



POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
SURETY ESTIMATE  
FIRST YEAR OF OPERATION

<b>Ground Water Restoration</b>				<b>Mine Unit-1</b>
PV Assumptions				
	Wellfield Area (ft2)			1,050,576
	Wellfield Area (acres)			24.1
	Affected Ore Zone Area (ft2)			1,050,576
	Avg. Completed Thickness			17
	Porosity			0.27
	Flare Factor			1.5
	Affected Volume (ft3)			26,789,688
	Kgallons per Pore Volume			54,104
Number of Patterns in Unit(s)				
	Current			101
	Estimated next report period			0
	Total Estimated			101
Number of Wells in Unit(s)				
Production Wells				
	Current			101
	Estimated next report period			0
	Total Estimated			101
Injection Wells				
	Current			175
	Estimated next report period			0
	Total Estimated			175
Monitoring Wells				
	Current			38
	Estimated next report period			0
	Total Estimated			38
	Number of Wells per Wellfield			314
	Total Number of Wells			
	Average Well Depth (ft)			750
<b>I. Ground Water Sweep Costs</b>				
	PV's Required			1
	Total Kgals for Treatment			54,104
	Ground Water Sweep Unit Cost (\$/Kgal)			\$1.35
	<b>Total Ground Water Sweep Costs</b>			<b>\$73,073</b>
<b>II. Reverse Osmosis Costs</b>				
	PV's Required			4
	Total Kgals for Treatment			216,418
	Reverse Osmosis Unit Cost (\$/Kgal)			\$0.60
	<b>Total Reverse Osmosis Costs</b>			<b>\$129,418</b>
<b>III. Chemical Reductant Costs</b>				
	Total Kgals for Treatment (2 Pore Volumes)			108209
	Chemical Reductant Unit Cost (\$/Kgal)			\$0.32

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<b>Ground Water Restoration</b>				<b>Mine Unit-1</b>
<b>Total Chemical Reductant Costs</b>				<b>\$34,627</b>
<b>V. Monitoring and Sampling Costs</b>				
A. Active Restoration Period				
Estimated Restoration Period (Years)				5
1. UCL Sampling				
# of Wells				36
\$/sample				\$50
Samples/Year				6
Sub-total Restoration Analyses				\$54,000
B. Stability Period				
Estimated Stabilization Period (Years)				1
1. Full Suite Analyses				
# of Wells				10
Samples/Year				3
\$/sample				\$200
2. Short List Analyses				
# of Wells				10
Samples/Year				9
\$/sample				\$70
Sub-total Stability Analyses				\$12,300
<b>Total Monitoring and Sampling Costs</b>				<b>\$66,300</b>
<b>VI. Mechanical Integrity Test (MIT) Costs</b>				
Five Year MIT Unit Cost (\$/well)				\$180
Number of Wells (30% of Inj. and Rest. Wells)				53
<b>Total Mechanical Integrity Testing Cost</b>				<b>\$9,450</b>
<b>TOTAL WELLFIELD RESTORATION COST</b>				<b>\$312,868</b>
<b>VII. Building Utility Costs</b>				<b>Central Plant</b>
Electricity (\$/Month)				\$8,500
Natural Gas (\$/Month)				\$2,500
Number of Months				48
<b>Total Building Utility Costs</b>				<b>\$528,000</b>
<b>VIII. Vehicle Operation Costs</b>				
Number of Pickup Trucks/Pulling Units (Gas)				5
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>\$404,200</b>

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Ground Water Restoration				Mine Unit-1
<b>IX.</b>	<b>Labor Costs</b>			
	Number of Environmental Managers/RSOs			1
	\$/Year			\$100,000
	Number of Restoration Managers			1
	\$/Year			\$80,000
	Number of Environmental Technicians			1
	\$/Year			\$34,000
	Number of Operators/Laborers			4
	\$/Year			\$34,000
	Number of Maintenance Technicians			2
	\$/Year			\$34,000
	Number of Years			4
	<b>Total Labor Costs</b>			<b>\$1,672,000</b>
<b>X.</b>	<b>Capital Costs</b>			
	Purchase RO Unit (1X400 gpm Unit)			\$600,000
	<b>Total Capital Costs</b>			<b>\$600,000</b>
<b>TOTAL GROUND WATER RESTORATION COSTS</b>				<b>\$3,517,068</b>

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Equipment Removal and Loading				CPP Ion Ex. Plant	Central Plant	Dryer Building
<b>I. Removal and Loading Costs</b>						
A.	Tankage					
	Number of Tanks		13	51	0	
	Volume of Tank Construction Material (ft <sup>3</sup> )		835	1340	300	
1.	Labor					
	Number of Persons		3	3	3	
	Ft <sup>3</sup> /Day		25	25	25	
	Number of Days		33	54	12	
	\$/Day/Person		\$120	\$120	\$120	
	Subtotal Labor Costs		\$12,030	\$19,296	\$4,320	
2.	Equipment					
	Number of Days		33	54	12	
	\$/Day		\$338	\$338	\$338	
	Subtotal Equipment Costs		\$11,295	\$18,117	\$4,056	
	Subtotal Tankage Removal and Loading Costs		\$23,325	\$37,413	\$8,376	
B.	PVC/Steel Pipe					
	PVC Pipe Footage		2800	5000		
	Average PVC Pipe Diameter (inches)		3	3	3	
	Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)		0.016	0.016	0.016	
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )		45	80	0	
	Steel Pipe Footage		1100	0	0	
	Average Steel Pipe Diameter (inches)		6	0	0	
	Volume (ft <sup>3</sup> )		216	0	0	
1.	Labor					
	Number of Persons		2	2	2	
	Ft/Day		300	300	300	
	Number of Days		13	17	0	
	\$/Day/Person		\$120	\$120	\$120	
	Subtotal PVC/Steel Pipe Labor Costs		\$3,120	\$4,000	\$0	
	Subtotal PVC/Steel Pipe Removal and Loading Costs		\$3,120	\$4,000	\$0	
C.	Pumps					
	Number of Pumps		21	43	0	
	Average Volume (ft <sup>3</sup> /pump)		4.93	4.93	0	
	Volume of Pumps (ft <sup>3</sup> )		103.53	211.99	0	
1.	Labor					
	Number of Persons		1	1	1	
	Pumps/Day		2	2	2	
	Number of Days		10.5	21.5	0	
	\$/Day/Person		\$120	\$120	\$120	
	Subtotal Labor Costs		\$1,260	\$2,580	\$0	
	Subtotal Pump Removal and Loading Costs		\$1,260	\$2,580	\$0	
D.	Dryer					
	Dryer Volume (ft <sup>3</sup> )				200	
1.	Labor					
	Number of Persons		0	0	5	
	Ft <sup>3</sup> /Day		0	0	175	
	Number of Days		0	0	2	
	\$/Day/Person		\$120	\$120	\$120	
	Total Labor Cost		\$0	\$0	\$1,200	
	Total Dryer Dismantling and Loading Cost		\$0	\$0	\$1,200	
	Subtotal Equipment Removal and Loading Costs per Facility		\$27,705	\$43,993	\$9,576	
	<b>Total Equipment Removal and Loading Costs</b>		<b>\$81,274</b>			
<b>II. Transportation and Disposal Costs (NRC-Licensed Facility)</b>						

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Equipment Removal and Loading				CPP Ion Ex. Plant	Central Plant	Dryer Building
A.	Tankage					
		Volume of Tank Construction Material (ft <sup>3</sup> )		835	1340	300
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		919	1474	330
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.00	\$12.00	\$12.00
		Subtotal Tankage Transportation and Disposal Costs		\$11,028	\$17,688	\$3,960
B.	PVC / Steel Pipe					
		Volume of Shredded PVC Pipe (ft <sup>3</sup> )		44.8	80	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		49	88	0
		Volume of Steel Pipe (ft <sup>3</sup> )		296	0	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		326	0	0
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.00	\$12.00	\$12.00
		Subtotal PVC Pipe Transportation and Disposal Costs		\$4,500	\$1,056	\$0
C.	Pumps					
		Volume of Pumps (ft <sup>3</sup> )		103.53	271	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		114	298	0
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.00	\$12.00	\$12.00
		Subtotal Pump Transportation and Disposal Costs		\$1,368	\$3,576	\$0
D.	Dryer					
		Dryer Volume (ft <sup>3</sup> )		0	0	400
		Volume for Disposal Assuming Dryer Remains Intact (ft <sup>3</sup> )		0	0	400
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$12.00	\$12.00	\$12.00
		Total Dryer Transportation and Disposal Costs		\$0	\$0	\$4,800
		Subtotal Equipment Transportation and Disposal Costs per Facility		\$16,896	\$22,320	\$8,760
		<b>Total Equipment Transportation and Disposal Costs</b>		<b>\$47,976</b>		
<b>III.</b>	<b>Health and Safety Costs</b>					
		Radiation Safety Equipment		\$1,250	\$1,250	\$1,250
		<b>Total Health and Safety Costs</b>		<b>\$3,750</b>		
		SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY		\$45,851	\$67,563	\$19,586
		<b>TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>		<b>\$133,000</b>		

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		CPP Ion Ex.	Central	Dryer	Office	Shop	DDW	Yellowcake	Warehouse	Fresh Water
Building Demolition and Disposal		Plant	Plant	Building	Building	Building	Buildings	Storage	Building	Pumphouse
<b>I. Decontamination Costs</b>										
A.	Wall Decontamination (1 gal per ft <sup>2</sup> )									
	Area to be Decontaminated (ft <sup>2</sup> )	10,810	15,900	0	0	0	0	3100	0	0
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63
	Subtotal Wall Decontamination Costs	\$6,810	\$10,017	\$0	\$0	\$0	\$0	\$1,953	\$0	\$0
B.	Concrete Floor Decontamination									
	Area to be Decontaminated (ft <sup>2</sup> )	11,550	16,500	3,500	0	0	0	2750	0	0
	HCl Acid Wash, including labor (\$/ft <sup>2</sup> )	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47
	Subtotal Concrete Floor Decontamination Costs	\$5,429	\$7,755	\$1,645	\$0	\$0	\$0	\$1,293	\$0	\$0
C.	Deep Well Injection Costs									
	Total Kgals for Injection	22.36	32.4	3.5	0	0	0	5.85	0	0
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39	\$1.39
	Subtotal Deep Well Injection Costs	\$31	\$45	\$5	\$0	\$0	\$0	\$8	\$0	\$0
	Subtotal Decontamination Costs per Building	\$12,270	\$17,817	\$1,650	\$0	\$0	\$0	\$3,254	\$0	\$0
	<b>Total Decontamination Costs</b>	<b>\$34,991</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									
	Area of Building (ft <sup>2</sup> )	11,550	16,500	3,500	9,934	7,028	500	2750	8,739	832
	Volume of Building (ft <sup>3</sup> )	346,500	577,500	122,500	248,350	175,700	4,000	55,000	174,780	8,320
	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 Building Demolition Costs	\$61,677	\$102,795	\$21,805	\$44,206	\$31,275	\$712	\$9,790	\$31,111	\$1,481
B.	Concrete Floor									
	Area of Concrete Floor (ft <sup>2</sup> )	11,550	16,500	3500	9,934	7,028	0	2750	8,739	832
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>2</sup> )	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40
	Subtotal Concrete Floor Demolition Costs	\$39,270	\$56,100	\$11,900	\$33,776	\$23,895	\$0	\$9,350	\$29,713	\$2,829
C.	Concrete Footing									
	Length of Concrete Footing (ft)	430	514	237	399	335	89	210	374	115
	Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)	\$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	\$4,872	\$4,098	\$1,093	\$2,563	\$4,569	\$1,410
	Subtotal Demolition Costs per Building	\$106,200	\$165,174	\$36,597	\$82,854	\$59,268	\$1,805	\$21,703	\$65,393	\$5,720
	<b>Total Demolition Costs</b>	<b>\$544,714</b>								
<b>III. Disposal Costs</b>										
A.	Building									
	Volume of Building (cy)	12833	21389	4537	9198	6507	148	2037	6473	308
1.	On-Site									
	Assumptions:									
	On-site disposal cost of \$1.25/cy									
	Percentage (%)	100	100	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)	12833	21389	4537	9198	6507	148	2037	6473	308
	Disposal Unit Cost (\$/cy)	\$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	\$11,498	\$8,134	\$185	\$2,546	\$8,092	\$385
2.	NRC-Licensed Facility									

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			CPP Ion Ex.	Central	Dryer	Office	Shop	DDW	Yellowcake	Warehouse	Fresh Water
			Plant	Plant	Building	Building	Building	Buildings	Storage	Building	Pumphouse
<b>Building Demolition and Disposal</b>											
		Percentage (%)	0	0	0	0	0	0	0	0	0
		Volume for Disposal (ft <sup>3</sup> )	0	0	0	0	0	0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	0	0	0	0	0	0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Subtotal Building Disposal Costs	\$16,042	\$26,736	\$5,671	\$11,498	\$8,134	\$185	\$2,546	\$8,092	\$385
B.		Concrete Floor									
		Area of Concrete Floor (ft <sup>2</sup> )	11550	16500	3500	9934	7028	0	2750	8739	1186
		Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Volume of Concrete Floor (ft <sup>3</sup> )	8662.5	12375	2625	7450.5	5271	0	2062.5	6554.25	889.5
		Volume of Concrete Floor (cy)	321	458	97	276	195	0	76	243	33
	1.	On-Site									
		Percentage (%)	75	75	75	100	100	100	75	100	100
		Volume for Disposal (cy)	241	344	73	276	195	0	57	243	33
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
		Subtotal On-Site Disposal Costs	\$1,538	\$2,197	\$466	\$1,763	\$1,247	\$0	\$366	\$1,551	\$211
	2.	NRC-Licensed Facility									
		Assumptions:									
		Additional \$2.00/ft <sup>3</sup> for segregation of concrete									
		Percentage (%)	25	25	25	0	0	0	25	0	0
		Volume for Disposal (ft <sup>3</sup> )	2888	3094	656	0	0	0	516	0	0
		Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal NRC-Licensed Facility Disposal Costs	\$42,165	\$45,169	\$9,581	\$0	\$0	\$0	\$7,528	\$0	\$0
		Subtotal Concrete Floor Disposal Costs	\$43,703	\$47,366	\$10,047	\$1,763	\$1,247	\$0	\$7,894	\$1,551	\$211
C.		Concrete Footing									
		Length of Concrete Footing (ft)	430	514	237	399	335	89	210	374	124
		Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4
		Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1
		Volume of Concrete Footing (ft <sup>3</sup> )	1720	2055	947	1595	1341	358	839	1496	496
		Volume of Concrete Footing (cy)	64	76	35	59	50	13	31	55	18
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
		Subtotal Concrete Footing Disposal Costs	\$407	\$486	\$224	\$377	\$317	\$85	\$199	\$354	\$117
		Subtotal Disposal Costs per Building	\$60,152	\$74,588	\$15,942	\$13,638	\$9,698	\$270	\$10,639	\$9,997	\$713
		<b>Total Disposal Costs</b>	<b>\$195,637</b>								
IV		<b>Health and Safety Costs</b>									
		Radiation Safety Equipment	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$1,000	\$0	\$0
		<b>Total Health and Safety Costs</b>	<b>\$5,000</b>								
<b>SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>			<b>\$179,622</b>	<b>\$258,579</b>	<b>\$55,189</b>	<b>\$97,492</b>	<b>\$68,966</b>	<b>\$2,075</b>	<b>\$36,596</b>	<b>\$75,390</b>	<b>\$6,433</b>
<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>			<b>\$780,342</b>								



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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1
<b>I.</b>	<b>Wellfield Piping</b>			
	Assumptions:			
	Number of Header Houses per Wellfield			5
	Length of Piping per Header House (ft)			2000
	Total Length of Piping (ft)			10000
	<b>A. Removal and Loading</b>			
	Wellfield Piping Removal Unit Cost (\$/ft of pipe)			\$0.42
	Subtotal Wellfield Piping Removal and Loading Costs			\$4,200
	<b>B. Transport and Disposal Costs (NRC-Licensed Facility)</b>			
	Average Diameter of Piping (inches)			2
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.005
	Chipped Volume per Wellfield (ft <sup>3</sup> )			50
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			55
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$12.00
	Subtotal Wellfield Piping Transport and Disposal Costs			\$660
	Wellfield Piping Costs per Wellfield			\$4,860
	<b>C. Capitol Costs</b>			
	PVC Pipe Shredder			\$0
	<b>Total Wellfield Piping Costs</b>			<b>\$4,860</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			
	<b>A. Pump and Tubing Transportation and Disposal</b>			
	Number of Production Wells			101
	Number of Injection Wells			175
	<b>1. Pump Volume</b>			
	Number of Production Wells with Pumps			61
	Average Pump Volume (ft <sup>3</sup> )			1
	Pump Volume per Wellfield (ft <sup>3</sup> )			61
	<b>2. Tubing Volume</b>			
	Assumptions:			
	Average tubing length/wellfield based on average well depth minus 25 ft			
	Number of Production Wells with Tubing			61
	Number of Injection Wells with Tubing			105
	Average Tubing Length per Well (ft)			725
	Tubing Length per Wellfield (ft)			120350
	Diameter of Production Well Fiberglass Tubing (inches)			2
	Diameter of Injection Well HDPE Tubing (inches)			1.25
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.005
	Chipped Volume per Wellfield (ft <sup>3</sup> )			602
	Volume of Pump and Tubing (ft <sup>3</sup> )			663
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			729
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$12.00
	<b>Total Pump and Tubing Costs</b>			<b>\$8,748</b>

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Wellfield Buildings and Equipment Removal and Disposal							Mine Unit-1			
<b>III.</b>	<b>Buried Trunkline</b>									
	Assumptions:									
	Length of Trunkline Trench (ft)						2600			
	A. Removal and Loading									
	Main Pipeline Removal Unit Cost (\$/ft of trench)						\$0.89			
	Subtotal Trunkline Removal and Loading Costs						\$2,314			
	B. Transport and Disposal Costs (NRC-Licensed Facility)									
	1. 3" HDPE Trunkline									
	Piping Length (ft)						2600			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.022			
	Chipped Volume (ft <sup>3</sup> )						57.2			
	2. 6" HDPE Trunkline									
	Piping Length (ft)						5200			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.078			
	Chipped Volume (ft <sup>3</sup> )						405.6			
	3. 8" HDPE Trunkline									
	Piping Length (ft)						5000			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.15			
	Chipped Volume (ft <sup>3</sup> )						750			
	3. 10" HDPE Trunkline									
	Piping Length (ft)						0			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.277			
	Chipped Volume (ft <sup>3</sup> )						0			
	4. 12" HDPE Trunkline									
	Piping Length (ft)						0			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.293			
	Chipped Volume (ft <sup>3</sup> )						0			
	5. 14" HDPE Trunkline									
	Piping Length (ft)						0			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.359			
	Chipped Volume (ft <sup>3</sup> )						0			
	5. 16" HDPE Trunkline									
	Piping Length (ft)						2600			
	Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.4			
	Chipped Volume (ft <sup>3</sup> )						1040			
	Total Trunkline Chipped Volume (ft <sup>3</sup> )						2252.8			
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )						2478			
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )						\$12.00			
	Subtotal Trunkline Transport and Disposal Costs						\$29,736			
	<b>Total Trunkline Decommissioning Costs</b>						<b>\$32,050</b>			
<b>IV.</b>	<b>Well Houses</b>									
	Total Quantity						5			

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<b>Wellfield Buildings and Equipment Removal and Disposal</b>				<b>Mine Unit-1</b>		
	Average Well House Volume (ft <sup>3</sup> )			12.5		
<b>A.</b>	<b>Removal</b>					
	Total Volume (ft <sup>3</sup> )			62.5		
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )			\$0.178		
	Subtotal Well House Demolition Costs			\$11		
<b>B.</b>	<b>Survey and Decontamination</b>					
	Assumptions:					
	Cost per Well House			\$4.49		
	Subtotal Survey and Decontamination Costs			\$22		
<b>C.</b>	<b>Disposal at NRC licensed Facility</b>					
	Total Volume (cy)			2		
	Volume for Disposal Assuming 10% Void Space (cy)			3		
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$12.00		
	Subtotal NRC Licensed Facility Disposal Costs			\$36		
	<b>Total Well House Removal and Disposal Costs</b>			<b>\$69</b>		
<b>V.</b>	<b>Header Houses</b>					
	Total Quantity			5		
	Average Header House Volume (ft <sup>3</sup> )			2700		
<b>A.</b>	<b>Removal</b>					
	Total Volume (ft <sup>3</sup> )			13500		
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )			\$0.178		
	Subtotal Building Demolition Costs			\$2,403		
<b>B.</b>	<b>Survey and Decontamination</b>					
	Assumptions:					
	Cost per Header House			\$284		
	Subtotal Survey and Decontamination Costs			\$1,420		
<b>C.</b>	<b>Disposal</b>					
	Total Volume (cy)			500		
	Volume for Disposal Assuming 10% Void Space (cy)			550		
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)			\$6.39		
	Subtotal On-Site Disposal Costs			\$3,515		
	<b>Total Header House Removal and Disposal Costs</b>			<b>\$7,338</b>		
<b>TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>				<b>\$53,065</b>		

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<b>Well Abandonment</b>				<b>Mine Unit-1</b>
<b>I. Well Abandonment (Wellfields)</b>				
	# of Production Wells			101
	# of Injection Wells			175
	# of Monitoring Wells			38
	Total Number of Wells			314
	Average Diameter of Casing (inches)			5
	Average Depth (ft)			725
	Well Abandonment Unit Cost (\$/well)			\$359
	<b>Total Wellfield Abandonment Costs</b>			<b>\$112,805</b>
<b>II. Waste Disposal Well Abandonment</b>				<b>DDW#1</b>
A.	Unit Cost Per Foot of Depth (Based on Wyoming Oil and Gas Conservation Commission average cost/ft)			\$4.87
B.	Depth of Well (ft)			10000
	<b>Total Waste Disposal Well Abandonment Costs</b>			<b>\$48,700</b>
<b>TOTAL WELL ABANDONMENT COSTS</b>				<b>\$161,505</b>

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<b>Wellfield and Satellite Surface Reclamation</b>							<b>Mine Unit-1</b>
<b>I. Wellfield Pattern Area, Laydown Area, and Road Reclamation</b>							
	Area (acres)						15
	Disking/Seeding Unit Cost (\$/acre)						\$235
Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs							\$3,525
<b>Total Wellfield Area Reclamation Costs</b>							<b>\$3,525</b>
<b>II. Satellite Area Reclamation</b>							<b>NB-1</b>
<b>Assumptions:</b>							
	Area of Disturbance (acres)						2.05
	Average Depth of Stripped Topsoil (ft)						1
Surface Grade: Level Ground							
	Average Length of Topsoil Haul (ft)						1000
A. Ripping Overburden with Dozer							
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)						\$814.22
Subtotal Ripping Costs							\$1,669
B. Topsoil Application with Scraper							
	Volume of Topsoil Removed (cy)						3307
	Application Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)						\$0.71
Subtotal Topsoil Application Costs							\$2,348
C. Discing and Seeding							
	Discing/Seeding Unit Cost (\$/acre)						\$200
Subtotal Discing/Seeding Costs							\$410
<b>Total Satellite Building Area Reclamation Costs</b>							<b>\$4,427</b>
<b>TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS</b>							<b>\$7,952</b>

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<b>Miscellaneous Reclamation</b>							
<b>I.</b>	<b>CPP/Office Area/Warehouse/Maint. Shop/Chem. Storage/Yard Reclamation</b>						
	Assumptions						
	Concrete Pad= 0.3 acres						
	Total Area = 10.57 acres						
A.	Concrete Pad						
	Area of Concrete Pad (ft <sup>2</sup> )						13068
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>2</sup> )						\$3.40
	Average Thickness of Concrete Floor (ft)						0.50
	Volume of Concrete Floor (ft <sup>3</sup> )						6,534
	Volume of Concrete Floor (cy)						242
	On-Site Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)						\$5.00
	Subtotal Concrete Pad Demolition and Disposal Costs						\$45,641
B.	Gravel Road Base Removal						
	Assumptions						
	Average haul distance (ft)						1000
	Gravel Road Base Width (ft)						
	Gravel Road Base Area (acres)						8.0
	Average Road Base Depth (ft)						0.5
	Volume of Road Base (cy)						6453
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)						\$0.87
	Subtotal Gravel Road Base Removal Costs						\$5,589
B.	Ripping Overburden with Dozer						
	Overburden Surface Area (acres)						10.6
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)						\$814.22
	Subtotal Ripping Overburden Costs						\$8,606
C.	Topsoil Application						
	Assumptions:						
	Area of surface disturbance (ft <sup>2</sup> )						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)						\$1.12
	Subtotal Topsoil Application Costs						\$19,150
D.	Discing/Seeding						
	Assumptions						
	Surface Area (acres)						10.57
	Discing/Seeding Unit Cost (\$/acre)						\$235
	Total Discing/Seeding Costs						\$2,484
	<b>Total CPF/Office/Yard Area Reclamation</b>						<b>\$75,881</b>
<b>II.</b>	<b>Access Road Reclamation</b>						<b>CPP Access Rd.</b>
A.	Assumptions						

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<b>Miscellaneous Reclamation</b>							
		Surface grade					1%
		Length of Road (ft)					7000
		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)					4.82
		Average Road Base Depth (ft)					0.5
		Volume of Road Base (cy)					3889
		Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87
		Subtotal Gravel Road Base Removal Costs					\$3,368
	C.	Ripping Overburden with Dozer					
		Overburden Surface Area (acres)					4.8
		Ripping Unit Cost per WDEQ Guideline No.12, App.I1 (\$/acre)					\$814.22
		Subtotal Ripping Overburden Costs					\$3,868
	D.	Topsoil Application					
		Assumptions					
		Average haul distance (ft)					1500
		Topsoil Surface Area (ft <sup>2</sup> )					206910
		Depth of Topsoil (ft)					0.5
		Volume of Topsoil (cy)					3832
		Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50
		Subtotal Topsoil Application Costs					\$5,748
	E.	Discing/Seeding					
		Assumptions					
		Surface Area (acres)					4.8
		Discing/Seeding Unit Cost (\$/acre)					\$235
		Subtotal Discing/Seeding Costs					\$1,116
		Subtotal Reclamation Costs per Access Road					\$14,100
		<b>Total Access Road Reclamation Costs</b>					<b>\$22,765</b>
	<b>III.</b>	<b>Trunk Lines #1 and #2</b>					<b>Trunk Line #1 (To MU-1)</b>
		Length of Trench (ft)					4000
	A.	Removal and Loading					
		Main Pipeline Removal Unit Cost (\$/ft of trench)					\$0.89
		Subtotal Trunkline Removal and Loading Costs					\$3,560
	B.	Transport and Disposal Costs (NRC-Licensed Facility)					
		1. 3" HDPE Trunkline					
		Piping Length (ft)					4000
		Chipped Volume Reduction (ft <sup>3</sup> /ft)					0.022

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<b>Miscellaneous Reclamation</b>							
			Chipped Volume (ft <sup>3</sup> )				88
	2.	6" HDPE Trunkline					
			Piping Length (ft)				8000
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.078
			Chipped Volume (ft <sup>3</sup> )				624
	3.	8" HDPE Trunkline					
			Piping Length (ft)				0
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.15
			Chipped Volume (ft <sup>3</sup> )				0
	3.	10" HDPE Trunkline					
			Piping Length (ft)				0
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.277
			Chipped Volume (ft <sup>3</sup> )				0
	4.	12" HDPE Trunkline					
			Piping Length (ft)				0
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.293
			Chipped Volume (ft <sup>3</sup> )				0
	5.	14" HDPE Trunkline					
			Piping Length (ft)				0
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.359
			Chipped Volume (ft <sup>3</sup> )				0
	5.	16" HDPE Trunkline					
			Piping Length (ft)				4000
			Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.4
			Chipped Volume (ft <sup>3</sup> )				1600
		Total Trunkline Chipped Volume (ft <sup>3</sup> )					2312
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )					2543
		Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft <sup>3</sup> )					\$12.00
		Subtotal Pipeline Disposal Costs					\$30,516
	C.	Discing/Seeding					
		Assumptions:					
			Width of Pipeline Trench (ft)				4
			Area of Pipeline Trench (acres)				0.4
			Discing/Seeding Unit Cost (\$/acre)				\$235
		Subtotal Discing/Seeding Costs					\$86
		Subtotal Reclamation Costs per Pipeline					\$34,162
		<b>Total Pipeline Reclamation Costs</b>					<b>\$34,162</b>
<b>IV.</b>	<b>Settling Basin/Evap. Pond Reclamation</b>						<b>Evaporation Pond</b>
	A.	Soil Sampling and Monitoring					
			Number of Soil Samples				10



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<b>Miscellaneous Reclamation</b>					
		\$/Sample			\$75
		Subtotal Soil Sampling and Monitoring Costs			\$750
	B.	Liner/Subsoil Removal and Disposal			
		Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook			
		Width of Pond (ft)			112
		Length of Pond (ft)			487
		Depth of Pond (ft)			10
		Surface area of pond (ft <sup>2</sup> )			54544
		Surface area of both ponds (ft <sup>2</sup> )			109088
		1. Removal and Loading			
		Volume of Geotextile Liner (cy)			272.72
		Geotextile Liner Removal and Loading Unit Cost (\$/cy)			\$3
		Liner Removal and Loading Costs			\$818
		PVC Pipe Footage			920
		Average PVC Pipe Diameter (inches)			3
		PVC Pipe Removal Costs (base on previous estimates for piping removal)			\$1,008
		Subtotal Removal and Loading Costs			\$1,826
		2. Transportation and Disposal			
		Volume of Geotextile Liner (ft <sup>3</sup> )			272.72
		Volume of Geotextile Liner @ 40% void (ft <sup>3</sup> )			455
		Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)			0.016
		Volume of Shredded PVC Pipe (ft <sup>3</sup> )			15
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$12.00
		Subtotal Transportation and Disposal Costs			\$5,631
		Subtotal Liner Removal and Disposal Costs			\$7,457
	C.	Grade and Contour			
		Volume of Embankment Material (CY)			16,900
		Average Grade (%)			0
		Distance (ft)			100
		Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)			\$0.092
		Subtotal Grade and Contour Costs			\$1,555
	C.	Topsoil Application			
		Assumptions:			
		Area of surface disturbance (ft <sup>2</sup> )			115000
		Average thickness of topsoil (ft)			1
		Average haul distance (ft)			1000
		Surface grade (%)			0%
		Volume of Topsoil (cy)			4,259
		Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$1.12
		Subtotal Topsoil Application Costs			\$4,783
	D.	Discing/Seeding			
		Assumptions:			
		Area of surface disturbance (acres)			2.6

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<b>Miscellaneous Reclamation</b>					
		Discing/Seeding Unit Cost (\$/acre)			\$235
		Subtotal Discing/Seeding Costs			\$611
		<b>Total Settling Basin/Evap. Ponds Reclamation Costs</b>			<b>\$15,156</b>
<b>V.</b>	<b>Miscellaneous Structures</b>				
	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 <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</b>			<b>\$3,598</b>
<b>VI.</b>	<b>Wellfield Pattern Area, Laydown Area, and Road Reclamation</b>				
		Area (acres)			29.6
		Disking/Seeding Unit Cost (\$/acre)			\$235
		Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs			\$6,956
		<b>Total Wellfield Area Reclamation Costs</b>			<b>\$6,956</b>
		<b>TOTAL MISCELLANEOUS RECLAMATION COSTS</b>			<b>\$158,517</b>

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<b>RADIUM TREATMENT</b>					
HUP SURETY ONLY!!					
<b>Assumptions:</b>					
1. Based on actual 1998 operating costs from Satellite No. 2					
<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>= \$ 0.34</b>	HUP ONLY

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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 = \$0.048/kwh									
3. All water pumped is disposed at WDW with a 20 hp pump									
4. Repair and maintenance costs estimated at \$0.50/1000 gallons									
5. Process sampling and analysis costs estimated at \$0.03/1000 gallons									
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	$\frac{\$ 0.05}{\text{kwh}}$	= \$ 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	$\frac{\$ 0.05}{\text{kwh}}$	= \$ 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.	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 = \$0.048/kwh								
3.	75% permeate/25% reject split								
4.	Membrane life of 5 years with a cost of \$700 per membrane element								
5.	Includes cost of pumping from wellfield to RO Unit								
6.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
7.	Labor costs are not included								
7.									
<b>Reverse Osmosis Costs per 1000 Gallons</b>									
	Electricity					= \$	0.048		
	Chemicals					= \$	0.23		
	Membrane Replacement					= \$	0.03		
	Repair and Maintenance					= \$	0.26		
	Process Sampling and Analysis					= \$	0.03		
<b>TOTAL RO COSTS PER 1000 GALLONS = \$ 0.60</b>									

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<b>CHEMICAL REDUCTANT</b>												
<b>Assumptions:</b>												
1.	Bioremediation is utilized											
2.	Based on actual 2003-2004 operating costs during restoration activities											
3.	Added the cost of using cheese whey											
<b>TOTAL CHEMICAL REDUCTANT COSTS PER Kgal</b>											<b>= \$ 0.3</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 = \$0.048/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 \$.50/1000 gallons											
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>											
$\frac{1000 \text{ gal}}{100 \text{ gpm}} \times \frac{150 \text{ hp}}{100 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.048}{\text{kwh}} = \$ 0.90$											
<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	Backhoe for 8.0 hr/day to dig and reclaim pit at cost of \$65/hr.								
3	Use hose reel for 8 hr/day to pull equipment from well at cost of \$45/hr.								
4	Use cementer for 8.0 hr/day to pump cement/plug gel at cost of \$45/hr.								
5	Use tow vehicle for 8.0 hr/day to tow hose reel and cementer from well to well at cost of \$40/hr.								
6	Labor for backhoe, hose reel, cementer will require 3 workers at 8.0 hr/day at cost of \$35/hr.								
	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 \$5.95/sack.								
<u>Fixed Costs</u>									
Backhoe									
	8	hours	X	\$ 65	per hour	=	\$	520.00	
Hose Reel/Tow Vehicle									
	8	hours	X	\$ 35	per hour	=	\$	280.00	
Cementer									
	8	hours	X	\$ 45	per hour	=	\$	360.00	
Tow Vehicle									
	8	hours	X	\$ 40	per hour	=	\$	320.00	
Labor									
3	men=	24	man	X	\$ 15.00	per man	=	\$	360.00
		hours			hour				
Total Fixed Costs per 8.0 hr/day							=	\$	1840.00
<u>Variable Costs</u> (per 100 ft of well depth)									
Materials									
	7.5	sack cement	X	\$ 7.62	per	=	\$	57.15	
		per 100 feet			sack				
	1	sack plug gel	X	\$ 5.95	per hole	=	\$	5.95	
		per 100 feet			plug				



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WELL ABANDONMENT Page 2										
<b>Total materials Cost (per 100 ft of well depth)</b>										\$ 63.10
Total number of wells completed per/day										
<b>6</b>										
<b>Cost per Well per Unit of Average Depth</b>										
<b>Well Depth (ft)</b>										
450										= \$ 354
500										= \$ 359
550										= \$ 365
600										= \$ 370
650										= \$ 375
700										= \$ 380
750										= \$ 386
800										= \$ 391
850										= \$ 396
900										= \$ 401
950										= \$ 407

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
SURETY ESTIMATE  
FIRST YEAR OF OPERATION

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
<b>Assumptions:</b>									
1	Pulling Unit for 8.0 hr/day at cost of \$45/hr.								
2	MIT Unit for 8.0 hr/day at cost of \$45/hr.								
3	Labor for operation of pulling unit will require 2 workers at \$15/hr								
4	Labor for operation of MIT Unit will require 1 worker at \$15/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	\$ 15	per hour	X	2	workers	= \$ 240.00
	MIT Unit								
	8	hours	X	\$ 15	per hour				= \$ 120.00
								<b>TOTAL MIT COST PER DAY</b>	<b>= \$ 1080.00</b>
	Wells Completed			6	per day				
								<b>MIT COSTS PER WELL</b>	<b>= \$ 180.00</b>

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
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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								
4.	Fuel cost: \$10/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								
<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	X	750 ft				
<b>Fuel</b>									
	\$ 10		8 hrs		1 days	=\$ 0.11			
	hour	X	1 day	X	750 ft				
<b>Labor</b>									
<b>Trackhoe Operation</b>									
	\$ 15		8 man hrs		1 days	=\$ 0.16			
	man hr	X	1 day	X	750 ft				
<b>Pipeline Extraction</b>									
	\$ 15		16 man hrs		1 day	=\$ 0.32			
	man hr	X	1 day	X	750 ft				
<b>MAIN PIPELINE REMOVAL COST PER FT OF TRENCH</b>						<b>=\$ 0.89</b>			

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
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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: \$1,000/week									
4. Fuel cost: \$10/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									
<b>Main Pipeline Removal Costs per ft of Pipe</b>									
<b>Equipment</b>									
<b>Backhoe</b>									
	\$ 1000	X	1 week	X	1 days	= \$ 0.13			
	week		5 days		1500 ft				
<b>Fuel</b>									
	\$ 10	X	8 hrs	X	1 days	= \$ 0.05			
	hour		1 day		1500 ft				
<b>Labor</b>									
<b>Backhoe Operation</b>									
	\$ 15	X	8 man hrs	X	1 days	= \$ 0.08			
	man hr		1 day		1500 ft				
<b>Pipeline Extraction</b>									
	\$ 15	X	16 man hrs	X	1 day	= \$ 0.16			
	man hr		1 day		1500 ft				
<b>MAIN PIPELINE REMOVAL COST PER FT OF PIPE</b>						<b>= \$ 0.420</b>			

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
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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 \$0.866/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 \$235/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	$\frac{\$235}{\text{acre}}$	= \$ 135
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( BEFORE JANUARY 1, 1997)</b>									<b>= \$ 802</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 \$235/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	$\frac{\$0.86}{\text{cy}}$	= \$ 255
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	$\frac{\$235}{\text{acre}}$	= \$ 108
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( AFTER JANUARY 1, 1997)</b>									<b>= \$ 403</b>

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
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BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL										
<b>Assumptions:</b>										
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 <sup>3</sup> dumpster or 30-yd <sup>3</sup> dump truck).									
4.	Each shipment contains 30,000 lbs of material.									
		<b>Transportation Cost</b>				<b>Disposal Cost</b>				<b>Total</b>
		\$	1.00	/ft <sup>3</sup>	+	\$	11.00	/ft <sup>3</sup>	=	\$ 12.00 /ft <sup>3</sup>
									=	\$ 12.00 /ft <sup>3</sup>

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
SURETY ESTIMATE  
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<b>DISKING/SEEDING</b>							
<b>Assumptions:</b>							
1.	Based on actual contractor costs in 2006						
2.	Disking cost \$55/Acre						
3.	Seeding cost based on drill seeding - seed cost based on type,						
	availability, over all cost of \$180.00/Acre						
<b>TOTAL DISKING/SEEDING COSTS PER ACRE</b>					<b>= \$</b>	<b>235</b>	

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
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<b>Abbreviations/Acronyms</b>	
\$	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