



**RECURRING COST**

	<b>Item</b>	<b>Amount (\$)</b>	<b>Units</b>	<b>Cost Basis</b>
<b>ELECTRICAL</b>				
	Power Cost (current actual costs)	\$0.048	kw/hr	<i>Cost of electricity from current contract - Pacific Power and Light</i>
	Kilowatt to Horsepower	\$0.176	kw/hp	
	Horsepower per gpm	\$0.167	hp/gpm	
	Per 1000 gallons pumped	\$0.600	per 1000 gal	
	Cost per Month (Central Plant and Satellites)	\$8,500	unit	
	Cost per Month (Main Office)	\$1,825	unit	
<b>LABOR RATES</b>				
	Operator	\$136.34	day	<i>Labor costs from current in-field charges paid by PRI</i>
	Environmental Manager	\$100,000	year	
	Environmental Technician	\$80,000	year	
	Maintenance Technician	\$34,000	year	
<b>CHEMICAL</b>				
	Reductant	\$0.30	per 1000 lb	<i>Chemical costs from current PRI vendor purchase agreements</i>
	Cement	\$7.62	sack	
	Plug Gel	\$6.45	sack	
	Hydrochloric Acid	\$0.1375	lb	
	Elution Unit Chemical Cost	\$900	unit	
<b>ANALYTICAL</b>				
	Guideline 8	\$200	batch	<i>Analytical costs from current contract with Energy Labs, Casper, Wyoming</i>
	6 Parameters	\$70	batch	
	Other In-House (Radon, Biological, Soils, etc.)	\$50	batch	<i>In-house estimate for material and labor</i>
<b>SPARE PARTS</b>				
	Restoration Spare Parts	\$20,000	year	<i>Costs for spare parts from operator experience</i>
<b>TRANSPORTATION AND DISPOSAL</b>				
	11 (e)(2) Material Transport	\$1.33	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility &amp; contract trucker</i>
	11 (e)(2) Material Disposal	\$11.00	cubic yard	
	Soil/Solid Waste Transport (11(e) (2)	\$1.33	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility &amp; contract trucker</i>
	Soil/Solid Waste Disposal (11(e) (2)	\$3.70	cubic yard	
	Soil/Solid Waste (non-contam., on-site)	\$1.25	cubic yard	<i>In-house estimate based on material cost and labor</i>
<b>VEHICLE OPERATION</b>				
	Unit Cost	\$20.21	unit	<i>Cost per WDEQ Guideline 12</i>
<b>PLANT DISMANTLING</b>				
	Concrete Footer Demolition	\$12.22	cubic foot	<i>Costs per WDEQ Guideline 12, App. K</i>
	Concrete Floor Demolition	\$3.40	cubic foot	
<b>PLANT DECONTAMINATION AND DISPOSAL</b>				
	Direct Disposal Plant Floor	\$1.25	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility</i>
	Solution (HCL) Application Rate	\$0.57	square foot	<i>In-house estimate based on actual material cost</i>
<b>PIPE REMOVAL</b>				
	2-inch SDR 13.5 inj. & prod. Removal	\$0.91	foot	<i>Costs for pipe removal from operator experience</i>
	Trunkline Removal	\$0.43	foot	<i>Includes labor and equipment</i>

**RECURRING COST**

	<b>Item</b>	<b>Amount (\$)</b>	<b>Units</b>	<b>Cost Basis</b>
<b>EQUIPMENT</b>				
	Cat Trackhoe	\$1,125	week	<i>Costs for equipment rental from Wyoming Machinery, Casper, Wyoming. All inclusive (labor, repairs, fuel, and Mob)</i>
	Shredder	\$50,000		<i>Equipment owned by PRI</i>
	Cat Motor Grader	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Drill Rig	\$110.00	hour	<i>Costs for equipment from operator experience</i>
	Hose Reel	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Cementer	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Dozer	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Scraper	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Pulling Reel	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Manlift	\$8,900.00	month	<i>Costs for equipment from operator experience</i>
	Belly Dump	\$100.00	hour	<i>Costs for equipment from operator experience</i>
<b>RECLAMATION</b>				
	Discing and Seeding	\$280	acre	<i>Operator Experience based on Current Contractor Pricing</i>
	Top Soil Application	\$0.71	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
<b>MIT</b>				
	Mechanical Integrity Testing	\$188.17	well	<i>Operator Experience based on Current Contractor Pricing</i>

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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) (HH x 20 patterns x 10,000)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,600,000	800,000	1,000,000	2,600,000
Wellfield Area (acres)		25.6	51.9	37.2	18.0	30.6	24.1	7.8	59.7	18.4	23.0	59.7
Affected Ore Zone Area (ft2)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,600,000	800,000	1,000,000	2,600,000
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	1.4	1.5	2.2	1.7	1.9	3.4	1.2	2.2	2	1.2
Affected Volume (ft3)		34,126,007	75,941,779	48,673,860	24,110,240	40,844,819	33,933,605	20,833,765	59,280,000	33,440,000	40,000,000	62,400,000
Kgallons per Pore Volume		68,921	153,372	98,302	48,693	82,490	68,532	42,076	119,722	67,535	80,784	126,023
Number of Patterns in Unit(s)												
Current		116	146	162	76	128	101	35	251	89	106	0
Estimated next report period		0	0	0	0	0	0	0	0	0	40	260
Total Estimated		116	146	162	76	128	101	35	251	89	146	260
Number of Wells in Unit(s)												
Production Wells												
Current		115	146	145	Wells	124	101	Wells	251	89	106	0
Estimated next report period		0	0	0	included	0	0	included	0	0	40	260
Total Estimated		115	146	145	under	124	101	under	251	89	146	260
Injection Wells												
Current		210	262	251	Wellfield 3	219	175	Wellfield 4	502	155	185	0
Estimated next report period		0	0	0	and	0	0	Wellfield 4A	0	0	70	455
Total Estimated		210	262	251	219	175	502	155	255	455		
Monitoring Wells												
Current		49	50	40		51	39		105	61	56	0
Estimated next report period		0	0	0		0	0		0	0	0	93
Total Estimated		49	50	40		51	39		105	61	56	93
Number of Wells per Wellfield		374	458	436		394	315		858	305	457	808
Total Number of Wells		2835										
Average Well Depth (ft)		500	850	750		850	750		450	500	950	950
<b>I. Ground Water Sweep Costs</b>												
PV's Required		1	1	1	1	1	1	1	1	1	1	1
Total Kgals for Treatment		68,921	153,372	98,302	48,693	82,490	68,532	42,076	119,722	67,535	80,784	126,023
Ground Water Sweep Unit Cost (\$/Kgal)		\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35
Subtotal Ground Water Sweep Costs per Wellfield		\$93,085	\$207,144	\$132,766	\$65,765	\$111,411	\$92,560	\$56,828	\$161,696	\$91,213	\$109,107	\$170,207
<b>Total Ground Water Sweep Costs</b>		<b>\$1,291,782</b>										
<b>II. Reverse Osmosis Costs</b>												
PV's Required		3	3	3	3	3	3	3	3	3	3	3
Total Kgals for Treatment		206,763	460,116	294,905	146,079	247,471	205,597	126,228	359,166	202,606	242,352	378,069
Reverse Osmosis Unit Cost (\$/Kgal)		\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96	\$0.96
Subtotal Reverse Osmosis Costs per Wellfield		\$197,635	\$439,804	\$281,887	\$139,631	\$236,546	\$196,521	\$120,655	\$343,310	\$193,662	\$231,653	\$361,379
<b>Total Reverse Osmosis Costs</b>		<b>\$2,742,683</b>										
<b>III. Chemical Reductant Costs</b>												
Total Kgals for Treatment (2 Pore Volumes)		137842	306744	196603	97386	164980	137065	84152	239444	135071	161568	252046
Chemical Reductant Unit Cost (\$/Kgal)		\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30
Subtotal Chemical Reductant Costs per Wellfield		\$41,353	\$92,023	\$58,981	\$29,216	\$49,494	\$41,119	\$25,246	\$71,833	\$40,521	\$48,470	\$75,614
<b>Total Chemical Reductant Costs</b>		<b>\$573,870</b>										

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<b>IV. Elution Costs</b>												
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	8	18	11	6	9	8	5	14	8	9	14
	Processing Unit Cost (\$/Elution)	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900
	Subtotal Processing Costs per Wellfield	\$7,200	\$16,200	\$9,900	\$5,400	\$8,100	\$7,200	\$4,500	\$12,600	\$7,200	\$8,100	\$12,600
	<b>Total Elution Costs</b>	<b>\$99,000</b>										
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	96	216	132	72	108	96	60	168	96	108	168
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs	\$134	\$301	\$184	\$100	\$151	\$134	\$84	\$234	\$134	\$151	\$234
	Subtotal Well Injection Costs per Wellfield	\$7,334	\$16,501	\$10,084	\$5,500	\$8,251	\$7,334	\$4,584	\$12,834	\$7,334	\$8,251	\$12,834
	Total Well Injection	\$100,841										
	<b>Total : Elution &amp; Deep Well</b>	<b>\$199,841</b>										
<b>V. Monitoring and Sampling Costs</b>												
A. Active Restoration Period												
	Estimated Restoration Period (Years)	2	2	2	2	2	2	2	2	2	2	2
1. UCL Sampling												
	# of Wells	49	51	43		55	36		108	60	61	93
	\$/sample	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50
	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	\$55,800
B. Stability Period												
	Estimated Stabilization Period (Years)	1	1	1		1	1		1	1	1	1
1. Full Suite Analyses (Guideline 8)												
	# of Wells	17	31	24		20	10		61	34	34	56
	Samples/Year	3	3	3		3	3		3	3	3	3
	\$/sample	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
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	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70
	Sub-total Stability Analyses	\$20,910	\$38,130	\$29,520	\$70	\$24,600	\$12,300	\$70	\$75,030	\$41,820	\$41,820	\$68,880
	Subtotal Monitoring and Sampling Costs per Wellfield	\$50,310	\$68,730	\$55,320		\$57,600	\$33,900		\$139,830	\$77,820	\$78,420	\$124,680
	<b>Total Monitoring and Sampling Costs</b>	<b>\$686,610</b>										
<b>VI. Mechanical Integrity Test (MIT) Costs</b>												
	Five Year MIT Unit Cost (\$/well)	\$188	\$188	\$188	\$188	\$188	\$188	\$188	\$188	\$188	\$188	\$188
	Number of Wells (30% of Inj. and Rest. Wells)	63	79	75		66	53		151	47	77	137
	Subtotal Mechanical Integrity Testing Costs per Wellfield	\$11,855	\$14,790	\$14,169		\$12,363	\$9,879		\$28,338	\$8,750	\$14,395	\$25,685
	<b>Total Mechanical Integrity Testing Cost</b>	<b>\$140,224</b>										
<b>TOTAL RESTORATION COSTS PER WELLFIELD</b>		\$401,572	\$838,992	\$553,207	\$240,112	\$475,665	\$381,313	\$207,313	\$757,841	\$419,300	\$490,296	\$770,399
<b>TOTAL WELLFIELD RESTORATION COST</b>		<b>\$5,536,010</b>										
<b>VII. Building Utility Costs</b>		Central Plant	Main Office	Satellite SR-1	Satellite SR-2							
	Electricity (\$/Month)	\$8,500	\$1,825	\$8,500	\$8,500							
	Number of Months	48	60	36	36							
	Subtotal Utility Costs per Building	\$408,000	\$109,500	\$306,000	\$306,000							

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<b>Total Building Utility Costs</b>		<b>\$1,129,500</b>										
<b>VIII. Vehicle Operation Costs</b>												
Number of Pickup Trucks/Pulling Units (Gas)		10										
Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)		\$20.21										
Average Operating Time (Hrs/Year)		1000										
Total Number of Years (Average)		4										
<b>Total Vehicle Operation Costs</b>		<b>\$808,400</b>										
<b>IX. Labor Costs</b>												
Number of Environmental Managers/RSOs		1										
\$/Year MV		\$100,000										
Number of Restoration Managers		1										
\$/Year MV		\$80,000										
Number of Environmental Technicians		2										
\$/Year MV		\$34,000										
Number of Operators/Laborers		7										
\$/Year MV		\$34,000										
Number of Maintenance Technicians		2										
\$/Year MV		\$34,000										
Number of Years		4										
<b>Total Labor Costs</b>		<b>\$2,216,000</b>										
<b>IX. Capital Costs</b>												
Purchase RO Units (1X400 gpm Units)		\$600,000										
<b>Total Capital Costs</b>		<b>\$600,000</b>										
<b>TOTAL GROUND WATER RESTORATION COSTS</b>		<b>\$10,289,910</b>										

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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
<b>I. Removal and Loading Costs</b>								
<b>A. Tankage</b>								
Number of Tanks	13	51	0	10	15	3	30	10
Volume of Tank Construction Material (ft <sup>3</sup> )	835	1340	300	397	260	164	1648	397
<b>1. Labor</b>								
Number of Persons	3	3	3	3	3	3	3	3
Ft <sup>3</sup> /Day	25	25	25	25	25	25	25	25
Number of Days	33	54	12	16	10	7	66	16
\$/Day/Person	\$136	\$136	\$136	\$136	\$136	\$136	\$136	\$136
Subtotal Labor Costs	\$13,668	\$21,923	\$4,908	\$6,544	\$4,254	\$2,683	\$26,963	\$6,544
<b>2. Equipment</b>								
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	\$24,963	\$40,040	\$8,964	\$11,952	\$7,769	\$4,900	\$49,244	\$11,952
<b>B. PVC/Steel Pipe</b>								
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 <sup>3</sup> /ft)	0.016	0.016	0.016	0.016	0.016	0.016	0	0.016
Volume of Shredded PVC Pipe (ft <sup>3</sup> )	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 <sup>3</sup> )	216	0	0	0	0	30	0	0
<b>1. Labor</b>								
Number of Persons	2	2	2	2	2	2	2	2
Ft <sup>3</sup> /Day	300	300	300	300	300	300	300	300
Number of Days	13	17	0	13	5	0	0	13
\$/Day/Person	\$136	\$136	\$136	\$136	\$136	\$136	\$136	\$136
Subtotal PVC/Steel Pipe Labor Costs	\$3,545	\$4,545	\$0	\$3,545	\$1,363	\$73	\$0	\$3,545
Subtotal PVC/Steel Pipe Removal and Loading Costs	\$3,545	\$4,545	\$0	\$3,545	\$1,363	\$73	\$0	\$3,545
<b>C. Pumps</b>								
Number of Pumps	21	43	0	13	12	2	0	13
Average Volume (ft <sup>3</sup> /pump)	4.93	4.93	0	4.93	4.93	4.93	4.93	4.93
Volume of Pumps (ft <sup>3</sup> )	103.53	211.99	0	64.09	59.16	9.86	0	64.09
<b>1. Labor</b>								
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	\$136	\$136	\$136	\$136	\$136	\$136	\$136	\$136
Subtotal Labor Costs	\$1,432	\$2,931	\$0	\$954	\$818	\$136	\$0	\$954
Subtotal Pump Removal and Loading Costs	\$1,432	\$2,931	\$0	\$954	\$818	\$136	\$0	\$954
<b>D. Dryer</b>								
Dryer Volume (ft <sup>3</sup> )			200					
<b>1. Labor</b>								
Number of Persons	0	0	5	0	0	0	0	0
Ft <sup>3</sup> /Day	0	0	175	0	0	0	0	0
Number of Days	0	0	2	0	0	0	0	0
\$/Day/Person	\$136	\$136	\$136	\$136	\$136	\$136	\$136	\$136
Total Labor Cost	\$0	\$0	\$1,363	\$0	\$0	\$0	\$0	\$0
Total Dryer Dismantling and Loading Cost	\$0	\$0	\$1,363	\$0	\$0	\$0	\$0	\$0
Subtotal Equipment Removal and Loading Costs per Facility	\$43,608	\$69,439	\$15,235	\$22,995	\$14,204	\$7,792	\$76,207	\$22,995
<b>Total Equipment Removal and Loading Costs</b>	<b>\$272,476</b>							
<b>II. Transportation and Disposal Costs (NRC-Licensed Facility)</b>								
<b>A. Tankage</b>								
Volume of Tank Construction Material (ft <sup>3</sup> )	835	1340	300	397	260	164	1648	397
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	919	1474	330	436	286	180	1813	436
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
Subtotal Tankage Transportation and Disposal Costs	\$11,331	\$18,174	\$4,069	\$5,376	\$3,526	\$2,219	\$22,354	\$5,376
<b>B. PVC / Steel Pipe</b>								
Volume of Shredded PVC Pipe (ft <sup>3</sup> )	44.8	80	0	64	24	0	0	64
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	49	88	0	70	26	0	0	70
Volume of Steel Pipe (ft <sup>3</sup> )	296	0	0	0	0	30	30	0
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	326	0	0	0	0	33	33	0
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
Subtotal PVC Pipe Transportation and Disposal Costs	\$4,624	\$1,085	\$0	\$863	\$321	\$407	\$407	\$863
<b>C. Pumps</b>								
Volume of Pumps (ft <sup>3</sup> )	103.53	211.99	0	64	59	9.86	0	64
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	114	233	0	70	65	11	0	70
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
Subtotal Pump Transportation and Disposal Costs	\$1,406	\$2,873	\$0	\$863	\$801	\$136	\$0	\$863
<b>D. Dryer</b>								
Dryer Volume (ft <sup>3</sup> )	0	0	400	0	0	0	0	0
Volume for Disposal Assuming Dryer Remains Intact (ft <sup>3</sup> )	0	0	400	0	0	0	0	0
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
Total Dryer Transportation and Disposal Costs	\$0	\$0	\$4,932	\$0	\$0	\$0	\$0	\$0
Subtotal Equipment Transportation and Disposal Costs per Facility	\$17,361	\$22,132	\$9,001	\$7,102	\$4,648	\$2,762	\$22,761	\$7,102
<b>Total Equipment Transportation and Disposal Costs</b>	<b>\$92,869</b>							
<b>III. Health and Safety Costs</b>								
Radiation Safety Equipment		Accounted for on BLDGS workbook, Section IV	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Health and Safety Costs</b>			\$0	\$0	\$0	\$0	\$0	\$0
<b>SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY</b>	<b>\$60,969</b>	<b>\$91,571</b>	<b>\$24,236</b>	<b>\$30,097</b>	<b>\$18,852</b>	<b>\$10,554</b>	<b>\$98,968</b>	<b>\$30,097</b>
<b>TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>	<b>\$365,345</b>							

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		CPP Ion Ex.	Central	Dryer	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water	DDW
Building Demolition and Disposal		Plant	Plant	Building	Building	Building	Plant	Building	Building	Pumphouse	Buildings
<b>I. Decontamination Costs</b>											
A.	Wall Decontamination										
	Area to be Decontaminated (ft <sup>2</sup> )	10,810	15,900	0	0	1,152	576	4,826	12,000	0	0
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59	\$0.59
	Subtotal Wall Decontamination Costs	\$6,382	\$9,387	\$0	\$0	\$680	\$340	\$2,849	\$7,085	\$0	\$0
B.	Concrete Floor Decontamination										
	Area to be Decontaminated (ft <sup>2</sup> )	11,550	16,500	3,500	0	1,678	839	7,028	17,477	0	0
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21
	Subtotal Concrete Floor Decontamination Costs	\$2,403	\$3,433	\$728	\$0	\$349	\$175	\$1,462	\$3,637	\$0	\$0
C.	Deep Well Injection Costs										
	Total Kgals for Injection	22.36	32.4	3.5	0	2.83	1.415	11.854	29.477	0	0
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs	\$31	\$45	\$5	\$0	\$4	\$2	\$17	\$41	\$0	\$0
	Subtotal Decontamination Costs per Building	\$8,816	\$12,865	\$733	\$0	\$1,033	\$517	\$4,328	\$10,763	\$0	\$0
	<b>Total Decontamination Costs</b>	<b>\$45,237</b>									
<b>II. Demolition Costs</b>											
A.	Building										
	Assumptions:										
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>3</sup> for additional radiation safety equipment										
	Volume of Building (ft <sup>3</sup> )	346,500	577,500	122,500	0	16,780	8,390	175,700	314,586	8,320	660.3
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
	Subtotal Building Demolition Costs	\$61,677	\$102,795	\$21,805	\$0	\$2,987	\$1,493	\$31,275	\$55,996	\$1,481	\$118
B.	Concrete Floor										
	Area of Concrete Floor (ft <sup>2</sup> )	11,550	16,500	3,500	0	1,678	839	7,028	17,477	832	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$3.40	\$3.40	\$3.40	\$3.40	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Subtotal Concrete Floor Demolition Costs	\$39,270	\$56,100	\$11,900	\$0	\$5,319	\$2,660	\$22,279	\$55,402	\$2,637	\$0
C.	Concrete Footing										
	Length of Concrete Footing (ft)	430	514	237	0	164	116	335	529	115	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs	\$5,253	\$6,279	\$2,892	\$0	\$2,002	\$1,416	\$4,098	\$6,462	\$1,405	\$0
	Subtotal Demolition Costs per Building	\$106,200	\$165,174	\$36,597	\$0	\$10,308	\$5,569	\$57,652	\$117,860	\$5,523	\$118
	<b>Total Demolition Costs</b>	<b>\$761,910</b>									
<b>III. Disposal Costs</b>											
A.	Building										
	Volume of Building (cy)	12833	21389	4537	0	621	311	6507	11651	308	24
I.	On-Site										
	Assumptions:										
	On-site disposal cost of \$1.25/cy										
	Percentage (%)	100	100	100	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)	12833	21389	4537	0	621	311	6507	11651	308	24
	Disposal Unit Cost (\$/cy)	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25
	Subtotal On-Site Disposal Costs	\$16,042	\$26,736	\$5,671	\$0	\$777	\$388	\$8,134	\$14,564	\$385	\$31





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				Satellite	Yellowcake	Satellite
<b>Building Demolition and Disposal</b>				SR-1	Warehouse	SR-2
<b>I. Decontamination Costs</b>						
A.	Wall Decontamination					
	Area to be Decontaminated (ft <sup>2</sup> )			0	3100	
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )			\$0.59	\$0.59	\$0.59
	Subtotal Wall Decontamination Costs			\$0	\$1,830	\$0
B.	Concrete Floor Decontamination					
	Area to be Decontaminated (ft <sup>2</sup> )			9000	2750	9000
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )			\$0.21	\$0.21	\$0.21
	Subtotal Concrete Floor Decontamination Costs			\$1,873	\$572	\$1,873
C.	Deep Well Injection Costs					
	Total Kgals for Injection			9	5.85	9
	Deep Well Injection Unit Cost (\$/Kgals)			\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs			\$13	\$8	\$13
	Subtotal Decontamination Costs per Building			\$1,886	\$2,410	\$1,886
<b>Total Decontamination Costs</b>						
<b>II. Demolition Costs</b>						
A.	Building					
	Assumptions:					
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>3</sup> for additional radiation safety equipment					
	Volume of Building (ft <sup>3</sup> )			402,000	55,000	402,000
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )			\$0.178	\$0.178	\$0.178
	Subtotal Building Demolition Costs			\$71,556	\$9,790	\$71,556
B.	Concrete Floor					
	Area of Concrete Floor (ft <sup>2</sup> )			13400	2750	13400
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )			\$3.05	\$3.05	\$3.05
	Subtotal Concrete Floor Demolition Costs			\$40,870	\$8,388	\$40,870
C.	Concrete Footing					
	Length of Concrete Footing (ft)			463	210	463
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )			\$12.22	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs			\$5,658	\$2,563	\$5,658
	Subtotal Demolition Costs per Building			\$118,084	\$20,741	\$118,084
<b>Total Demolition Costs</b>						
<b>III. Disposal Costs</b>						
A.	Building					
	Volume of Building (cy)			14889	2037	14889
	1.	On-Site				
	Assumptions:					
	On-site disposal cost of \$1.25/cy					
	Percentage (%)			100	100	100
	Volume for Disposal (cubic yards)			14889	2037	14889
	Disposal Unit Cost (\$/cy)			\$1.25	\$1.25	\$1.25
	Subtotal On-Site Disposal Costs			\$18,611	\$2,546	\$18,611



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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
<b>I.</b>	<b>Wellfield Piping</b>											
	Assumptions:											
		Number of Header Houses per Wellfield		6	5	8	6	5	13	4	5	13
		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	26000
	A. Removal and Loading											
		Wellfield Piping Removal Unit Cost (\$/ft of pipe)		\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42
		Subtotal Wellfield Piping Removal and Loading Costs		\$5,040	\$4,200	\$6,720	\$5,040	\$4,200	\$10,920	\$3,360	\$4,200	\$10,920
	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 <sup>3</sup> /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Chipped Volume per Wellfield (ft <sup>3</sup> )		60	50	80	60	50	130	40	50	130
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		66	55	88	66	55	143	44	55	143
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
		Subtotal Wellfield Piping Transport and Disposal Costs		\$814	\$678	\$1,085	\$814	\$678	\$1,763	\$543	\$678	\$1,763
		Wellfield Piping Costs per Wellfield		\$5,854	\$4,878	\$7,805	\$5,854	\$4,878	\$12,683	\$3,903	\$4,878	\$12,683
	C. Capitol Costs											
		Fiberglass/ poly / PVC Pipe Shredder (Operator Owned)		\$50,000								
		BFI Containers (2@\$7,800.00 each) (Operator Owned)		\$15,600								
		<b>Total Wellfield Piping Costs</b>		<b>\$129,016</b>								
<b>II.</b>	<b>Well Pumps and Tubing</b>											
	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	89	146	260
		Number of Injection Wells		210	262	251	219	175	502	155	255	455
	1. Pump Volume											
		Number of Production Wells with Pumps		69	88	87	74	61	151	53	88	156
		Average Pump Volume (ft <sup>3</sup> )		1	1	1	1	1	1	1	1	1
		Pump Volume per Wellfield (ft <sup>3</sup> )		69	88	87	74	61	151	53	88	156
	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	53	88	156
		Number of Injection Wells with Tubing		126	157	151	131	105	301	93	153	273
		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	69350	222925	396825
		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 <sup>3</sup> /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Chipped Volume per Wellfield (ft <sup>3</sup> )		463	1011	863	846	602	961	347	1115	1984

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	Volume of Pump and Tubing (ft <sup>3</sup> )		532	1099	950	920	663	1112	400	1203	2140
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		585	1209	1045	1012	729	1223	440	1323	2354
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
	Subtotal Pump and Tubing Transport and Disposal Costs		\$7,213	\$14,907	\$12,885	\$12,478	\$8,989	\$15,080	\$5,425	\$16,313	\$29,025
	Pump and Tubing Costs per Wellfield		\$7,213	\$14,907	\$12,885	\$12,478	\$8,989	\$15,080	\$5,425	\$16,313	\$29,025
	<b>Total Pump and Tubing Costs</b>		<b>\$122,315</b>								
<b>III.</b>	<b>Buried Trunkline</b>										
	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)		\$0.84	\$0.84	\$0.84	\$0.84	\$0.84	\$0.84	\$0.84	\$0.84	\$0.84
	Subtotal Trunkline Removal and Loading Costs		\$4,263	\$6,384	\$4,024	\$5,968	\$4,586	\$8,400	\$0	\$0	\$5,880
B.	Transport and Disposal Costs (NRC-Licensed Facility)										
	1. 1" Carbon Steel Trunkline										
	Piping Length (ft)							10000	0	0	0
	Volume (ft <sup>3</sup> )							218	0	0	0
	2. 1" HDPE Trunkline										
	Piping Length (ft)							10000	0	0	0
	Chipped Volume Reduction (ft <sup>3</sup> /ft)							0.005	0.005	0.005	0.005
	Chipped Volume (ft <sup>3</sup> )							50	0	0	0
	3. 3" HDPE Trunkline										
	Piping Length (ft)		5075	7600	4790	7105	5460	0	0	0	0
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
	Chipped Volume (ft <sup>3</sup> )		112	167	105	156	120	0	0	0	0
	4. 6" HDPE Trunkline										
	Piping Length (ft)		2410	10000	4820	3520	3800	20000	320	2288	12736
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
	Chipped Volume (ft <sup>3</sup> )		188	780	376	275	296	1560	25	178	993
	5. 8" HDPE Trunkline										
	Piping Length (ft)		4100		1100	2400	1840	0	4266	1104	2926
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	Chipped Volume (ft <sup>3</sup> )		615	0	165	360	276	0	640	166	439
	6. 10" HDPE Trunkline										
	Piping Length (ft)		0	5200	3660	2280	2400	0	1400	0	1910
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
	Chipped Volume (ft <sup>3</sup> )		0	1440	1014	632	665	0	388	0	529
	7. 12" HDPE Trunkline										
	Piping Length (ft)		1460	0	0	3210	2060	0	1080	0	4278
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
	Chipped Volume (ft <sup>3</sup> )		427.78	0	0	941	604	0	316	0	1253
	8. 14" HDPE Trunkline										
	Piping Length (ft)		740	0	0	0	0	0	3120	0	1800

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		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft <sup>3</sup> )	266	0	0	0	0	0	1120	0	646
	9.	16" HDPE Trunkline									
		Piping Length (ft)	1440	0	0	2800	820	0	0	2210	1110
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft <sup>3</sup> )	576	0	0	1120	328	0	0	884	444
	10.	18" HDPE Trunkline									
		Piping Length (ft)								2086	3630
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
		Chipped Volume (ft <sup>3</sup> )	0	0	0	0	0	0	0	1293	2251
		Total Trunkline Chipped Volume (ft <sup>3</sup> )	2184.07	2387.6	1660.16	3482.96	2288.9	1560	2489.18	2521.384	6555.632
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	2402	2626	1826	3831	2518	1716	2738	2774	7211
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
		Subtotal Trunkline Transport and Disposal Costs	\$29,617	\$32,379	\$22,515	\$47,236	\$31,047	\$21,158	\$33,760	\$34,203	\$88,912
		Trunkline Decommissioning Costs per Wellfield	\$33,880	\$38,763	\$26,539	\$53,204	\$35,633	\$29,558	\$33,760	\$34,203	\$94,792
		<b>Total Trunkline Decommissioning Costs</b>	<b>\$380,332</b>								
<b>IV.</b>	<b>Well Houses</b>										
		Total Quantity	315	408	396	343	276	392	244	401	715
		Average Well House Volume (ft <sup>3</sup> )	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
	A.	Removal									
		Total Volume (ft <sup>3</sup> )	585.9	758.88	736.56	637.98	513.36	729.12	453.84	745.86	1329.9
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
		Subtotal Well House Demolition Costs	\$104	\$135	\$131	\$114	\$91	\$130	\$81	\$133	\$237
	B.	Survey and Decontamination									
		Assumptions:									
		Cost per Well House	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97
		Subtotal Survey and Decontamination Costs	\$1,251	\$1,620	\$1,572	\$1,362	\$1,096	\$1,556	\$969	\$1,592	\$2,839
	C.	Disposal at NRC licensed Facility									
		Total Volume (cy)	22	28	27	24	19	27	17	28	49
		Volume for Disposal Assuming 10% Void Space (cy)	24	31	30	26	21	30	18	30	54
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
		Subtotal NRC Licensed Facility Disposal Costs	\$296	\$382	\$370	\$321	\$259	\$370	\$222	\$370	\$666
		Well House Removal and Disposal Costs per Wellfield	\$1,651	\$2,137	\$2,073	\$1,797	\$1,446	\$2,056	\$1,272	\$2,095	\$3,742
		<b>Total Well House Removal and Disposal Costs</b>	<b>\$18,269</b>								
<b>V.</b>	<b>Header Houses (Includes Booster Stations)</b>										
		Total Quantity	6	5	8	6	5	13	5	7	13
		Average Header House Volume (ft <sup>3</sup> )	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	A.	Removal									
		Total Volume (ft <sup>3</sup> )	75	62.5	100	75	62.5	162.5	62.5	87.5	162.5
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178

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<b>Wellfield Buildings and Equipment Removal and Disposal</b>		<b>Mine Unit-1</b>	<b>Mine Unit-2</b>	<b>Mine Unit-3</b>	<b>Mine Unit-4</b>	<b>Mine Unit-4A</b>	<b>Mine Unit-15</b>	<b>Mine Unit-15A</b>	<b>Mine Unit-K</b>	<b>Mine Unit-9</b>
	Subtotal Building Demolition Costs	\$13	\$11	\$18	\$13	\$11	\$29	\$11	\$16	\$29
<b>B.</b>	<b>Survey and Decontamination</b>									
	Assumptions:									
	Cost per Header House	\$312	\$312	\$312	\$312	\$312	\$312	\$312	\$312	\$312
	Subtotal Survey and Decontamination Costs	\$1,870	\$1,558	\$2,493	\$1,870	\$1,558	\$4,051	\$1,558	\$2,181	\$4,051
<b>C.</b>	<b>Disposal</b>									
	Total Volume (cy)	3	2	4	3	2	6	2	3	6
	Volume for Disposal Assuming 10% Void Space (cy)	3	3	4	3	3	7	3	4	7
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
	Subtotal On-Site Disposal Costs	\$19	\$19	\$26	\$19	\$19	\$45	\$19	\$26	\$45
	Header House Removal and Disposal Costs per Wellfield	\$1,902	\$1,588	\$2,537	\$1,902	\$1,588	\$4,125	\$1,588	\$2,223	\$4,125
	<b>Total Header House Removal and Disposal Costs</b>	<b>\$21,578</b>								
<b>TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD</b>		<b>\$50,500</b>	<b>\$62,273</b>	<b>\$51,839</b>	<b>\$75,235</b>	<b>\$52,534</b>	<b>\$63,502</b>	<b>\$45,948</b>	<b>\$59,712</b>	<b>\$144,367</b>
<b>TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>		<b>\$671,510</b>								

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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
<b>I.</b>	<b>Well Abandonment (Wellfields)</b>										
	# of Production Wells	115	146	145	Wells included under	124	101	251	89	146	260
	# of Injection Wells	210	262	251		219	175	502	155	255	455
	# of Monitoring Wells	49	50	40		51	39	105	61	56	93
	Total Number of Wells	374	458	436		394	315	858	305	457	808
	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)	\$339	\$376	\$365		\$376	\$365	\$333	\$333	\$333	\$376
	Subtotal Abandonment Cost per Wellfield	\$126,663	\$172,103	\$159,214		\$148,053	\$115,029	\$286,031	\$101,678	\$152,350	\$303,622
	<b>Total Wellfield Abandonment Costs</b>	<b>\$1,564,743</b>									
<b>II.</b>	<b>Waste Disposal Well Abandonment</b>	DDW#1	DDW#2	SW DDW							
	A. Well Plugging										
	All lump sum costs										
	Subtotal Well Plugging Costs per Well - based on current DDW Permit	\$71,342	\$71,342	\$56,509							
	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	\$136	\$136	\$136							
	Subtotal Dismantling and Decon Costs per Well	\$1,091	\$1,091	\$1,091							
	C. Tubing String Disposal (NRC-Licensed Facility)										
	Length of Tubing String (ft)	10100	10100	8000							
	Diameter of Tubing String (inches)	2.875	2.875	2.875							
	Volume of Tubing String (ft <sup>3</sup> )	455	455	360							
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.33	\$12.33	\$12.33							
	Subtotal Tubing String Disposal Costs per Well	\$5,611	\$5,611	\$4,445							
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$78,044	\$78,044	\$62,044							
	<b>Total Waste Disposal Well Abandonment Costs</b>	<b>\$218,132</b>									
	<b>TOTAL WELL ABANDONMENT COSTS</b>	<b>\$1,782,875</b>									



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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		
<b>I. Wellfield Pattern Area, Laydown Area, and Road Reclamation</b>													
	Area (acres)	27.1	53.2	38.7	18.0	31.4	29.6	59.0	18.0	23.0	59.0		
	Disking/Seeding Unit Cost (\$/acre)	\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280		
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs	\$7,588	\$14,907	\$10,842	\$5,040	\$8,800	\$8,288	\$16,520	\$5,040	\$6,440	\$16,520		
	<b>Total Wellfield Area Reclamation Costs</b>	<b>\$99,985</b>											
<b>II. Satellite Area Reclamation</b>		SR-1	SR-2										
<b>Assumptions:</b>													
	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										
	<b>A. Ripping Overburden with Dozer</b>												
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$814.22	\$814.22										
	Subtotal Ripping Costs	\$1,669	\$2,443										
	<b>B. Topsoil Application with Scraper</b>												
	Volume of Topsoil Removed (cy)	3307	4840										
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$0.71	\$0.71										
	Subtotal Topsoil Application Costs	\$2,348	\$3,436										
	<b>C. Discing and Seeding</b>												
	Discing/Seeding Unit Cost (\$/acre)	\$280	\$280										
	Subtotal Discing/Seeding Costs	\$574	\$840										
	Subtotal Surface Reclamation Costs per Satellite	\$4,591	\$6,719										
	<b>Total Satellite Building Area Reclamation Costs</b>	<b>\$11,310</b>											
<b>III. Surface Reclamation</b>		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		
	<b>A. Removal and disposal of contaminated soil around wells</b>												
	Volume of contaminated soil (0.37 yd3 per injection and production well - estimate)	120.25	150.96	146.52		126.91	102.12	278.61	90.28	148.37	264.55		
	Disposal of contaminated soil (\$/yd3) (As per Byproduct Material contract)	\$12.33	\$12.33	\$12.33		\$12.33	\$12.33	\$12.33	\$12.33	\$12.33	\$12.33		
	Equipment (Backhoe \$65/hr)	\$3,908.13	\$4,906.20	\$4,761.90	Wells accounted for in MU3	\$4,124.58	\$3,318.90	\$9,054.83	\$2,934.10	\$4,822.03	\$8,597.88		
	Labor (1 man-hour (\$17/hr) per 2 Yd3 - estimate)	\$1,022.13	\$1,283.16	\$1,245.42		\$1,078.74	\$868.02	\$2,368.19	\$767.38	\$1,261.15	\$2,248.68		
	Subtotal removal and disposal of contaminated soil	\$4,942.58	\$6,201.69	\$6,019.65		\$5,215.64	\$4,199.25	\$11,435.34	\$3,713.81	\$6,095.50	\$10,858.88		
	Total	\$58,682.34											
	<b>B. Disc and seeding</b>												
	Disc and seeding (est. \$280/acre)	\$280.00	\$280.00	\$280.00		\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00		
	Subtotal Recontour and Seeding	\$7,588.00	\$14,907.20	\$10,841.60		\$8,800.40	\$8,288.00	\$5,040.00	\$6,440.00	\$16,520.00	\$0.00		
	Total	\$78,425.20											
	<b>Total Surface Reclamation</b>	<b>\$137,108</b>											
	<b>Total</b>	<b>\$248,403</b>											



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Miscellaneous Reclamation									
		Surface Area (acres)			4.8	10.9	5.0	7.3	5.9
		Discing/Seeding Unit Cost (\$/acre)			\$280	\$280	\$280	\$280	\$280
		Subtotal Discing/Seeding Costs			\$1,330	\$3,052	\$1,400	\$2,036	\$1,639
		Subtotal Reclamation Costs per Access Road			\$13,435	\$30,192	\$11,273	\$16,156	\$13,003
		<b>Total Access Road Reclamation Costs</b>			<b>\$84,059</b>				
<b>III.</b>	<b>Trunk Lines</b>				<b>Trunk Line #1 (To MU-4)</b>	<b>Trunk Line #2 (To SR-1)</b>	<b>Trunk Line #3 (MU-15 to SR-1)</b>	<b>Trunk Line #4 (O-Sand Pilot)</b>	<b>Trunk Line to SR-2</b>
		Length of Trench (ft)			7750	8500	21250	5500	2500
	A.	Removal and Loading							
		Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.91	\$0.91	\$0.91	\$0.91	\$0.91
		Subtotal Trunkline Removal and Loading Costs			\$7,053	\$7,735	\$19,338	\$5,005	\$2,275
	B.	Transport and Disposal Costs (NRC-Licensed Facility)							
		1. 2" HDPE Trunkline							
		Piping Length (ft)			7750	42500	21250	22000	22000
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.005	0.005	0.005	0.005	0.005
		Chipped Volume (ft <sup>3</sup> )			38.75	212.5	106.25	110	110
		1. 3" HDPE Trunkline							
		Piping Length (ft)			0	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.022	0.022	0.022	0.022	0.022
		Chipped Volume (ft <sup>3</sup> )			0	0	0	0	0
		2. 6" HDPE Trunkline							
		Piping Length (ft)			7750	17000	42500	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.078	0.078	0.078	0.078	0.078
		Chipped Volume (ft <sup>3</sup> )			604.5	1326	3315	0	0
		3. 8" HDPE Trunkline							
		Piping Length (ft)			0	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.15	0.15	0.15	0.15	0.15
		Chipped Volume (ft <sup>3</sup> )			0	0	0	0	0
		3. 10" HDPE Trunkline							
		Piping Length (ft)			0	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.277	0.277	0.277	0.277	0.277
		Chipped Volume (ft <sup>3</sup> )			0	0	0	0	0
		4. 12" HDPE Trunkline							
		Piping Length (ft)			0	9000	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.293	0.293	0.293	0.293	0.293
		Chipped Volume (ft <sup>3</sup> )			0	2637	0	0	0
		5. 14" HDPE Trunkline							
		Piping Length (ft)			0	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft <sup>3</sup> )			0	0	0	0	0
		5. 16" HDPE Trunkline							
		Piping Length (ft)			15500	11000	21120	15500	15500
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft <sup>3</sup> )			6200	4400	8448	6200	6200
		6 18" HDPE Trunkline							
		Piping Length (ft)			0	31500	0	0	2320
		Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.47	0.47	0.47	0.47	0.47
		Chipped Volume (ft <sup>3</sup> )			0	14805	0	0	1090
		Total Pipeline Disposal Volume			6804.5	23168	11763	6200	7290.4
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			7485	25485	12939	6820	8019
		Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft <sup>3</sup> )			\$12.33	\$12.33	\$12.33	\$12.33	\$12.33
					\$92,290	\$314,230	\$159,538	\$84,091	\$98,874
	C.	Discing/Seeding							
		Assumptions:							
		Width of Pipeline Trench (ft)			4	4	4	4	4
		Area of Pipeline Trench (acres)			0.7	0.8	2.0	0.5	0.2
		Discing/Seeding Unit Cost (\$/acre)			\$280	\$280	\$280	\$280	\$280
		Subtotal Discing/Seeding Costs			\$199	\$219	\$546	\$141	\$64
		Subtotal Reclamation Costs per Pipeline			\$99,542	\$322,184	\$179,422	\$89,237	\$101,213
		<b>Total Pipeline Reclamation Costs</b>			<b>\$791,598</b>				
<b>IV.</b>	<b>Settling Basin/ Evap. Pond Reclamation</b>				<b>Evaporation Pond</b>	<b>Settling Pond</b>			
	A.	Soil Sampling and Monitoring							
		Number of Soil Samples			0	15			
		\$/Sample			\$50	\$50			
		Subtotal Soil Sampling and Monitoring Costs			\$0	\$750			

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<b>Miscellaneous Reclamation</b>									
<b>B. Liner/Subsoil Removal and Disposal</b>									
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 <sup>2</sup> ) 20000 108864									
1. Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)									
Volume of Clay Liner (cy) 65 0									
Clay Liner Removal and Loading Unit Cost (\$/cy) \$3.63 \$3.63									
Subtotal Liner Removal and Loading Costs \$235 \$0									
2. Transportation and Disposal									
Volume of Clay Liner (ft <sup>3</sup> ) 1755 0									
Volume of Geotextile Liner (ft <sup>3</sup> ) 50 0									
Volume of Geotextile Liner @ 40% void (ft <sup>3</sup> ) 83 0									
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> ) (As per byproduct material contract) \$12.33 \$12.33									
Subtotal Liner Transportation and Disposal Costs \$22,667 \$0									
Subtotal Liner Removal and Disposal Costs \$22,902 \$0									
<b>C. Grade and Contour</b>									
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									
Subtotal Grade and Contour Costs \$681 \$12,983									
<b>C. Topsoil Application</b>									
Assumptions:									
Area of surface disturbance (ft <sup>2</sup> ) 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) \$1.12 \$1.12									
Subtotal Topsoil Application Costs \$832 \$4,529									
<b>D. Discing/Seeding</b>									
Assumptions:									
Area of surface disturbance (acres) 0.5 2.5									
Discing/Seeding Unit Cost (\$/acre) \$280 \$280									
Subtotal Discing/Seeding Costs \$140 \$700									
Subtotal Reclamation Costs per Pond \$24,555 \$18,962									
<b>Total Settling Basin/Evap. Ponds Reclamation Costs \$43,518</b>									
<b>V. Miscellaneous Structures</b>									
<b>A. Potable Water Wells</b>									
Total Depth (ft) (5- 5-inch Diameter Wells, @ 750 ft) 3,750									
Well Abandonment Unit Cost (\$/100 ft) - per State Engineers Office \$63.10									
Subtotal Potable Water Wells Abandonment Costs \$2,366.25									
<b>B. Fuel Area</b>									
Concrete Floor									
Area of Concrete Floor (ft <sup>2</sup> ) 375									
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>2</sup> ) \$3.40									
Subtotal Concrete Floor Demolition Costs \$1,275									
Concrete Footing									
Length of Concrete Footing (ft) 77									
Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft) \$12.22									
Subtotal Concrete Footing Demolition Costs \$947									
Subtotal Fuel Area Costs \$2,222									
<b>Total Miscellaneous Structures Reclamation Costs \$4,588.25</b>									
<b>TOTAL MISCELLANEOUS RECLAMATION COSTS \$1,000,120</b>									

## CLAY LINER REMOVAL AND LOADING

### Clay Liner Removal and Loading Cost

Labor =	17 per hour		Based on current labor rates
Trackhoe =	\$ 1,125.00 per week or	\$ 28.13 per hour	All Inclusive, based on current rental rates
Belly Dump with Operator =	\$ 100.00 per hour		Based on current contractor pricing
Belly Dump Size =	20 cubic yards		
Disposal Rate =	40 yards/hour		Estimate based on experience
<b>TOTAL REMOVAL AND LOADING</b>	<b>\$ 3.63 per cubic yard</b>		

## WELLFIELD BUILDING REMOVAL AND DEMO

### Cost per Well Head Cover

Env. Scanner =	17 per hour	Based on current labor rates
Operator =	17 per hour	Based on current labor rates
Total Wellhead Covers =	2300	
HCl 35% Cost =	\$ 0.137 per pound	Based on current Univar costs for bulk HCl - April 2007
Acid Usage Rate =	4.1 pounds per wellhead cover	Estimate based on experience
Acid Unit Cost =	\$ 0.56 per wellhead cover	
Total Labor Rate =	\$ 39.70 per hour	
Cleaning Rate	10 wellheads per hour	Estimate based on experience
<b>Survey / Decon.</b>	<b>\$ 3.97 per wellhead cover</b>	

### Cost per Header House

Env. Scanner =	17 per hour	Based on current labor rates
Operator =	17 per hour	Based on current labor rates
Number of Operators =	2	Based on experience
HCl 35% Cost =	\$ 0.137 per pound	Based on current Univar costs for bulk HCl - April 2007
Acid Usage Rate =	20 pounds per header house	Estimate
Acid Unit Cost =	\$ 2.74 per header house	
Total Labor Rate =	\$ 311.64 per hour	
Cleaning Rate	1 header house per day	Estimate based on experience
<b>Survey / Decon.</b>	<b>\$ 311.64 per header house</b>	

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<b>ACID WASH</b>							
Current acid cost is \$275/ ton or .1375per lb.							
Commercial Concentrated acid is 37%							
Assume a 10% wash solution the price of the wash solution is \$.012 per gallon							
Assume that .25 gallon of acid wash is used per sq ft. to clean walls.							
Assume that 1 gallon of acid wash is used per sq ft. to clean floors.							
Using the square footage supplied in the bond the following assumptions were used to generate the cost per square ft multiplier.							
Using the CPP IX and Plant square footages the assumption is as follows							
<b>Acid Wash (Walls)</b>							
Labor	2	Men		Bond CPP IX and CPP sq. footage			
Rate	\$17	hr.					
Time	20	8hr. Days					
Man Lift Rental	\$8,900.00	Month					
Labor Cost per sq. ft.	\$0.54						
Acid	\$0.003						
Consumables	\$0.05						
Total	\$0.59						
<b>Acid Wash (Floors)</b>							
Labor	2	Men		Bond CPP IX and CPP sq. footage			
Rate	\$17	hr.					
Time	15	8hr. Days					
Labor Cost per sq. ft.	\$0.15						
Acid	\$0.01						
Consumables	\$0.05						
Total	\$0.21						

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<b>RADIUM TREATMENT</b>				
<b>HUP SURETY ONLY</b>				
<b>Assumptions:</b>				
1.	Based on actual operating costs			
<b>Radium Treatment Costs per 1000 Gallons</b>				
	Chemical	= \$	0.177	
	Filtration	= \$	0.021	
	Electricity	= \$	0.048	
	By Product Disposal of Sludge	= \$	0.097	
<b>TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS</b>		<b>= \$</b>	<b>0.34</b>	



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<b>GROUNDWATER SWEEP (GWS)</b>										
<b>Assumptions:</b>										
1.	All pumps are 5 hp pumping at 5.0 gpm									
2.	Cost of electricity from Recurring Cost Sheet									
3.	All water pumped is disposed at WDW with a 20 hp pump									
4.	Repair and maintenance costs estimated at \$0.50/1000 gallons, Operator Experience									
5.	Process sampling and analysis costs estimated at \$0.03/1000 gallons, Operator Experience									
6.	Labor costs are not included									
<b>Wellfield Pumping Costs per 1000 Gallons</b>										
	1000 gal	X	$\frac{5 \text{ hp}}{5 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.048}{\text{kwh}}$	= \$ 0.60
<b>Pumping to WDW Costs per 1000 Gallons</b>										
	1000 gal	X	$\frac{75 \text{ hp}}{200 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.048}{\text{kwh}}$	= \$ 0.22
<b>Repair and Maintenance Costs per 1000 Gallons</b>									= \$ 0.5	
<b>Process Sampling and Analysis Costs per 1000 Gallons</b>									= \$ 0.03	
<b>TOTAL GWS COSTS PER 1000 GALLONS</b>									<b>= \$ 1.35</b>	

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<b>REVERSE OSMOSIS (RO)</b>									
<b>Assumptions:</b>									
1.	Cost of electricity from Recurring Cost Sheet								
2.	75% permeate/25% reject split								
3.	Membrane life of 5 years with a cost of \$700 per membrane element								
4.	Includes cost of pumping from wellfield to RO Unit								
5.	Process sampling and analysis costs estimated at \$0.03/1000 gallons - Operator Experience								
6.	Labor costs are not included								
<b>Reverse Osmosis Costs per 1000 Gallons</b>					<b>Chemical Costs</b>				
	Electricity				= \$	0.48			
	Chemicals				= \$	\$0.13	Scale Inhibitor	\$2.00	\$/lb
	Membrane Replacement				= \$	\$0.06	Dose Rate	6.75	ppm
	Repair and Maintenance				= \$	0.26	RO Flow	400	gpm
	Process Sampling and Analysis				= \$	0.03			
							lbs scale/1000gal	0.056330727	
<b>TOTAL RO COSTS PER 1000 GALLONS</b>					<b>= \$</b>	<b>0.96</b>			
							Cost per 1000 gal	\$0.11	
							Cleaning Chemicals	0.02	
							Total Chemical Cost	\$0.13	
							<b>Membrane Replacement</b>		
							For 400gpm RO	400	
							Number of membranes	96	
							Cost per Membrane	\$600.00	
							Years of Life	5	
							Labor to Change Membrane	\$480.00	
							Cost per 1000 gal	\$0.06	



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<b>CHEMICAL REDUCTANT</b>												
<b>Assumptions:</b>												
1.	Bioremediation is utilized											
2.	Based on actual operating costs during restoration activities											
3.	Added the cost of using cheese whey											
<b>TOTAL CHEMICAL REDUCTANT COSTS PER Kgal</b>											<b>= \$ 0.30</b>	

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<b>ELUTION PROCESSING</b>																				
<b>Assumptions:</b>																				
1.	Based on actual operating costs																			
<b>TOTAL PROCESSING COSTS PER ELUTION</b>										<b>= \$</b>	<b>900</b>									

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<b>DEEP WELL INJECTION</b>												
<b>Assumptions:</b>												
1.	Pump 150 hp pumping at 100 gpm											
2.	Cost of electricity from Recurring Cost Sheet											
3.	Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year											
4.	Repair and maintenance costs estimated at \$.50/1000 gallons, Operator Experience											
5.	Chemical costs based on average injection volume of 8,000,000 gallons per year											
6.	Labor costs are not included											
<b>Waste Disposal Pumping Costs per 1000 Gallons</b>												
	1000 gal	X	150 hp	X	1 hr	X	0.746 kwh	X	\$ 0.048	=	\$ 0.90	
			100 gpm		60 min		hp		kwh			
<b>Repair and Maintenance Costs per 1000 Gallons</b>										=	\$ 0.5	
<b>TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS</b>										=	<b>\$ 1.40</b>	

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WELL ABANDONMENT									
<b>Assumptions:</b>									
1	<b>Typical 8 hour working day</b>								
2	Trackhoe for 8.0 hr/day to dig and reclaim pit								
3	Use hose reel for 8 hr/day to pull equipment from well								
4	Use cementer for 8.0 hr/day to pump cement/plug gel								
5	Use tow vehicle for 8.0 hr/day to tow hose reel and cementer								
6	Labor for backhoe, hose reel, cementer will require 3 workers at 8.0 hr/day								
Materials include 7.5 sacks of cement/100 ft and 1 sack of plug gel/100 ft of 5" well casing.									
Cost of cement is \$7.62 and plug gel cost is \$6.45/sack.									
Cement costs for 2007 = GCC Dakota Cement; Plug gel costs for 2007 = Casper Well Products									
<u>Fixed Costs</u>									
Trackhoe									
	8 hours	X	\$ 28.13	per hour		=	\$ 225.00		
Hose Reel/Tow Vehicle									
	8 hours	X	\$ 45	per hour		=	\$ 360.00		
Cementer									
	8 hours	X	\$ 45	per hour		=	\$ 360.00		
Tow Vehicle									
	8 hours	X	\$ 45	per hour		=	\$ 360.00		
Labor									
3 men=	24 man	X	\$ 17	per man		=	\$ 409.02		
	hours			hour					
Total Fixed Costs per 8.0 hr/day							=	\$ 1714.02	
<u>Variable Costs</u> (per 100 ft of well depth)									
Materials									
	7.5 sack cement	X	\$ 7.62	per sack		=	\$ 57.15		
	per 100 feet								
	1 sack plug gel	X	\$ 6.45	per ho		=	\$ 6.45		
	per 100 feet			plug					





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<b>FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)</b>									
<b>Assumptions:</b>									
1	Pulling Unit for 8.0 hr/day per Recurring Cost Sheet								
2	MIT Unit for 8.0 hr/day per Recurring Cost Sheet								
3	Labor for operation of pulling unit will require 2 workers at \$17/hr								
4	Labor for operation of MIT Unit will require 1 worker at \$17/hr								
5	Average wells plugged per day is 6								
<b>MIT Costs per Well</b>									
<b>Equipment:</b>									
	Pulling Unit								
	8	hours	X	\$ 45	per hour				= \$ 360.00
	MIT Unit								
	8	hours	X	\$ 45	per hour				= \$ 360.00
<b>Labor:</b>									
	Pulling Unit								
	8	hours	X	\$ 17.04	per hour	X	2	workers	= \$ 272.68
	MIT Unit								
	8	hours	X	\$ 17.04	per hour				= \$ 136.34
<b>TOTAL MIT COST PER DAY</b>									<b>= \$ 1129.00</b>
	Wells Completed			6	per day				
<b>MIT COSTS PER WELL</b>									<b>= \$ 188.17</b>

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<b>MAIN PIPELINE REMOVAL</b>									
<b>Assumptions:</b>									
1.	Trenching with trackhoe at 750 ft/day								
2.	Pipeline extraction and backfilling with trackhoe at 750 ft/day								
3.	Trackhoe rental: \$1,125/week all inclusive fuel, maintenance, mob								
5.	Trackhoe operation requires 1 worker at \$17/hour								
6.	Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)								
7.	Pipelines removed simultaneously								
8.	Includes removal of manholes								
9.	Operating schedule: 8 hrs/day, 5 days/week								
<b>Main Pipeline Removal Costs per ft of Trench</b>									
<b>Equipment</b>									
<b>Trackhoe</b>									
	\$ 1125		1 week		1 days		=	\$ 0.30	
	week	X	5 days		750 ft	X			
<b>Labor</b>									
<b>Trackhoe Operation</b>									
	\$ 17		8 man hrs		1 days		=	\$ 0.18	
	man hr	X	1 day		750 ft	X			
<b>Pipeline Extraction</b>									
	\$ 17		16 man hrs		2 day		=	\$ 0.36	
	man hr	X	1 day		750 ft	X			
<b>MAIN PIPELINE REMOVAL COST PER FT OF TRENCH = \$ 0.84</b>									

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<b>WELLFIELD PIPING REMOVAL</b>						
<b>Assumptions:</b>						
1.	Trenching with backhoe at 1500 ft/day					
2.	Pipeline extraction and backfilling with backhoe at 1500/day					
3.	Backhoe rental: \$1,125/week, all inclusive fuel, maintenance, mob					
4.	Backhoe operation requires 1 worker at \$17/hour					
5.	Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)					
6.	Operating schedule: 8 hrs/day, 5 days/week					
<b>Main Pipeline Removal Costs per ft of Pipe</b>						
<b>Equipment</b>						
<b>Backhoe</b>						
	\$ 1125		1 week		1 days	=\$ 0.15
	week	X	5 days	X	1500 ft	
<b>Labor</b>						
<b>Backhoe Operation</b>						
	\$ 17		8 man hrs		1 days	=\$ 0.09
	man hr	X	1 day	X	1500 ft	
<b>Pipeline Extraction</b>						
	\$ 17		16 man hrs		1 day	=\$ 0.18
	man hr	X	1 day	X	1500 ft	
<b>MAIN PIPELINE REMOVAL COST PER FT OF PIPE</b>						<b>=\$ 0.420</b>

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<b>WELLFIELD ROAD RECLAMATION</b>									
<b>Assumptions (Roads constructed before January 1, 1997):</b>									
1. Gravel road base removed at cost of \$0.86/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 \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
4. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
5. Topsoil applied at cost of \$0.86/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 \$280/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	$\frac{\$0.87}{\text{cy}}$	= \$ 80
Scarification Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$41.87}{\text{acre}}$	= \$ 24
Grading Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$45.65}{\text{acre}}$	= \$ 26
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	$\frac{\$0.87}{\text{cy}}$	= \$ 537
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$280}{\text{acre}}$	= \$ 161
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( BEFORE JANUARY 1, 1997) = \$ 828</b>									
<b>Assumptions (Roads constructed after January 1, 1997):</b>									
1. Gravel road base will not be removed									
2. Roads scarified prior to topsoil application at cost of \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
3. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
4. Topsoil applied at cost of \$0.86/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 \$280/acre is based on actual contractor costs									
Scarification Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$41.87}{\text{acre}}$	= \$ 19
Grading Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$45.65}{\text{acre}}$	= \$ 21
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	$\frac{\$0.87}{\text{cy}}$	= \$ 257
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$280}{\text{acre}}$	= \$ 129
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( AFTER JANUARY 1, 1997) = \$ 426</b>									

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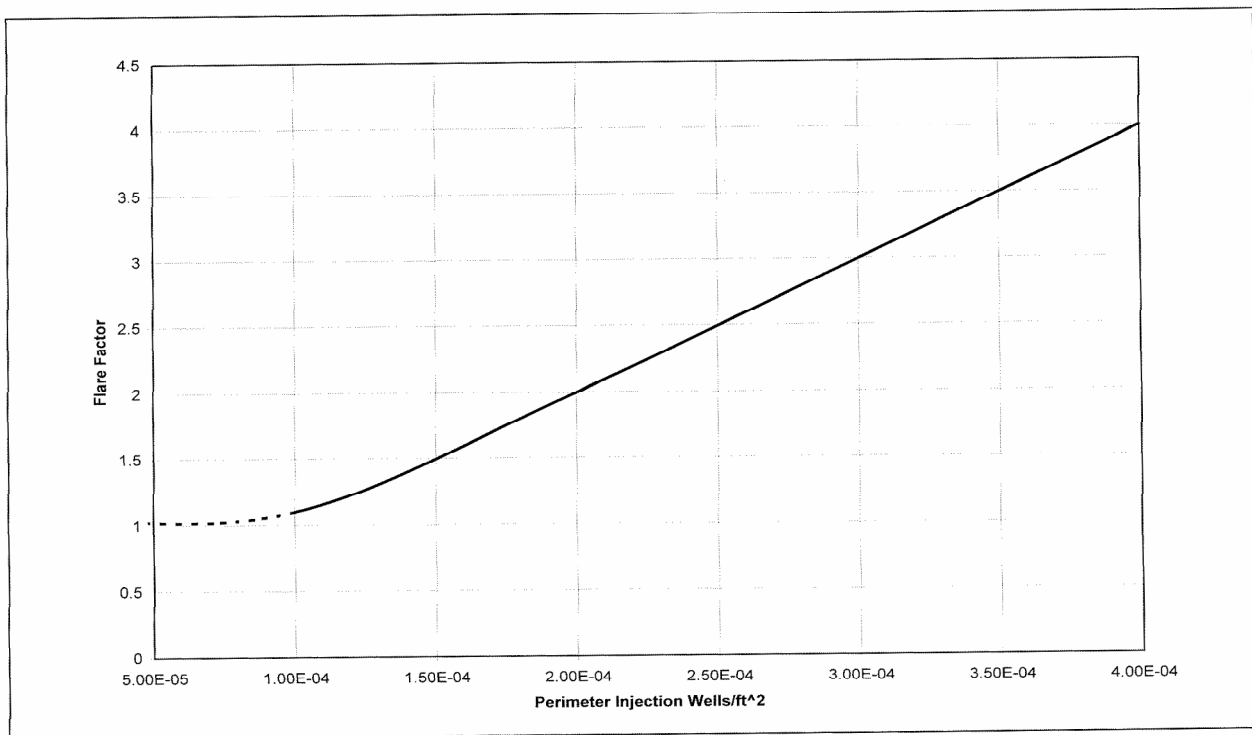
<b>DISKING/SEEDING</b>									
<b>Assumptions:</b>									
1. Based on actual contractor costs in 2007									
2. Drill Seeding \$250/Acre - based on contractor estimate 6/2007									
3. Seed cost \$30/Acre - Based on 5/07 seed costs at SRHUP									
<b>TOTAL DISKING/SEEDING COSTS PER ACRE</b>						<b>= \$ 280.00</b>			

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**FLARE FACTOR CALCULATION**

**Assumptions:**

1. Flare Factor Conservatively Estimated from Figure 3-16, Lewis Water Consultants, Inc., Oct. 1999 (below)
2. Number of Perimeter Injection Wells per sq.ft. estimated from wellfield spacing, total area, and perimeter area



**RAMC Smith Ranch Facility**

Figure 3-16. Predicted wellfield flare factor for RAMC commercial wellfields, as a function of wellfield scale

Date:	9/14/99
Project:	RAMC Wellfield Evaluation
File:	land.ppt

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PORE VOLUME AND RESTORATION TIMING CALCULATION						
<b>Assumptions:</b>						
1. Pore Volumes required for wellfield resoration are conservatively estimated from Table 3-2, Lewis Water Consultants, Inc., Oct. 1999 (below)						
2. Restoration Target is Return to Class of Use, Class I Groundwater (WDEQ)						
3. Conservatively Assumes 1PV groundwater sweep, 3PVs RO with Reductant added to final 2 PVs of RO stream (4PV's total )						
4. Restoration Timing is conservatively estimated at 2 years for all wellfields based on 400 gpm sweep rate and largest wellfield affected volume (Wellfield 15) at Smith Ranch.						
<b>Table 3-2. Predicted Wellfield 1 Restoration Timing</b>						
	Restoration Target	Number of	Time Required	Restoration Target	Number of	Time Required
Constituent	(Background)	Pore Volumes	to Meet Target	(Class of use <sup>a</sup> )	Pore Volumes	to Meet Target
		to Meet Target	(Baseline), days		to Meet Target	(Class-of-Use)days
U	0.168	3.2	150	5	1.8	86
Se	0.001	3.2	150	0.01	2.3	109
Cl	4.176	4.4	210	250	0	0
SO <sub>4</sub>	113.125	3.8	179	250	2.5	117
HCO <sub>3</sub>	228.194	2.3	109	na	na	na
Ca	72.617	3.8	179	na	na	na
Na	22.525	3.2	150	na	na	na
As	0.001	3.0	141	0.05	0	0
B	0.100	3.2	150	0.75	0	0
Fe	0.065	0	0	0.3	0	0
Mn	0.022	4.4	210	0.05	3.4	160
Mg	17.364	3.2	150	na	na	na
K	7.269	3.2	150	na	na	na
F	0.322	3.2	150	2.4	na	na
SiO <sub>2</sub>	16.975	3.2	150	na	na	na
Zn	0.010	3.2	150	5	0	0
<sup>a</sup> -- standards listed are for Wyoming Class I ground water, although baseline wellfield ground water does not meet this standard due to excessive radium.						

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Abbreviations/Acronyms					
\$	Dollars				
\$/Kgal	Dollars per 1000 gallons				
avg	average				
ft	feet				
ft <sup>2</sup>	square feet				
ft <sup>3</sup>	cubic feet				
gal	gallon				
gpm	gallons per minute				
H&S	Health and Safety				
H <sub>2</sub> S	Hydrogen Sulfide				
H <sub>2</sub> SO <sub>4</sub>	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 <sup>3</sup>	cubic yards				
yr	year				