	0	
	Volume for Disposal Assuming 10% Void Space (ft³)			49	88	0	70	26	0	0	
	Volume of Steel Pipe (ft³)			296	0	0	0	0	30	30	
	Volume for Disposal Assuming 10% Void Space (ft³)			326	0	0	0	0	33	33	
	Transportation and Disposal Unit Cost (\$/ft³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal PVC Pipe Transportation and Disposal Costs			\$2,108	\$495	\$0	\$393	\$146	\$185	\$185	\$0
C.	Pumps										
	Volume of Pumps (ft³)			103.53	271	0	64	59	9.86	0	
	Volume for Disposal Assuming 10% Void Space (ft³)			114	298	0	70	65	11	0	
	Transportation and Disposal Unit Cost (\$/ft³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Pump Transportation and Disposal Costs			\$641	\$1,675	\$0	\$393	\$365	\$62	\$0	\$0
D.	Dryer										
	Dryer Volume (ft³)			0	0	400	0	0	0	0	0
	Volume for Disposal Assuming Dryer Remains Intact (ft³)			0	0	400	0	0	0	0	0
	Transportation and Disposal Unit Cost (\$/ft³)			\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Total Dryer Transportation and Disposal Costs			\$0	\$0	\$2,248	\$0	\$0	\$0	\$0	\$0
Subtotal Equipment Transportation and Disposal Costs per Facility				\$7,914	\$10,454	\$4,103	\$3,236	\$2,118	\$1,259	\$10,374	\$0
Total Equipment Transportation and Disposal Costs				\$39,458							
Health and Safety Costs											

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Equipment Removal and Loading				CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
Radiation Safety Equipment				\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	0	\$1,250	\$1,250
Total Health and Safety Costs				\$8,750							
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				\$48,459	\$73,849	\$18,593	\$25,910	\$16,223	\$8,086	\$78,203	\$22,674
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$291,997							

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Building Demolition and Disposal			CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Office Annex	Storage Building	Water Treat Plant	Shop Building	Pilot ISL Building	Fresh Water Pumphouse	DDW Buildings
I. Decontamination Costs													
A. Wall Decontamination													
	Area to be Decontaminated (ft ²)		10,810	15,900	0	0	9,934	1,152	576	4,826	12,000	0	0
	Application Rate (Gallons/ft ²)		1	1	1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs		\$5,405	\$7,950	\$0	\$0	\$4,967	\$576	\$288	\$2,413	\$6,000	\$0	\$0
B. Concrete Floor Decontamination													
	Area to be Decontaminated (ft ²)		11,550	16,500	3,500	0	14,468	1,678	839	7,028	17,477	0	0
	Application Rate (Gallons/ft ²)		4	4	4	0	4	4	4	4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs		\$23,100	\$33,000	\$7,000	\$0	\$28,936	\$3,356	\$1,678	\$14,056	\$34,954	\$0	\$0
C. Deep Well Injection Costs													
	Total Kgals for Injection		\$7.01	\$1.9	\$14	\$0	\$67,806	\$7,864	\$3,932	\$32,938	\$81,908	\$0	\$0
	Deep Well Injection Unit Cost (\$/Kgals)		\$4.12	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39
	Subtotal Deep Well Injection Costs		\$235	\$114	\$19	\$0	\$94	\$11	\$5	\$46	\$114	\$0	\$0
	Subtotal Decontamination Costs per Building		\$28,740	\$41,064	\$7,019	\$0	\$33,997	\$3,943	\$1,971	\$16,515	\$41,068	\$0	\$0
	Total Decontamination Costs		\$199,598										
II. Demolition Costs													
A. Building													
	Assumptions:												
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment												
	Volume of Building (ft ³)		346,500	577,500	122,500	0	361,700	16,780	8,390	175,700	314,586	8,320	660.3
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs		\$51,478	\$85,797	\$18,199	\$0	\$53,736	\$2,493	\$1,246	\$26,103	\$46,737	\$1,236	\$98
B. Concrete Floor													
	Area of Concrete Floor (ft ²)		11,550	16,500	3,500	0	14,468	1,678	839	7,028	17,477	832	0
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)		\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)		\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs		\$31,810	\$45,443	\$9,639	\$0	\$39,847	\$4,621	\$2,311	\$19,356	\$48,134	\$2,291	\$0
C. Concrete Footing													
	Length of Concrete Footing (ft)		430	514	237	0	481	164	116	335	529	115	0
	Demolition Unit Cost per WDEQ Guide. No.12, App.K (\$/lin. ft)		\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)		\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs		\$4,276	\$5,111	\$2,354	\$0	\$4,786	\$1,630	\$1,153	\$3,336	\$5,260	\$1,144	\$0
	Subtotal Demolition Costs per Building		\$87,564	\$136,351	\$30,192	\$0	\$98,369	\$8,744	\$4,710	\$48,795	\$100,131	\$4,671	\$98
	Total Demolition Costs		\$736,551										
III. Disposal Costs													
A. Building													
	Volume of Building (cy)		12833	21389	4537	0	13396	621	311	6507	11651	308	24
1. On-Site													
	Assumptions:												
	On-site disposal cost of \$0.54/cy												
	Percentage (%)		100	100	100	100	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)		12833	21389	4537	0	13396	621	311	6507	11651	308	24
	Disposal Unit Cost (\$/cy)		\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54
	Subtotal On-Site Disposal Costs		\$6,930	\$11,550	\$2,450	\$0	\$7,234	\$336	\$168	\$3,514	\$6,292	\$166	\$13

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			CPP Ion Ex.	Central	Dryer	Office	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water	DDW
Building Demolition and Disposal			Plant	Plant	Building	Building	Annex	Building	Plant	Building	Building	Pumphouse	Buildings
2.	NRC-Licensed Facility												
	Percentage (%)		0	0	0	0	0	0	0	0	0	0	0
	Volume for Disposal (ft ³)		0	0	0	0	0	0	0	0	0	0	0
	Volume for Disposal Assuming 10% Void Space (ft ³)		0	0	0	0	0	0	0	0	0	0	0
	Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Building Disposal Costs		\$6,930	\$11,550	\$2,450	\$0	\$7,234	\$336	\$168	\$3,514	\$6,292	\$166	\$13
B.	Concrete Floor												
	Area of Concrete Floor (ft ²)		11550	16500	3500	0	14468	1678	839	7028	17477	1186	0
	Average Thickness of Concrete Floor (ft)		0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
	Volume of Concrete Floor (ft ³)		8662.5	12375	2625	0	10851	1258.5	629.25	5271	13107.75	889.5	0
	Volume of Concrete Floor (cy)		321	458	97	0	402	47	23	195	485	33	0
1.	On-Site												
	Percentage (%)		75	75	75	100	100	100	100	100	75	100	0
	Volume for Disposal (cy)		241	344	73	0	402	47	23	195	364	33	0
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal On-Site Disposal Costs		\$980	\$1,401	\$297	\$0	\$1,638	\$190	\$95	\$795	\$1,484	\$134	\$0
2.	NRC-Licensed Facility												
	Assumptions:												
	Additional \$2.00/ft ³ for segregation of concrete												
	Percentage (%)		25	25	25	0	0	0	0	0	25	0	0
	Volume for Disposal (ft ³)		2888	3094	656	0	0	0	0	0	3277	0	0
	Segregation and Loading Unit Cost (\$/ft ³)		\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
	Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$22,007	\$23,574	\$5,001	\$0	\$0	\$0	\$0	\$0	\$24,970	\$0	\$0
	Subtotal Concrete Floor Disposal Costs		\$22,987	\$24,975	\$5,298	\$0	\$1,638	\$190	\$95	\$795	\$26,454	\$134	\$0
C.	Concrete Footing												
	Length of Concrete Footing (ft)		430	514	237	0	481	164	116	335	529	124	0
	Average Depth of Concrete Footing (ft)		4	4	4	4	4	4	4	4	4	4	4
	Average Width of Concrete Footing (ft)		1	1	1	1	1	1	1	1	1	1	1
	Volume of Concrete Footing (ft ³)		1720	2055	947	0	1925	655	463	1341	2115	496	0
	Volume of Concrete Footing (cy)		64	76	35	0	71	24	17	50	78	18	0
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal Concrete Footing Disposal Costs		\$260	\$310	\$143	\$0	\$290	\$99	\$70	\$202	\$319	\$75	\$0
	Subtotal Disposal Costs per Building		\$30,177	\$36,835	\$7,891	\$0	\$9,162	\$625	\$333	\$4,511	\$33,065	\$375	\$13
	Total Disposal Costs		\$166,437										
III.	Health and Safety Costs												
	Radiation Safety Equipment		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0
	Total Health and Safety Costs		\$7,000										
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$147,481	\$215,250	\$46,102	\$1,000	\$142,528	\$13,312	\$7,014	\$69,821	\$174,264	\$5,046	\$111
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$1,109,586										

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Building Demolition and Disposal			Satellite SR-1	Yellowcake Warehouse	Satellite SR-2
I. Decontamination Costs					
A. Wall Decontamination					
	Area to be Decontaminated (ft ²)		0	3100	
	Application Rate (Gallons/ft ²)		1	1	
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs		\$0	\$1,550	\$0
B. Concrete Floor Decontamination					
	Area to be Decontaminated (ft ²)		9000	2750	0
	Application Rate (Gallons/ft ²)		4	4	4
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs		\$18,000	\$5,500	\$0
C. Deep Well Injection Costs					
	Total Kgals for Injection		36	14.1	0
	Deep Well Injection Unit Cost (\$/Kgals)		\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs		\$166	\$65	\$0
	Subtotal Decontamination Costs per Building		\$18,166	\$7,115	\$0
Total Decontamination Costs					
II. Demolition Costs					
A. Building					
	Assumptions:				
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment				
	Volume of Building (ft ³)		402,000	55,000	402,000
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs		\$59,724	\$8,171	\$59,724
B. Concrete Floor					
	Area of Concrete Floor (ft ²)		13400	2750	13400
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)		\$3.05	\$3.05	\$3.05
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)		\$2.65	\$2.65	\$2.65
	Subtotal Concrete Floor Demolition Costs		\$35,508	\$7,287	\$35,508
C. Concrete Footing					
	Length of Concrete Footing (ft)		463	210	463
	Demolition Unit Cost per WDEQ Guide. No.12, App.K (\$/lin. ft)		\$11.15	\$11.15	\$11.15
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)		\$9.69	\$9.69	\$9.69
	Subtotal Concrete Footing Demolition Costs		\$4,486	\$2,032	\$4,486
	Subtotal Demolition Costs per Building		\$99,718	\$17,490	\$99,718
Total Demolition Costs					
III. Disposal Costs					
A. Building					
	Volume of Building (cy)		14889	2037	14889
1. On-Site					
	Assumptions:				
	On-site disposal cost of \$0.54/cy				
	Percentage (%)		100	100	100
	Volume for Disposal (cubic yards)		14889	2037	14889
	Disposal Unit Cost (\$/cy)		\$0.54	\$0.54	\$0.54
	Subtotal On-Site Disposal Costs		\$8,040	\$1,100	\$8,040

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Building Demolition and Disposal			Satellite SR-1	Yellowcake Warehouse	Satellite SR-2
2. NRC-Licensed Facility					
Percentage (%)			0	0	0
Volume for Disposal (ft ³)			0	0	0
Volume for Disposal Assuming 10% Void Space (ft ³)			0	0	0
Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62
Subtotal NRC-Licensed Facility Disposal Costs			\$0	\$0	\$0
Subtotal Building Disposal Costs			\$8,040	\$1,100	\$8,040
B. Concrete Floor					
Area of Concrete Floor (ft ²)			13400	2750	13400
Average Thickness of Concrete Floor (ft)			0.75	0.75	0.75
Volume of Concrete Floor (ft ³)			10050	2062.5	10050
Volume of Concrete Floor (cy)			372	76	372
1. On-Site					
Percentage (%)			75	75	75
Volume for Disposal (cy)			279	57	279
Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)			\$4.69	\$4.69	\$4.69
Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$4.07	\$4.07	\$4.07
Subtotal On-Site Disposal Costs			\$1,138	\$233	\$1,138
2. NRC-Licensed Facility					
Assumptions:					
Additional \$2.00/ft ³ for segregation of concrete					
Percentage (%)			25	25	
Volume for Disposal (ft ³)			2513	516	
Segregation and Loading Unit Cost (\$/ft ³)			\$2.00	\$2.00	\$2.00
Transportation and Disposal Unit Cost (\$/ft ³)			\$5.62	\$5.62	\$5.62
Subtotal NRC-Licensed Facility Disposal Costs			\$19,145	\$3,929	\$0
Subtotal Concrete Floor Disposal Costs			\$20,283	\$4,162	\$1,138
C. Concrete Footing					
Length of Concrete Footing (ft)			463	210	463
Average Depth of Concrete Footing (ft)			4	4	4
Average Width of Concrete Footing (ft)			1	1	1
Volume of Concrete Footing (ft ³)			1852	839	1852
Volume of Concrete Footing (cy)			69	31	69
Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)			\$4.69	\$4.69	\$4.69
Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$4.07	\$4.07	\$4.07
Subtotal Concrete Footing Disposal Costs			\$280	\$127	\$280
Subtotal Disposal Costs per Building			\$28,603	\$5,389	\$9,458
Total Disposal Costs					
III. Health and Safety Costs					
Radiation Safety Equipment			\$1,000	\$1,000	
Total Health and Safety Costs					
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$147,487	\$30,994	\$109,176
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					

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Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Wellfield Piping										
	Assumptions:										
	Number of Header Houses per Wellfield		6	5	8	6	5	13	4	5	3
	Length of Piping per Header House (ft)		2000	2000	2000	2000	2000	2000	2000	2000	2000
	Total Length of Piping (ft)		12000	10000	16000	12000	10000	26000	8000	10000	6000
	A. Removal and Loading										
	Wellfield Piping Removal Unit Cost (\$/ft of pipe)		\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31
	Subtotal Wellfield Piping Removal and Loading Costs		\$3,720	\$3,100	\$4,960	\$3,720	\$3,100	\$8,060	\$2,480	\$3,100	\$1,860
	B. Transport and Disposal Costs (NRC-Licensed Facility)										
	Average Diameter of Piping (inches)		2	2	2	2	2	2	2	2	2
	Chipped Volume Reduction (ft ³ /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Chipped Volume per Wellfield (ft ³)		60	50	80	60	50	130	40	50	30
	Volume for Disposal Assuming 10% Void Space (ft ³)		66	55	88	66	55	143	44	55	33
	Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Wellfield Piping Transport and Disposal Costs		\$371	\$309	\$495	\$371	\$309	\$804	\$247	\$309	\$185
	Wellfield Piping Costs per Wellfield		\$4,091	\$3,409	\$5,455	\$4,091	\$3,409	\$8,864	\$2,727	\$3,409	\$2,045
	C. Capitol Costs										
	PVC Pipe Shredder		\$40,000								
	Total Wellfield Piping Costs		\$77,500								
II.	Well Pumps and Tubing										
	Assumptions:										
	Pump and tubing removal costs included under ground water restoration labor costs										
	60% of production/injection wells contain pumps and/or tubing										
	A. Pump and Tubing Transportation and Disposal										
	Number of Production Wells		115	146	145	124	101	251	60	100	54
	Number of Injection Wells		210	262	251	219	175	502	120	200	107
	1. Pump Volume										
	Number of Production Wells with Pumps		69	88	87	74	61	151	36	60	32
	Average Pump Volume (ft ³)		1	1	1	1	1	1	1	1	2
	Pump Volume per Wellfield (ft ³)		69	88	87	74	61	151	36	60	64
	2. Tubing Volume										
	Assumptions:										
	Average tubing length/wellfield based on average well depth minus 25 ft										
	Number of Production Wells with Tubing		69	88	87	74	61	151	36	60	32
	Number of Injection Wells with Tubing		126	157	151	131	105	301	72	120	64
	Average Tubing Length per Well (ft)		475	825	725	825	725	425	475	925	925
	Tubing Length per Wellfield (ft)		92625	202125	172550	169125	120350	192100	51300	166500	88800

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Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
	Diameter of Production Well Fiberglass Tubing (inches)		2	2	2	2	2	2	2	2	2
	Diameter of Injection Well HDPE Tubing (inches)		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	Chipped Volume Reduction (ft ³ /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Chipped Volume per Wellfield (ft ³)		463	1011	863	846	602	961	257	833	444
	Volume of Pump and Tubing (ft ³)		532	1099	950	920	663	1112	293	893	508
	Volume for Disposal Assuming 10% Void Space (ft ³)		585	1209	1045	1012	729	1223	322	982	559
	Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Pump and Tubing Transport and Disposal Costs		\$3,288	\$6,795	\$5,873	\$5,687	\$4,097	\$6,873	\$1,810	\$5,519	\$3,142
	Pump and Tubing Costs per Wellfield		\$3,288	\$6,795	\$5,873	\$5,687	\$4,097	\$6,873	\$1,810	\$5,519	\$3,142
	Total Pump and Tubing Costs		\$43,084								
III.	Buried Trunkline										
	Assumptions:										
	Length of Trunkline Trench (ft)		5075	7600	4790	7105	5460	10000	0	0	7000
A.	Removal and Loading										
	Main Pipeline Removal Unit Cost (\$/ft of trench)		\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85
	Subtotal Trunkline Removal and Loading Costs		\$4,314	\$6,460	\$4,072	\$6,039	\$4,641	\$8,500	\$0	\$0	\$5,950
B.	Transport and Disposal Costs (NRC-Licensed Facility)										
1.	1" Carbon Steel Trunkline										
	Piping Length (ft)							10000	0	0	0
	Volume (ft ³)							218	0	0	0
2.	1" HDPE Trunkline										
	Piping Length (ft)							10000	0	0	0
	Chipped Volume Reduction (ft ³ /ft)							0.005	0.005	0.005	0.005
	Chipped Volume (ft ³)							50	0	0	0
3.	3" HDPE Trunkline										
	Piping Length (ft)		5075	7600	4790	7105	5460	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)		0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
	Chipped Volume (ft ³)		111.65	167.2	105.38	156.31	120.12	0	0	0	0
4.	6" HDPE Trunkline										
	Piping Length (ft)		2410	10000	4820	3520	3800	20000	0	0	0
	Chipped Volume Reduction (ft ³ /ft)		0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
	Chipped Volume (ft ³)		187.98	780	375.96	274.56	296.4	1560	0	0	0
5.	8" HDPE Trunkline										
	Piping Length (ft)		4100		1100	2400	1840	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	Chipped Volume (ft ³)		615	0	165	360	276	0	0	0	0
6.	10" HDPE Trunkline										
	Piping Length (ft)		0	5200	3660	2280	2400	0	0	0	0

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		Chipped Volume Reduction (ft ³ /ft)		0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Chipped Volume (ft ³)		0	1440.4	1013.82	631.56	664.8	0	0	0	0
7.	12" HDPE Trunkline											
		Piping Length (ft)		1460	0	0	3210	2060	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
		Chipped Volume (ft ³)		427.78	0	0	940.53	603.58	0	0	0	0
8.	14" HDPE Trunkline											
		Piping Length (ft)		740	0	0	0	0	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft ³)		265.66	0	0	0	0	0	0	0	0
9.	16" HDPE Trunkline											
		Piping Length (ft)		1440	0	0	2800	820	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft ³)		576	0	0	1120	328	0	0	0	0
		Total Trunkline Chipped Volume (ft ³)		2184.07	2387.6	1660.16	3482.96	2288.9	1560	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft ³)		2402	2626	1826	3831	2518	1716	0	0	0
		Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
		Subtotal Trunkline Transport and Disposal Costs		\$13,499	\$14,758	\$10,262	\$21,530	\$14,151	\$9,644	\$0	\$0	\$0
		Trunkline Decommissioning Costs per Wellfield		\$17,813	\$21,218	\$14,334	\$27,569	\$18,792	\$18,144	\$0	\$0	\$5,950
		Total Trunkline Decommissioning Costs		\$123,820								
IV.	Well Houses											
		Total Quantity		315	408	396	343	276	392	0	50	120
		Average Well House Volume (ft ³)		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	A. Removal											
		Total Volume (ft ³)		3937.5	5100	4950	4287.5	3450	4900	0	625	1500
		Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$1.165
		Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$1.01
		Subtotal Well House Demolition Costs		\$564	\$731	\$710	\$615	\$495	\$702	\$0	\$90	\$1,518
	B. Survey and Decontamination											
		Assumptions:										
		Cost per Well House		\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$6
		Subtotal Survey and Decontamination Costs		\$1,575	\$2,040	\$1,980	\$1,715	\$1,380	\$1,960	\$0	\$250	\$720
	C. Disposal at NRC licensed Facility											
		Total Volume (cy)		146	189	183	159	128	181	0	23	56
		Volume for Disposal Assuming 10% Void Space (cy)		160	208	202	175	141	200	0	25	61
		Transportation and Disposal Unit Cost (\$/ft ³)		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$6.62
		Subtotal NRC Licensed Facility Disposal Costs		\$899	\$1,169	\$1,135	\$984	\$792	\$1,124	\$0	\$141	\$404

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Wellfield Buildings and Equipment Removal and Disposal		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
Well House Removal and Disposal Costs per Wellfield		\$3,038	\$3,940	\$3,825	\$3,314	\$2,667	\$3,786	\$0	\$481	\$2,642
Total Well House Removal and Disposal Costs		\$23,693								
VI.	Header Houses (Includes Booster Stations)									
	Total Quantity	6	5	8	6	5	13	4	5	3
	Average Header House Volume (ft ³)	2700	2700	2700	2700	2700	2700	2700	2700	2700
A.	Removal									
	Total Volume (ft ³)	16200	13500	21600	16200	13500	35100	10800	13500	8100
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$1.171
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$1.02
	Subtotal Building Demolition Costs	\$2,407	\$2,006	\$3,209	\$2,407	\$2,006	\$5,215	\$1,605	\$2,006	\$8,241
B.	Survey and Decontamination									
	Assumptions:									
	Cost per Header House	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$201
	Subtotal Survey and Decontamination Costs	\$1,200	\$1,000	\$1,600	\$1,200	\$1,000	\$2,600	\$800	\$1,000	\$603
C.	Disposal									
	Total Volume (cy)	600	500	800	600	500	1300	400	500	300
	Volume for Disposal Assuming 10% Void Space (cy)	660	550	880	660	550	1430	440	550	330
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$6.44
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$5.60
	Subtotal On-Site Disposal Costs	\$3,119	\$2,599	\$4,159	\$3,119	\$2,599	\$6,759	\$2,080	\$2,599	\$1,846
	Header House Removal and Disposal Costs per Wellfield	\$6,726	\$5,605	\$8,968	\$6,726	\$5,605	\$14,574	\$4,485	\$5,605	\$10,690
	Total Header House Removal and Disposal Costs	\$68,984								
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD		\$34,956	\$40,967	\$38,455	\$47,387	\$34,570	\$52,241	\$9,022	\$15,014	\$24,469
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS		\$337,081								

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Well Abandonment		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Well Abandonment (Wellfields)										
	# of Production Wells	115	146	145	Wells included under	124	101	251	60	100	54
	# of Injection Wells	210	262	251		219	175	502	120	200	107
	# of Monitoring Wells	49	50	40		51	39	105	60	61	80
	Total Number of Wells	374	458	436		394	315	858	240	361	241
	Average Diameter of Casing (inches)	5	5	5		5	5	4.5	4.5	4.5	4.5
	Average Depth (ft)	500	850	750		850	750	450	500	950	950
	Well Abandonment Unit Cost (\$/well)	\$280	\$304	\$297		\$304	\$297	\$277	\$277	\$277	\$304
	Subtotal Abandonment Cost per Wellfield	\$104,814	\$139,095	\$129,492		\$119,658	\$93,555	\$237,580	\$66,456	\$99,961	\$73,192
	Total Wellfield Abandonment Costs	\$1,063,803									
II.	Waste Disposal Well Abandonment	DDW#1	DDW#2	SW DDW							
	A. Well Plugging										
	Drill Rig Operation (\$/hr)	150	150	150							
	Number of Hours	31	31	31							
	Drill Rig Operating Costs	\$4,650	\$4,650	\$4,650							
	Cementing Costs	\$7,500	\$7,500	\$7,500							
	Equipment Transport Costs	\$1,000	\$1,000	\$1,000							
	Well Cap Welding Costs	\$1,000	\$1,000	\$1,000							
	Brine Makeup and Injection Costs	\$1,500	\$1,500	\$1,500							
	Subtotal Well Plugging Costs per Well	\$15,650	\$15,650	\$15,650							
	B. Pump Dismantling and Decontamination										
	Number of Persons	2	2	2							
	Number of Pumps	2	2	2							
	Pumps/Day	0.5	0.5	0.5							
	Number of Days	4	4	4							
	\$/Day/Person	\$112	\$112	\$112							
	Subtotal Dismantling and Decon Costs per Well	\$896	\$896	\$896							
	C. Tubing String Disposal (NRC-Licensed Facility)										
	Length of Tubing String (ft)	10100	10100	10100							
	Diameter of Tubing String (inches)	2.875	2.875	2.875							
	Volume of Tubing String (ft ³)	455	455	455							
	Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$5.62	\$5.62							
	Subtotal Tubing String Disposal Costs per Well	\$2,558	\$2,558	\$2,558							
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$19,104	\$19,104	\$19,104							
	Total Waste Disposal Well Abandonment Costs	\$38,208									
	TOTAL WELL ABANDONMENT COSTS	\$1,102,011									

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Wellfield and Satellite Surface Reclamation		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Wellfield Pattern Area, Laydown Area, and Road Reclamation										
	Area (acres)	27.1	53.24	38.72	18	31.43	29.6	66.8	1	5	7
	Disking/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs	\$5,420	\$10,648	\$7,744	\$3,600	\$6,286	\$5,920	\$13,360	\$200	\$1,000	\$1,400
	Total Wellfield Area Reclamation Costs	\$55,578									
III.	Satellite Area Reclamation	SR-1	SR-2								
	Assumptions:										
	Area of Disturbance (acres)	2.05	3								
	Average Depth of Stripped Topsoil (ft)	1	1								
	Surface Grade: Level Ground										
	Average Length of Topsoil Haul (ft)	1000	500								
	A. Ripping Overburden with Dozer										
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$663.93	\$663.93								
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)	\$576.83	\$576.83								
	Subtotal Ripping Costs	\$1,182	\$1,730								
	B. Topsoil Application with Scraper										
	Volume of Topsoil Removed (cy)	3307	4840								
	Application Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.71	\$0.71								
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.62								
	Subtotal Topsoil Application Costs	\$2,040	\$2,986								
	C. Discing and Seeding										
	Disking/Seeding Unit Cost (\$/acre)	\$200	\$200								
	Subtotal Disking/Seeding Costs	\$410	\$600								
	Subtotal Surface Reclamation Costs per Satellite	\$3,632	\$5,316								
	Total Satellite Building Area Reclamation Costs	\$8,948	\$5,316								
	TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS	\$64,526									

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Miscellaneous Reclamation						
I. CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation						
Assumptions						
Concrete Pad= 0.3 acres						
Total Area = 10.57 acres						
A. Concrete Pad						
Area of Concrete Pad (ft ²)						
						13068
Demolition Unit Cost per WDEQ Guideline No.12, App K (\$/ft ²)						
						\$3.17
Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)						
						\$2.75
Average Thickness of Concrete Floor (ft)						
						0.50
Volume of Concrete Floor (ft ³)						
						6,534
Volume of Concrete Floor (cy)						
						242
On-Site Disposal Unit Cost per WDEQ Guideline No.12, App K (\$/cy)						
						\$4.69
Unit Cost in \$/cy (July 1998 dollars w/o escalator)						
						\$4.07
Subtotal Concrete Pad Demolition and Disposal Costs						
						\$36,977
B. Gravel Road Base Removal						
Assumptions						
Average haul distance (ft)						
						1000
Gravel Road Base Width (ft)						
						8.0
Gravel Road Base Area (acres)						
						0.5
Average Road Base Depth (ft)						
						6433
Volume of Road Base (cy)						
						\$0.71
Removal Unit Cost per WDEQ Guideline No.12, App C (\$/cy)						
						\$0.62
Unit Cost in \$/cy (July 1998 dollars w/o escalator)						
						\$3,981
Subtotal Gravel Road Base Removal Costs						
B. Ripping Overburden with Dozer						
Overburden Surface Area (acres)						
						10.6
Ripping Unit Cost per WDEQ Guideline No.12, App 11 (\$/acre)						
						\$663.93
Unit Cost in \$/acre (July 1998 dollars w/o escalator)						
						\$576.83
Subtotal Ripping Overburden Costs						
						\$6,097
C. Topsoil Application						
Assumptions:						
Area of surface disturbance (ft ²)						
						460426
Average thickness of topsoil (ft)						
						1
Average haul distance (ft)						
						2000
Surface grade (%)						
						0%
Volume of Topsoil (cy)						
						17,053
Topsoil Unit Cost per WDEQ Guideline No.12, App C (\$/cy)						
						\$0.92
Unit Cost in \$/cy (July 1998 dollars w/o escalator)						
						\$0.80
Subtotal Topsoil Application Costs						
						\$13,630
D. Discing/Seeding						
Assumptions						
Surface Area (acres)						
						10.57
Discing/Seeding Unit Cost (\$/acre)						
						\$200
Total Discing/Seeding Costs						
						\$2,114
Total CPF/Office/Yard Area Reclamation						
						\$58,818
II. Access Road Reclamation						
A. Assumptions						
Surface grade						
						1%
Length of Road (ft)						
						5173
Width of Road (ft)						
						40
Area of road (acres)						
						4.75
B. Gravel Road Base Removal						
Assumptions						
Average haul distance (ft)						
						1000
Gravel Road Base Width (ft)						
						30
Gravel Road Base Area (acres)						
						3.56
CPP Access Rd.						
						5%
CPP to SAT 3						
						15827
Access to WF						
						15557
MU-15 Access						
						10560
SR2 Access						
						8500
Surface grade						
						5%
Length of Road (ft)						
						5173
Width of Road (ft)						
						40
Area of road (acres)						
						4.75
Average haul distance (ft)						
						1000
Gravel Road Base Width (ft)						
						30
Gravel Road Base Area (acres)						
						3.56

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Miscellaneous Reclamation					
	Average Road Base Depth (ft)	0.5	0.5	0.5	0.5
	Volume of Road Base (cy)	2874	5862	2881	3911
	Removal Unit Cost per WDEQ Guideline No.12, App C (\$/cy)	\$0.71	\$0.71	\$0.71	\$0.71
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.62	\$0.62	\$0.62
	Subtotal Gravel Road Base Removal Costs	\$1,773	\$3,616	\$1,777	\$2,413
C.	Ripping Overburden with Dozer				
	Overburden Surface Area (acres)	4.8	10.9	5.0	7.3
	Ripping Unit Cost per WDEQ Guideline No.12, App II (\$/acre)	\$663.93	\$663.93	\$663.93	\$663.93
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)	\$576.83	\$576.83	\$576.83	\$576.83
	Subtotal Ripping Overburden Costs	\$2,740	\$6,287	\$2,884	\$4,195
D.	Topsoil Application				
	Assumptions				
	Average haul distance (ft)	1500	1500	1500	1500
	Topsoil Surface Area (ft ²)	206910	474804	217800	316800
	Depth of Topsoil (ft)	0.5	0.5	0.5	0.5
	Volume of Topsoil (cy)	3832	8793	4033	5867
	Topsoil Unit Cost per WDEQ Guideline No.12, App C (\$/cy)	\$1.50	\$1.50	\$0.82	\$0.82
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$1.30	\$1.30	\$0.71	\$0.71
	Subtotal Topsoil Application Costs	\$4,993	\$11,459	\$2,873	\$4,180
E.	Discing/Seeding				
	Assumptions				
	Surface Area (acres)	4.8	10.9	5.0	7.3
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200	\$200
	Subtotal Discing/Seeding Costs	\$950	\$2,180	\$1,000	\$1,455
	Subtotal Reclamation Costs per Access Road	\$10,456	\$23,542	\$8,534	\$12,243
	Total Access Road Reclamation Costs	\$64,629			\$9,854
III.	Trunk Lines	Trunk Line #1 (To MU-4)	Trunk Line #2 (To SR-1)	Trunk Line #3 (MU-15 to SR-1)	Trunk Line #4 (O-Sand Pilot)
	Length of Trench (ft)	7750	8500	21250	5500
A.	Removal and Loading				
	Main Pipeline Removal Unit Cost (\$/ft of trench)	\$0.85	\$0.85	\$0.85	\$0.85
	Subtotal Trunkline Removal and Loading Costs	\$6,588	\$7,225	\$18,063	\$4,675
B.	Transport and Disposal Costs (NRC-Licensed Facility)				
	1. 12" HDPE Trunkline				
	Piping Length (ft)	7750	42500	21250	22000
	Chipped Volume Reduction (ft ³ /ft)	0.005	0.005	0.005	0.005
	Chipped Volume (ft ³)	38.75	212.5	106.25	110
	2. 3" HDPE Trunkline				
	Piping Length (ft)	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.022	0.022	0.022	0.022
	Chipped Volume (ft ³)	0	0	0	0
	3. 6" HDPE Trunkline				
	Piping Length (ft)	7750	17000	42500	0
	Chipped Volume Reduction (ft ³ /ft)	0.078	0.078	0.078	0.078
	Chipped Volume (ft ³)	604.5	1326	3315	0
	4. 8" HDPE Trunkline				
	Piping Length (ft)	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.15	0.15	0.15	0.15
	Chipped Volume (ft ³)	0	0	0	0
	5. 10" HDPE Trunkline				
	Piping Length (ft)	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.277	0.277	0.277	0.277
	Chipped Volume (ft ³)	0	0	0	0

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4.	12" HDPE Trunkline								
	Piping Length (ft)	0	9000	0	0	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
	Chipped Volume (ft ³)	0	2637	0	0	0	0	0	0
5.	14" HDPE Trunkline								
	Piping Length (ft)	0	0	0	0	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
	Chipped Volume (ft ³)	0	0	0	0	0	0	0	0
5.	16" HDPE Trunkline								
	Piping Length (ft)	15500	11000	21120	15500	15500	15500	15500	15500
	Chipped Volume Reduction (ft ³ /ft)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Chipped Volume (ft ³)	6200	4400	8448	6200	6200	6200	6200	6200
6.	18" HDPE Trunkline								
	Piping Length (ft)	0	31500	0	0	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
	Chipped Volume (ft ³)	0	14805	0	0	0	0	0	0
	Volume for Disposal Assuming 10% Void Space (ft ³)	6804.5	8363	11763	6200	6200	6200	6200	6200
	Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft ³)	7485	9199	12939	6820	6820	6820	6820	6820
	Subtotal Pipeline Disposal Costs	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
C.	Discing/Seeding	\$42,066	\$51,698	\$72,717	\$38,328	\$38,328	\$38,328	\$38,328	\$38,328
	Assumptions:								
	Width of Pipeline Trench (ft)	4	4	4	4	4	4	4	4
	Area of Pipeline Trench (acres)	0.7	0.8	2.0	0.5	0.5	0.5	0.5	0.5
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
	Subtotal Discing/Seeding Costs	\$142	\$156	\$390	\$101	\$101	\$101	\$101	\$101
	Subtotal Reclamation Costs per Pipeline	\$48,796	\$59,079	\$91,170	\$43,104	\$43,104	\$43,104	\$43,104	\$43,104
	Total Pipeline Reclamation Costs	\$282,648							
IV.	Settling Basin/Evap. Pond Reclamation								
	Evaporation Pond								
	Settling Pond								
A.	Soil Sampling and Monitoring								
	Number of Soil Samples	0	15						
	\$/Sample	\$60	\$60						
	Subtotal Soil Sampling and Monitoring Costs	\$0	\$900						
B.	Liner/Subsoil Removal and Disposal								
	Assumptions:								
	Clay liner and subsoil constitute by-product material								
	Thickness of clay liner (ft)	0.5	0.5						
	Thickness of contaminated subsoil (ft)	0.5	0.5						
	Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook								
	Width of Pond (ft)	200	252						
	Length of Pond (ft)	100	432						
	Depth of Pond (ft)	10	20						
	Surface area of pond (ft ²)	20000	108864						
1.	Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)								
	Volume of Clay Liner (cy)	741	0						
	Clay Liner Removal and Loading Unit Cost (\$/cy)	\$3	\$3						
	Subtotal Liner Removal and Loading Costs	\$2,222	\$0						
2.	Transportation and Disposal								
	Volume of Clay Liner (ft ³)	0	0						
	Volume of Geotextile Liner (ft ³)	50	0						
	Volume of Geotextile Liner @ 40% void (ft ³)	83	0						
	Transportation and Disposal Unit Cost (\$/ft ³)	\$5.62	\$5.62						
	Subtotal Liner Transportation and Disposal Costs	\$468	\$0						
	Subtotal Liner Removal and Disposal Costs	\$2,690	\$0						
C.	Grade and Contour								

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Miscellaneous Reclamation			
	Volume of Embankment Material (CY)	7,407	80,640
	Average Grade (%)	0	0
	Distance (ft)	50	100
	Material Moving Unit Cost per WDEQ Guideline No 12, App E (\$/cy)	\$0.092	\$0.161
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.08	\$0.14
	Subtotal Grade and Contour Costs	\$592	\$11,280
C.	Topsoil Application		
	Assumptions:		
	Area of surface disturbance (ft ²)	20000	108899
	Average thickness of topsoil (ft)	1	1
	Average haul distance (ft)	1000	1000
	Surface grade (%)	0%	3%
	Volume of Topsoil (cy)	741	4,033
	Topsoil Unit Cost per WDEQ Guideline No 12, App C (\$/cy)	\$0.71	\$0.71
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.62
	Subtotal Topsoil Application Costs	\$457	\$2,488
D.	Discing/Seeding		
	Assumptions:		
	Area of surface disturbance (acres)	0.5	2.5
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$100	\$500
	Subtotal Reclamation Costs per Pond	\$3,839	\$15,168
	Total Settling Basin/Evap. Ponds Reclamation Costs	\$19,007	
V.	Miscellaneous Structures		
A.	Venthole		
	Hole Depth (ft)	335	
	Concrete Volume (cy)	270	
	Backfill (\$1.09/cy)	\$365	
	Backhoe 16 hrs (\$50/hour)	\$800	
	Steel Plate and Rebar	\$300	
	Cement (10 cy @ \$76/cy delivered)	\$760	
	Labor (40 man-hours @ \$15/hour)	\$600	
	Dirt Cover (100 cy @ \$1.09/cy)	\$109	
	Subtotal Venthole Plugging Costs	\$2,934	
B.	Potable Water Wells		
	Total Depth (ft) (Two 5-inch Diameter Wells, @ 750 ft)	1,500	
	Well Abandonment Unit Cost (\$/100 ft)	\$6.70	
	Subtotal Potable Water Wells Abandonment Costs	\$100.50	
C.	Fuel Area		
	Concrete Floor		
	Area of Concrete Floor (ft ²)	325	
	Demolition Unit Cost per WDEQ Guideline No 12, App K (\$/ft ²)	\$3.17	
	Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)	\$2.75	
	Subtotal Concrete Floor Demolition Costs	\$1,033	
	Concrete Footing		
	Length of Concrete Footing (ft)	77	
	Demolition Unit Cost per WDEQ Guide. No 12, App K (\$/lin. ft)	\$11.45	
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)	\$9.95	
	Subtotal Concrete Footing Demolition Costs	\$771	
	Subtotal Fuel Area Costs	\$1,804	
	Total Miscellaneous Structures Reclamation Costs	\$4,838.65	
TOTAL MISCELLANEOUS RECLAMATION COSTS		\$429,941	

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RADIUM TREATMENT			
Assumptions:			
1.	Based on actual 1998 operating costs from Satellite No. 2		
Radium Treatment Costs per 1000 Gallons			
	Chemical	= \$	0.177
	Filtration	= \$	0.021
	Electricity	= \$	0.019
	By Product Disposal of Sludge	= \$	0.097
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		= \$	0.31

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GROUNDWATER SWEEP (GWS)									
Assumptions:									
1. All pumps are 5 hp pumping at 5.0 gpm									
2. Cost of electricity = \$0.03/kwh									
3. All water pumped is disposed at WDW with a 20 hp pump									
4. Repair and maintenance costs estimated at \$0.03/1000 gallons									
5. Process sampling and analysis costs estimated at \$0.03/1000 gallons									
6. Labor costs are not included									
Wellfield Pumping Costs per 1000 Gallons									
1000 gal	X	5 hp	X	1 hr	X	0.746 kwh	X	\$ 0.03	= \$ 0.37
		5 gpm		60 min		hp		kwh	
Pumping to WDW Costs per 1000 Gallons									
1000 gal	X	75 hp	X	1 hr	X	0.746 kwh	X	\$ 0.03	= \$ 0.14
		200 gpm		60 min		hp		kwh	
Repair and Maintenance Costs per 1000 Gallons								= \$ 0.03	
Process Sampling and Analysis Costs per 1000 Gallons								= \$ 0.03	
TOTAL GWS COSTS PER 1000 GALLONS								= \$ 0.57	

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REVERSE OSMOSIS (RO)									
Assumptions:									
1.	Based on actual 1998 operating costs at Satellite No. 1. Verified by Hydranautics RO System Design Software, Version 6.0 (1995)								
2.	Cost of electricity = \$0.03/kwh								
3.	80% permeate/20% reject split								
4.	Membrane life of 4 years with a cost of \$695 per membrane element								
5.	Includes cost of pumping from wellfield to RO Unit								
6.	The 20% reject is disposed at WDW with a 20 hp pump at actual cost of \$0.14/1000 gallons								
7.	The permeate is returned to the wellfield with a 20 hp pump at actual cost of \$0.019/1000 gallons								
8.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
9.	Labor costs are not included								
Reverse Osmosis Costs per 1000 Gallons									
	Electricity							= \$	0.17
	Chemicals							= \$	0.26
	Membrane Replacement							= \$	0.15
	Repair and Maintenance							= \$	0.26
	Pumping from Wellfield							= \$	0.37
	Pumping to Wellfield							= \$	0.019
	Pumping to WDW								
		\$	0.14	X	0.2			= \$	0.0028
	Process Sampling and Analysis							= \$	0.03
TOTAL RO COSTS PER 1000 GALLONS								= \$	1.26

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CHEMICAL REDUCTANT														
Assumptions:														
1.	Bioremediation is utilized													
2.	Based on actual 2003-2004 operating costs during restoration activities													
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal												= \$ 0.33		
										July 1998 Dollars		= \$ 0.29		

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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ELUTION PROCESSING														
Assumptions:														
1.	Based on actual operating costs													
TOTAL PROCESSING COSTS PER ELUTION = \$ 525														

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DEEP WELL INJECTION									
Assumptions:									
1.	Pump 75 hp pumping at 200 gpm								
2.	Cost of electricity = \$0.03/kwh								
3.	Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year								
4.	Repair and maintenance costs estimated at \$1.25/1000 gallons								
5.	Chemical costs based on average injection volume of 8,000,000 gallons per year								
6.	Labor costs are not included								
Waste Disposal Pumping Costs per 1000 Gallons									
	1000 gal	X	75 hp	X	1 hr	X	0.746 kwh	X	\$ 0.03
			200 gpm		60 min		hp		kwh
									= \$ 0.14
Repair and Maintenance Costs per 1000 Gallons									= \$ 1.25
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS									= \$ 1.39

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WELL ABANDONMENT									
Assumptions:									
1. Use backhoe for 0.5 hr/well to dig and reclaim pit at cost of \$50/hr.									
2. Use hose reel/tow vehicle for 2 hr/well to pull hoses and pump plug gel at cost of \$35/hr.									
3. Use cementer/tow vehicle for 1 hr/well to pump plug gel at cost of \$45/hr.									
4. Labor for backhoe, hose reel, cementer will require 2 workers at 3.5 hr/well at cost of \$15/hr.									
5. Materials include one hole plug at \$1.75 and one sack of plug gel/100 ft of 5 inch well casing.									
Cost of plug gel is \$6.70/sack.									
Well Abandonment Costs									
Fixed Costs									
Backhoe									
	0.5	hours	X	\$ 50	per hour	=	\$	25.00	
Hose Reel/Tow Vehicle									
	2	hours	X	\$ 35	per hour	=	\$	70.00	
Cementer/Tow Vehicle									
	1	hours	X	\$ 45	per hour	=	\$	45.00	
Labor									
	7	man	X	\$ 15.00	per man	=	\$	105.00	
		hours			hour				
Materials									
	1	hole	X	\$ 1.75	per hole	=	\$	1.75	
		plug			plug				
					Total Fixed Costs	=	\$	246.75	
Variable Costs (per 100 ft of well depth)									
Materials									
	1	sack plug gel	X	\$ 6.70	per sack	=	\$	6.70	
		per 100 feet							
Cost per Well per Unit of Average Depth									
Well Depth (ft)									
				450		=	\$	277	
				500		=	\$	280	
				550		=	\$	284	
				600		=	\$	287	
				650		=	\$	290	
				700		=	\$	294	
				750		=	\$	297	
				800		=	\$	300	
				850		=	\$	304	
				900		=	\$	307	
				950		=	\$	310	

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
Assumptions:									
1. Based on 1999 PRI costs.									
2. Use Pulling Unit for 0.25 hr/well at cost of \$45/hr.									
3. Use MIT Unit for 1.5 hr/well at cost of \$20/hr.									
4. Labor for operation of pulling unit will require 2 workers at \$15/hr									
5. Labor for operation of MIT Unit will require 1 worker at \$15/hr									
MIT Costs per Well									
Equipment:									
Pulling Unit									
0.25 hours X \$ 45 per hour =\$ 11.25									
MIT Unit									
1.5 hours X \$ 20 per hour =\$ 30.00									
Labor:									
Pulling Unit									
0.25 hours X \$ 15 per hour X 2 workers =\$ 7.50									
MIT Unit									
1.5 hours X \$ 15 per hour =\$ 22.50									
MIT COST PER WELL =\$ 71									

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MAIN PIPELINE REMOVAL									
Assumptions:									
1. Trenching with trackhoe at 1500 ft/day									
2. Pipeline extraction and backfilling with trackhoe at 1500 ft/day									
3. Trackhoe rental: \$1600/week									
4. Fuel cost: \$9/operating hour									
5. Trackhoe operation requires 1 worker at \$15/hour									
6. Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)									
7. Pipelines removed simultaneously									
8. Includes removal of manholes									
9. Operating schedule: 8 hrs/day, 5 days/week									
Main Pipeline Removal Costs per ft of Trench									
Equipment									
Trackhoe									
	\$ 1600	X	1 week	X	2 days	=\$ 0.43			
	week		5 days		1500 ft				
Fuel									
	\$ 9	X	8 hrs	X	2 days	=\$ 0.10			
	hour		1 day		1500 ft				
Labor									
Trackhoe Operation									
	\$ 15	X	8 man hrs	X	2 days	=\$ 0.16			
	man hr		1 day		1500 ft				
Pipeline Extraction									
	\$ 15	X	16 man hrs	X	1 day	=\$ 0.16			
	man hr		1 day		1500 ft				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH =\$ 0.85									

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WELLFIELD PIPING REMOVAL									
Assumptions:									
1.	Trenching with backhoe at 3000 ft/day								
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day								
3.	Backhoe rental: \$750/week								
4.	Fuel cost: \$9/operating hour								
5.	Backhoe operation requires 1 worker at \$15/hour								
6.	Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)								
7.	Operating schedule: 8 hrs/day, 5 days/week								
Main Pipeline Removal Costs per ft of Pipe									
Equipment									
Backhoe									
	\$ 750	X	1 week	X	2 days	= \$ 0.10			
	week		5 days		3000 ft				
Fuel									
	\$ 9	X	8 hrs	X	2 days	= \$ 0.05			
	hour		1 day		3000 ft				
Labor									
Backhoe Operation									
	\$ 15	X	8 man hrs	X	2 days	= \$ 0.08			
	man hr		1 day		3000 ft				
Pipeline Extraction									
	\$ 15	X	16 man hrs	X	1 day	= \$ 0.08			
	man hr		1 day		3000 ft				
MAIN PIPELINE REMOVAL COST PER FT OF PIPE = \$ 0.31									

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WELLFIELD ROAD RECLAMATION									
Assumptions (Roads constructed before January 1, 1997):									
1.	Gravel road base removed at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)								
2.	Gravel road base: average depth = 0.25 ft, average width = 10 ft								
3.	Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)								
4.	Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)								
5.	Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)								
6.	Stripped topsoil: average depth = 0.67 ft, average width = 25 ft								
7.	Discing/seeding cost of \$200/acre is based on actual contractor costs								
Gravel Road Base Removal Costs per 1000 ft of Road									
	1000 ft	X	0.25 ft	X	10 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}} = \$ 56$
Scarification Costs per 1000 ft of Road									
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$36.30}{\text{acre}} = \$ 21$
Grading Costs per 1000 ft of Road									
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$38.45}{\text{acre}} = \$ 22$
Topsoil Application Costs per 1000 ft of Road									
	1000 ft	X	0.67 ft	X	25 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}} = \$ 372$
Discing/Seeding Costs per 1000 ft of Road									
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$200}{\text{acre}} = \$ 115$
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
	1000 FT OF ROAD (BEFORE JANUARY 1, 1997)								= \$ 586
Assumptions (Roads constructed after January 1, 1997):									
1.	Gravel road base will not be removed								
2.	Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)								
3.	Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)								
4.	Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)								
5.	Stripped topsoil: average depth = 0.4 ft, average width = 20 ft								
6.	Discing/seeding cost of \$200/acre is based on actual contractor costs								
Scarification Costs per 1000 ft of Road									
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$36.30}{\text{acre}} = \$ 17$
Grading Costs per 1000 ft of Road									
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$38.45}{\text{acre}} = \$ 18$
Topsoil Application Costs per 1000 ft of Road									
	1000 ft	X	0.40 ft	X	20 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}} = \$ 178$
Discing/Seeding Costs per 1000 ft of Road									
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$200}{\text{acre}} = \$ 92$
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
	1000 FT OF ROAD (AFTER JANUARY 1, 1997)								= \$ 305

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BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL									
Assumptions:									
1.	Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.								
2.	Includes profit for transporter and disposal facility.								
3.	All types of waste shipped vi bulk container (30-yd ³ dumpster or 30-yd ³ dump truck).								
4.	Each shipment contains 30,000 lbs of material.								
		Transportation Cost				Disposal Cost			Total
		\$ 66.67	/yd ³	+	\$ 85.00	/yd ³	=	\$ 151.67	/yd ³
							=	\$ 5.62	/ft ³

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DISKING/SEEDING									
Assumptions:									
1. Based on actual contractor costs									
TOTAL DISKING/SEEDING COSTS PER ACRE = \$ 200									

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Abbreviations/Acronyms					
\$	Dollars				
\$/Kgal	Dollars per 1000 gallons				
avg	average				
ft	feet				
ft ²	square feet				
ft ³	cubic feet				
gal	gallon				
gpm	gallons per minute				
H&S	Health and Safety				
H ₂ S	Hydrogen Sulfide				
H ₂ SO ₄	Sulfuric Acid				
HCl	Hydrochloric Acid				
Hp	Horsepower				
Kgal	1000 gallons				
Kwh	Kilowatt-hours				
NaOH	Caustic Soda				
OD	Outside Diameter				
PPE	personal protective equipment				
PV	Pore Volume Estimate				
reqm't	requirement				
RO	Reverse Osmosis				
WDW	Waste Disposal Well				
yd ³	cubic yards				
yr	year				