

POWER RESOURCES, INC. RUTH ISL PROJECT
SURETY ESTIMATE

TOTAL DECOMMISSIONING AND RECLAMATION COST ESTIMATE									
I.	BUILDING DEMOLITION AND DISPOSAL COSTS								\$46,661
II.	EVAPORATION POND DECOMMISSIONING COSTS								\$23,130
III.	MISC. SURFACE RECLAMATION COSTS								\$7,863
IV.	WELL PLUGGING AND ABANDONMENT								\$1,665
V.	FINAL STATUS SURVEY REPORT								\$10,000
								SUBTOTAL	\$89,319
								PROJECT MANAGEMENT AND MISCELLANEOUS COSTS (15%) ¹	\$13,398
								CONTRACTOR PROFIT, OVERHEAD, AND MOBILIZATION COSTS (10%) ²	\$8,932
								TOTAL	\$111,649
								TOTAL CALCULATED SURETY (IN 2003 DOLLARS)	\$111,600

¹ Based on WDEQ-LQD Guideline No. 12 (1/2001), Section II(B)(12)(except b) and (13).

² Based on WDEQ-LQD Guideline No. 12 (1/2001), Section II(B)(12)(b).

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BUILDING DEMOLITION AND DISPOSAL						Process Building	Warehouse Building	Generator Building
I. Demolition Costs								
A.	Equipment	Equipment remaining on site includes 6 tanks/vessels and injection manifold. Assume \$2000 for dismantling.						
		Subtotal Equipment Dismantling Costs				\$2,000	\$0	\$0
B.	Building	Total Volume of Building (ft ³)				80000	6000	1500
		Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/ft ³)				\$0.178	\$0.178	\$0.178
		Subtotal Building Demolition Costs				\$14,240	\$1,068	\$267
C.	Concrete Floor	Area of Concrete Floor (ft ²)				4000	600	150
		Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/ft ²)				\$3.40	\$3.40	\$3.40
		Subtotal Concrete Floor Demolition Costs				\$13,600	\$2,040	\$510
D.	Concrete Footing	Length of Concrete Footing (ft)				280	0	0
		Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/lin. ft)				\$12.22	\$12.22	\$12.22
		Subtotal Concrete Footing Demolition Costs				\$3,422	\$0	\$0
		Subtotal Demolition Costs per Building				\$33,262	\$3,108	\$777
		Total Demolition Costs				\$37,147		
II. Disposal Costs								
A.	Equipment	Assumptions: Per Byproduct Material Disposal Agreement between PRI and Pathfinder, first 185 cy disposed of at Shirley Basin at no cost. Transportation based on 2001 operating costs at Highland. Assume equipment volume of 15 cy.						
		# Trips				1	0	0
		Transportation Unit Cost (\$/trip)				\$700	\$700	\$700
		Disposal Unit Cost (\$/ton)				\$0	\$0	\$0
		Subtotal Equipment Disposal Costs				\$700	\$0	\$0
B.	Buildings (On-Site)	Assumptions: Thickness of building material (ft)				0.75	0.5	0.5
		Building Length (ft)				100	30	15
		Building Width (ft)				40	20	10
		Building Height (ft)				20	10	10
		Volume of Building Materials (cy)				267	30	12
		Volume for Disposal (assuming 25% swell factor) (cy)				334	38	15
		Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/cy)				\$6.39	\$6.39	\$6.39
		Subtotal Building Disposal Costs				\$2,134	\$243	\$96
C.	Concrete Floor	Assumptions: Per Byproduct Material Disposal Agreement between PRI and Pathfinder, first 185 cy disposed of at Shirley Basin at no cost. Transportation based on 2001 operating costs at Highland.						
		Area of Concrete Floor (ft ²)				4000	600	150
		Average Thickness of Concrete Floor (ft)				0.5	0.5	0.5
		Volume of Concrete Floor (cy)				74	11	3
	1. On-Site							

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					Process	Warehouse	Generator
BUILDING DEMOLITION AND DISPOSAL					Building	Building	Building
			Percentage (%) ²		90%	100%	100%
			Volume for Disposal (cy)		66.6	11	3
			Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/cy)		\$6.39	\$6.39	\$6.39
			Subtotal On-Site Disposal Costs		\$426	\$70	\$19
	2.		NRC-Licensed Facility				
			Percentage (%) ²		10%	0%	0%
			Volume for Disposal (cy)		7.4	0	0
			Volume for Disposal (assuming 50% swell factor) (cy)		11	0	0
			Disposal Unit Cost (\$/cy)		\$324	\$324	\$324
			Subtotal NRC-Licensed Facility Disposal Costs		\$3,564	\$0	\$0
			Subtotal Concrete Floor Disposal Costs		\$3,990	\$70	\$19
	D.		Concrete Footing (On-Site)				
			Length of Concrete Footing (ft)		280	0	0
			Average Depth of Concrete Footing (ft)		4	4	4
			Average Width of Concrete Footing (ft)		1	1	1
			Volume of Concrete Footing (cy)		41	0	0
			Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/cy)		\$6.39	\$6.39	\$6.39
			Subtotal Concrete Footing Disposal Costs		\$262	\$0	\$0
			Subtotal Disposal Costs per Building		\$7,086	\$313	\$115
			Total Disposal Costs		\$7,514		
III. Radiation Surveys and Soil Sampling							
Assumptions: Based on NRC regulations and ambient levels of radiation							
on-site, environmental and personnel monitoring (TLD) not required.							
	A.		Equipment (Alpha/Gamma Surveys and Smear Samples)				
			# Weeks		2	0	0
			Rental Rate (\$/week)		\$250	\$250	\$250
			Total Equipment Costs		\$500	\$0	\$0
	B.		Labor (Surveys and Soil Sampling)				
			# Hours		80	0	0
			Labor Cost (\$/hr)		\$15	\$15	\$15
			Total Labor Costs		\$1,200	\$0	\$0
	C.		Analytical Costs				
			# Samples		5	0	0
			Ra-226 Analytical Cost (\$/sample)		\$60	\$60	\$60
			Total Analytical Costs		\$300	\$0	\$0
			Subtotal Radiation Survey and Soil Sampling Costs		\$2,000	\$0	\$0
			Total Radiation Survey and Soil Sampling Costs		\$2,000		
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					\$42,348	\$3,421	\$892
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					\$46,661		
Notes: ¹ Based on radiation surveys conducted by Pathfinder Mines Co. during October and November, 2001 (see site transfer letter dated November 2, 2001).							

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EVAPORATION POND DECOMMISSIONING				Pond No. 1	Pond No. 2
I. Byproduct Material Removal and Loading					
A.	Volume of Byproduct Material				
	Area of Pond Bottom (ft ²)			22,138	21,947
1.	Area with Fill (ft ²)			2,813	0
	Average Thickness of Fill (in)			3.5	0
	Volume of Fill (cy)			30	0
2.	Remaining Area with Pond Residue (ft ²)			19,325	21,947
	Average Thickness of Pond Residue (in)			1	0.5
	Volume of Pond Residue (cy)			60	34
3.	Area of Liner (ft ²)			22,138	21,947
	Thickness of Liner (in)			0.036	0.036
	Volume of Liner (cy)			2.5	2.4
	Volume of Liner Assuming 25% Void Space (cy)			3	3
4.	Area of Contaminated Sump and Drain (ft ²)			0	1
	Length of Sump and Drain (ft)			0	240
	Volume of Sump and Drain (cy)			0	9
5.	Diameter of Contaminated Soil (ft)			0	10
	Depth of Contaminated Soil (in)			0	6
	Volume of Contaminated Soil (cy)			0	1
	Subtotal Volume of Byproduct Material (cy)			93	47
B.	Equipment (Front End Loader)				
	# Hours			40	20
	Operating Cost (\$/hr)			\$60	\$60
	Subtotal Equipment Costs			\$2,400	\$1,200
C.	Labor				
	# Hours			40	20
	# Laborers			3	3
	Labor Cost (\$/hr)			\$15	\$15
	Subtotal Labor Costs			\$1,800	\$900
	Subtotal Byproduct Material Removal and Loading Costs			\$4,200	\$2,100
	Total Byproduct Material Removal and Loading Costs			\$6,300	
II. Transportation and Disposal					
	Total Volume of Byproduct Material (cy)			93	47
	Assumptions: Per Byproduct Material Disposal Agreement between PRI and Pathfinder, first 185 cy disposed of at Shirley Basin at no cost. Transportation based on 2001 operating costs at Highland.				
A.	Transportation				
	Volume of Soil per Trip (cy/trip)			30	30
	# Trips			3	2
	Cost per Trip (\$/trip)			\$700	\$700
	Subtotal Transportation Costs			\$2,100	\$1,400
B.	Disposal				
	Disposal Unit Cost (\$/cy)			\$0	\$0
	Subtotal Disposal Costs			\$0	\$0
	Subtotal Transportation and Disposal Costs			\$2,100	\$1,400
	Total Transportation and Disposal Costs			\$3,500	
III. Ripping					
	Area (acres)			0.5	0.5
	Ripping Unit Cost per WDEQ Guideline 12, App. I (\$/acre)			\$814.22	\$814.22
	Subtotal Ripping Costs			\$407	\$407
	Total Ripping Costs			\$814	
IV. Backfilling					
	Assumptions: Surface grade = 0%; Avg. haul distance = 100 ft.				

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EVAPORATION POND DECOMMISSIONING				Pond No. 1	Pond No. 2
	Volume of Soil (cy)			5400	5400
	Backfilling Unit Cost per WDEQ Guideline 12, App. E (\$/cy)			\$0.192	\$0.192
	Subtotal Backfilling Costs			\$1,037	\$1,037
	Total Backfilling Costs			\$2,074	
V.	Grading				
	Area (acres)			1.5	1.5
	Rough Grading Unit Cost per WDEQ Guideline 12, App. M (\$/acre)			\$61.28	\$61.28
	Final Grading Unit Cost per WDEQ Guideline 12, App. G (\$/acre)			\$45.65	\$45.65
	Subtotal Grading Costs			\$160	\$160
	Total Grading Costs			\$320	
VI.	Replacement of Topsoil				
	Assumptions: Surface grade = 0%; Avg. haul distance = 400 ft.				
	Volume of Topsoil (cy)			3756	3756
	Application Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)			\$0.62	\$0.62
	Subtotal Topsoil Replacement Costs			\$2,336	\$2,336
	Total Topsoil Replacement Costs			\$4,672	
VII.	Seeding/Revegetation				
	Area (acres)			1.5	1.5
	Disking/Seeding (\$/acre)			\$235	\$235
	Mulching (\$/acre)			\$300	\$300
	Subtotal Seeding/Revegetation Costs			\$803	\$803
	Total Seeding/Revegetation Costs			\$1,606	
VIII.	Fence Removal				
	Length (ft)			800	800
	Removal Unit Cost per WDEQ Guideline 12, App. H (\$/ft)			\$0.59	\$0.59
	Subtotal Fence Removal Costs			\$472	\$472
	Total Fence Removal Costs			\$944	
IX.	Radiation Surveys and Soil Sampling				
	Assumptions: Based on NRC regulations and ambient levels of radiation on-site, environmental and personnel monitoring (TLD) not required.				
A.	Equipment (Alpha/Gamma Surveys and Smear Samples)				
	# Weeks			1	1
	Rental Rate (\$/week)			\$250	\$250
	Total Equipment Costs			\$250	\$250
B.	Labor (Surveys and Soil Sampling)				
	# Hours			40	40
	Labor Cost (\$/hr)			\$15	\$15
	Total Labor Costs			\$600	\$600
C.	Analytical Costs				
	# Samples			10	10
	Ra-226 Analytical Cost (\$/sample)			\$60	\$60
	Total Analytical Costs			\$600	\$600
	Subtotal Radiation Survey and Soil Sampling Costs			\$1,450	\$1,450
	Total Radiation Survey and Soil Sampling Costs			\$2,900	
	SUBTOTAL EVAPORATION POND DECOMMISSIONING COSTS			\$12,965	\$10,165
	TOTAL EVAPORATION POND DECOMMISSIONING COSTS			\$23,130	

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MISC. SURFACE RECLAMATION						
I. Buildings, Roads, and Parking Areas						
A.	Gravel Removal					
	Assumptions: Surface Grade = 0%; Avg. haul distance = 500 ft.					
		Volume (cy)				1500
		Removal Unit Cost per WDEQ Guideline 12, App. C (\$/cy)				\$0.73
	Total Gravel Removal Costs					\$1,088
B.	Ripping					
		Area (acres)				2
		Ripping Unit Cost per WDEQ Guideline 12, App. I (\$/acre)				\$814.22
	Total Ripping Costs					\$1,628
C.	Replacement of Topsoil					
	Assumptions: Surface grade = 0%; Avg. haul distance = 400 ft.					
		Volume of Topsoil (cy)				2070
		Application Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)				\$0.62
	Total Topsoil Replacement Costs					\$1,288
D.	Seeding/Revegetation					
		Area (acres)				2
		Disking/Seeding (\$/acre)				\$235
		Mulching (\$/acre)				\$300
	Total Seeding/Revegetation Costs					\$1,070
E.	Fence Removal					
		Length (ft)				2880
		Removal Unit Cost per WDEQ Guideline 12, App. H (\$/ft)				\$0.59
	Total Fence Removal Costs					\$1,699
Total Bldgs, Roads, and Parking Area Surface Reclamation Costs						\$6,773
II. R&D Wellfield Area						
A.	Replacement of Topsoil					
	Assumptions: Surface grade = 0%; Avg. haul distance = 350 ft.					
		Volume of Topsoil (cy)				1180
		Application Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)				\$0.561
	Total Topsoil Replacement Costs					\$662
B.	Seeding/Revegetation					
		Area (acres)				0.8
		Disking/Seeding (\$/acre)				\$235
		Mulching (\$/acre)				\$300
	Total Seeding/Revegetation Costs					\$428
Total R&D Wellfield Area Surface Reclamation Costs						\$1,090
TOTAL MISC. SURFACE RECLAMATION COSTS						\$7,863

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WELL PLUGGING AND ABANDONMENT				
I.	Plugging			
	Assumptions: Based on actual well abandonment costs incurred at Ruth during 2000. Includes labor , equip., and materials.			
	Well Casing Diameter (in)			5
	# Wells			3
	Average Well Depth (ft)			550
	Total Casing Length (ft)			1650
	Plugging Unit Cost ¹ (\$/550 foot well)			\$550.00
	Total Plugging Costs			\$1,650
II.	Seeding/Revegetation			
	# Sites			3
	Seeding Unit Cost per WDEQ Guideline 12, App. L (\$/site) ³			\$5
	Total Seeding Costs			\$15
TOTAL WELL PLUGGING AND ABANDONMENT COSTS				\$1,665
Notes:	¹ Includes well plugging, removing top of casing, installing cement plug, etc.			
	² Seeding of abandoned well locations to be completed in conjunction with seeding of other reclaimed areas.			