

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

Total Restoration and Reclamation Cost Estimate							
I.	GROUNDWATER RESTORATION COST						\$8,084,019
II.	EQUIPMENT REMOVAL & DISPOSAL COST						\$134,522
III.	BUILDING DEMOLITION AND DISPOSAL COST						\$1,267,087
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST						\$1,788,455
V.	WELL ABANDONMENT COST						\$1,881,458
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST						\$118,695
VII.	TOTAL MISCELLANEOUS RECLAMATION COST						\$804,464
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE						\$14,078,700
	CPI ESCALATOR- July 1998 to May 31, 2006 (24.08%) OUT						\$0
	SUBTOTAL						\$14,078,700
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)						\$3,519,675
	TOTAL						\$17,598,375
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)						\$17,598,400

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

Ground Water Restoration				Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul. Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
PV Assumptions																
Wellfield Area (ft2)				151900	690900	1274000	32500		279500	994500	3348000	1116000	216000	891231	1200000	0
Wellfield Area (acres)				3.49	15.86	29.25	0.75	0.00	6.42	22.83	76.86	25.62	4.96	20.46	27.55	0.00
Affected Ore Zone Area (ft2)				151900	690900	1274000	32500	0	279500	994500	3348000	1116000	216000	891231	1200000	0
Avg. Completed Thickness				15	15	15	15		15	15	15	15	15	15	20	20
Porosity				0.27	0.27	0.27	0.27		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Perimeter Injection Wells/ ft2						2.05E-04			2.54E-04	2.63E-04	2.00E-04	2.43E-04	2.45E-04	2.55E-04	2.55E-04	2.55E-04
Flare Factor				1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Affected Volume (ft3)				3417750	15545250	28665000	731250	1360000	6288750	22376250	75330000	25110000	4860000	20052698	36000000	0
Kgallons per Pore Volume				6902	31395	57892	1477	10173	12701	45191	152136	50712	9815	40498	72706	0
Number of Patterns in Unit(s)																
Current				31	141	196	5	0	43	153	465	155	30	124	120	0
Estimated next report period				0	0	0	0	0	0	0	0	0	0	0	0	0
Total Estimated				31	141	196	5	0	43	153	465	155	30	124	120	0
Number of Wells in Unit(s)																
Production Wells																
Current				27	141	192			45	143	465	155	30	125	120	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				27	141	192			45	143	465	155	30	125	120	0
Injection Wells																
Current				50	319	343			91	307	903	327	67	236	240	0
Estimated next report period				0	0	0	Wells included under C-Wellfield		0	0	0	0	0	0	0	0
Total Estimated				50	319	343			91	307	903	327	67	236	240	0
Monitor Wells																
Current				18	67	78			38	86	134	81	20	39	41	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				18	67	78			38	86	134	81	20	39	41	0
Restoration Wells																
Current				13	30	19			0	0	15	0	0	0	0	0
Estimated next report period				0	0	0			0	0	0	0	0	0	0	0
Total Estimated				13	30	19			0	0	15	0	0	0	0	0
Number of Wells per Wellfield				108	557	632	0	0	174	536	1517	563	117	400	401	0
Total Number of Wells				4087												
Average Well Depth (ft)				500	450	550	550	550	600	550	650	500	600	650	540	540
I. Restoration Well Installation Costs																
Number of Restoration Wells				0	0	0	0	0	0	0	0	0	0	0	0	0
Well Installation Unit Cost (\$/Well)				\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Subtotal Restoration Well Installation Costs per Wellfield				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Restoration Well Installation Costs				\$0												

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

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II. Ground Water Sweep Costs																
	PV's Required			0	1	1	1	1	1	1	1	1	1	1	1	1
	Total Kgals for Treatment			0	31395	57892	1477	10173	12701	45191	152136	50712	9815	40498	72706	0
	Ground Water Sweep Unit Cost (\$/Kgal)			\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50
	Subtotal Ground Water Sweep Costs per Wellfield			\$0	\$47,081	\$86,817	\$2,215	\$15,256	\$19,047	\$67,770	\$228,150	\$76,050	\$14,719	\$60,733	\$109,032	\$0
	Total Ground Water Sweep Costs			\$726,870												
III. Reverse Osmosis Costs																
	PV's Required			4	4	4	4	4	4	4	4	4	4	4	4	4
	Total Kgals for Treatment			27610	125581	231567	5907	40691	50803	180764	608546	202849	39261	161994	290822	0
	Reverse Osmosis Unit Cost (\$/Kgal)			\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60
	Subtotal Reverse Osmosis Costs per Wellfield			\$16,511	\$75,097	\$138,477	\$3,533	\$24,333	\$30,380	\$108,097	\$363,910	\$121,303	\$23,478	\$96,872	\$173,912	\$0
	Total Reverse Osmosis Costs			\$1,175,903												
IV. Bioremediation/Chemical Reductant Costs																
	Total Kgals for Treatment (2 Pore Volumes)			0	62790	115784	2954	20346	25402	90382	304273	101424	19631	80997	145411	0
	Chemical Reductant Unit Cost (\$/Kgal)			\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32
	Subtotal Chemical Reductant Costs per Wellfield			\$0	\$20,093	\$37,051	\$945	\$6,511	\$8,128	\$28,922	\$97,367	\$32,456	\$6,282	\$25,919	\$46,532	\$0
	Total Chemical Reductant Costs			\$310,206												
V. Elution Costs																
	A. Elution Processing Costs		OUT													
	Kgals/Elution Required			35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
	Number of Elutions			1	4	8	1	1	2	6	22	7	1	6	10	0
	Processing Unit Cost (\$/Elution)			\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900	\$900
	Subtotal Processing Costs			\$900	\$3,600	\$7,200	\$900	\$900	\$1,800	\$5,400	\$19,800	\$6,300	\$900	\$5,400	\$9,000	\$0
	B. Deep Well Injection Costs															
	Deep Well Injection Volume (Kgals/Elution)			12	12	12	12	12	12	12	12	12	12	12	12	12
	Total Kgals for Injection			12	48	96	12	12	24	72	264	84	12	72	120	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13
	Subtotal Deep Well Injection Costs			\$50	\$198	\$396	\$50	\$50	\$99	\$297	\$1,089	\$347	\$50	\$297	\$495	\$0
	Subtotal Elution Costs per Wellfield			\$950	\$3,798	\$7,596	\$950	\$950	\$1,899	\$5,697	\$20,889	\$6,647	\$950	\$5,697	\$9,495	\$0
	Total Elution Costs			\$65,518												
VI. Monitoring and Sampling Costs																
	A. Restoration Well Sampling															
	Estimated Restoration Period (Years)			5	5	5	5	2	5	5	5	5	5	5	5	5
	1. Well Sampling prior to restoration start(Guideline 8)															
	# of Wells			0	20	31	5	7	9	31	21	12	4	6	6	6
	\$/sample			\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200

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2006-2007 SURETY ESTIMATE REVISION

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	2.	Restoration Progress Sampling (short list)																		
		# of Wells					0	20	31	5	7	9	31	21	12	4	6	12		
		\$/sample					\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	
		Samples/Year					6	6	6	6	6	6	6	6	6	6	6	6	6	
	3.	UCL Sampling																		
		# of Wells					0	70	78	5	20	29	55	89	69	16	33	69		
		\$/sample					\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	
		Samples/Year					6	6	6	6	6	6	6	6	6	6	6	6	6	
		Sub-total Restoration Analyses					\$0	\$151,000	\$188,300	\$19,000	\$19,280	\$64,200	\$153,800	\$181,800	\$131,100	\$33,200	\$63,300	\$129,900	\$1,200	
	B.	Short-term Stability																		
		Estimated Stabilization Period (Months)					1	1	1	1	1	1	1	1	1	1	1	1	1	
		# of Wells					0	0	0	0	0	0	0	0	0	0	0	0	0	
		Samples/Year	OUT				0	0	0	0	0	0	0	0	0	0	0	0	0	
		\$/sample					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		# of Wells					5	20	31	6	2	9	31	21	12	4	6	6	6	
		Samples/Year					6	6	6	6	6	6	6	6	6	6	6	6	6	
		\$/sample (Short list)					\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	
		# of Wells					5	20	31	6	2	9	31	21	12	4	6	6	6	
		Samples/Year					2	2	2	2	2	2	2	2	2	2	2	2	2	
		\$/sample (Guideline 8)					\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	
		Sub-total Short-term Stability Analyses					\$4,100	\$16,400	\$25,420	\$4,920	\$1,640	\$7,380	\$25,420	\$17,220	\$9,840	\$3,280	\$4,920	\$4,920	\$0	
		Subtotal Monitoring and Sampling Costs per Wellfield					\$4,100	\$167,400	\$213,720	\$23,920	\$20,920	\$71,580	\$179,220	\$199,020	\$140,940	\$36,480	\$68,220	\$134,820		
		Total Monitoring and Sampling Costs					\$1,260,340													
	VII.	Mechanical Integrity Test (MIT) Costs																		
		Five Year MIT Unit Cost (\$/well)					\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	
		Number of Wells (30% of Inj. and Rest. Wells)					19	105	109	0	0	27	92	275	98	20	71	72	0	
		Subtotal Mechanical Integrity Testing Costs per Wellfield					\$3,402	\$18,846	\$19,548	\$0	\$0	\$4,914	\$16,578	\$49,572	\$17,658	\$3,618	\$12,744	\$12,960	\$0	
		Total Mechanical Integrity Testing Cost					\$159,840													
	TOTAL RESTORATION COSTS PER WELLFIELD							\$24,013	\$328,517	\$495,613	\$30,613	\$67,020		\$400,587	\$938,019	\$388,407	\$84,577	\$264,488	\$477,256	\$0
	TOTAL WELLFIELD RESTORATION COST							\$3,633,159												
	VIII.	Building Utility Costs					Central Plant	Main Office	Satellite No.1	Satellite No.2	Satellite No.3									
		Electricity (\$/Month)					\$0	\$0	\$0	\$8,500	\$8,500									
		Propane (\$/Month)					\$0	\$0	\$0	\$0	\$0									
		Natural Gas (\$/Month)				OUT	\$0	\$0	\$0	\$0	\$0									
		Number of Months					0	60	6	48	48									
		Subtotal Utility Costs per Building					\$0	\$0	\$0	\$408,000	\$408,000									
		Total Building Utility Costs					\$816,000													

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

Ground Water Restoration																			
IX. Irrigation Maintenance and Monitoring Costs										Irrigator No.1	Irrigator No.2								
A. Irrigation Maintenance and Repair																			
Irrigation Operation Months/Year										6	6								
Cost per Month										\$667	\$667								
Total Number of Years										5	5								
Subtotal Maintenance and Repair Costs										\$20,010	\$20,010								
B. Irrigation Monitoring and Sampling																			
# of Irrigation Fluid Samples/Year										6	6								
Cost/sample										\$108	\$108								
# of Vegetation Samples/Year										4	4								
Cost/sample										\$200	\$200								
# of Soil Samples/Year										28	32								
Cost/sample										\$176	\$176								
# of Soil Water Samples/Year										12	2								
Cost/sample										\$108	\$108								
Total Number of Years										5	5								
Subtotal Sampling Costs										\$38,360	\$36,480								
Subtotal Maintenance and Monitoring Costs per Irrigator										\$58,370	\$56,490								
Total Irrigation Maintenance and Monitoring Costs										\$114,860									
X. Capital Costs (RO Purchase)																			
Purchase/Installation Costs for 1X400 gpm Units										\$600,000									
Total Capital Costs										\$1,200,000									
XI. Vehicle Operation Costs																			
Number of Pickup Trucks/Pulling Units (Gas)										0									
Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)										\$0.00									
Unit Cost in \$/hr (July 1998 dollars w/o escalator)										\$0.00									
Average Operating Time (Hrs/Year)										0									
Total Number of Years (Average)										0									
Total Vehicle Operation Costs										\$0									
XII. Labor Costs																			
Number of Environmental Managers/RSOs										0.5									
\$/Year (1/2 costs to Highland, 1/2 costs to Smith Ranch)										\$100,000									
Number of Restoration Managers										0.5									
\$/Year (1/2 costs to Highland, 1/2 costs to Smith Ranch)										\$80,000									
Number of Environmental Technician										2									
\$/Year										\$34,000									
Number of Operators/Laborers										7									
\$/Year										\$34,000									
Number of Maintenance Technician										2									
\$/Year										\$34,000									
Number of Years										5									
Total Labor Costs										\$2,320,000									
TOTAL GROUND WATER RESTORATION COSTS										\$8,084,019									

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

Equipment Removal and Loading				Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
I. Removal and Loading Costs							
A.	Tankage						
	Number of Tanks			26	8	14	18
	Volume of Tank Construction Material (ft ³)			1028	162	290	397
1.	Labor						
	Number of Persons			3	3	3	3
	Ft ³ /Day			25	25	25	25
	Number of Days			41	6	12	16
	\$/Day/Person			\$120	\$120	\$120	\$120
	Subtotal Labor Costs			\$14,760	\$2,160	\$4,320	\$5,760
2.	Equipment						
	Number of Days			41	6	12	16
	\$/Day NC			\$338	\$338	\$338	\$338
	Subtotal Equipment Costs			\$13,858	\$2,028	\$4,056	\$5,408
	Subtotal Tankage Removal and Loading Costs			\$28,618	\$4,188	\$8,376	\$11,168
B.	PVC Pipe						
	PVC Pipe Footage			5000	1000	4000	4000
	Average PVC Pipe Diameter (inches)			3	3	3	3
	Shredded PVC Pipe Volume Reduction (ft ³ /ft)			0.016	0.016	0.016	0.016
	Volume of Shredded PVC Pipe (ft ³)			80	16	64	64
1.	Labor						
	Number of Persons			2	2	2	2
	Ft/Day			200	200	200	200
	Number of Days			25	5	20	20
	\$/Day/Person			\$120	\$120	\$120	\$120
	Subtotal Labor Costs			\$6,000	\$1,200	\$4,800	\$4,800
	Subtotal PVC Pipe Removal and Loading Costs			\$6,000	\$1,200	\$4,800	\$4,800
C.	Pumps						
	Number of Pumps			50	10	14	13
	Average Volume (ft ³ /pump)			4.93	4.93	4.93	4.93
	Volume of Pumps (ft ³)			246.5	49.3	69.02	64.09
1.	Labor						
	Number of Persons			1	1	1	1
	Pumps/Day			2	2	2	2
	Number of Days			25	5	7	7
	\$/Day/Person			\$120	\$120	\$120	\$120
	Subtotal Labor Costs			\$3,000	\$600	\$840	\$840
	Subtotal Pump Removal and Loading Costs			\$3,000	\$600	\$840	\$840
D.	Dryer						
	Dryer Volume (ft ³)			885	0	0	0
1.	Labor						
	Number of Persons			5	0	0	0
	Ft ³ /Day			175	0	0	0
	Number of Days			5	0	0	0
	\$/Day/Person			\$120	\$120	\$120	\$120
	Total Labor Cost			\$3,000	\$0	\$0	\$0
	Total Dryer Dismantling and Loading Cost			\$3,000	\$0	\$0	\$0
E.	RO Units						
	Number of RO Units						

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

Equipment Removal and Loading				Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
		Current		0	3	0	0
		Planned		0	0	1	1
		Average Volume (ft ³ /RO Unit)		250	250	250	250
	1.	Labor					
		Number of Persons		2	2	2	2
		Number of Days		0	1.5	0.5	0.5
		\$/Day/Person		\$120	\$120	\$120	\$120
		Subtotal Labor Costs		\$0	\$360	\$120	\$120
		Subtotal RO Unit Removal and Loading Costs		\$0	\$360	\$120	\$120
		Subtotal Equipment Removal and Loading Costs per Facility		\$40,618	\$6,348	\$14,136	\$16,928
		Total Equipment Removal and Loading Costs		\$78,030			
II. Transportation and Disposal Costs (NRC-Licensed Facility)							
	A.	Tankage					
		Volume of Tank Construction Material (ft ³)		1028	162	290	397
		Volume for Disposal Assuming 10% Void Space (ft ³)		1131	178	319	436
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal Tankage Transportation and Disposal Costs		\$13,572	\$2,136	\$3,828	\$5,232
	B.	PVC Pipe					
		Volume of Shredded PVC Pipe (ft ³)		80	16	64	64
		Volume for Disposal Assuming 10% Void Space (ft ³)		88	18	70	70
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal PVC Pipe Transportation and Disposal Costs		\$1,056	\$216	\$840	\$840
	C.	Pumps					
		Volume of Pumps (ft ³)		246.5	49.3	69.02	64.09
		Volume for Disposal Assuming 10% Void Space (ft ³)		271	54	76	70
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal Pump Transportation and Disposal Costs		\$3,252	\$648	\$912	\$840
	D.	Dryer					
		Dryer Volume (ft ³)		885	0	0	0
		Volume for Disposal Assuming Dryer Remains Intact (ft ³)		885	0	0	0
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Total Dryer Transportation and Disposal Costs		\$10,620	\$0	\$0	\$0
	E.	RO Units					
		Volume of RO Units (ft ³)		0	750	250	250
		Volume for Disposal Assuming 50% Volume Reduction (ft ³)		0	375	125	125
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal RO Unit Transportation and Disposal Costs		\$0	\$4,500	\$1,500	\$1,500
		Subtotal Equipment Transportation and Disposal Costs per Facility		\$28,500	\$7,500	\$7,080	\$8,412
		Total Equipment Transportation and Disposal Costs		\$51,492			
III. Health and Safety Costs							
		Radiation Safety Equipment		\$1,250	\$1,250	\$1,250	\$1,250
		Total Health and Safety Costs		\$5,000			
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				\$70,368	\$15,098	\$22,466	\$26,590
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$134,522			

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

				Central	Dryer	Satellite	Satellite	Satellite	Sat. No.3	Yellow Cake	South	Suspended
Building Demolition and Disposal				Plant	Building	No. 1	No. 2	No. 3	Fab. Shop	Warehouse	Warehouse	Walkway
I.	Decontamination Costs											
	A.	Wall Decontamination										
		Area to be Decontaminated (ft²)		131000	0	0	0	0	0	0	0	0
		Application Rate (Gallons/ft²)		OUT 0	0	0	0	0	0	0	0	0
		HCl Acid Wash, including labor (\$/ft³)		\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64
		Subtotal Wall Decontamination Costs		\$83,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	B.	Concrete Floor Decontamination										
		Area to be Decontaminated (ft²)		17820	0	6000	9600	9600	0	0	0	0
		Application Rate (Gallons/ft²)		OUT 0	0	0	0	0	0	0	0	0
		HCl Acid Wash, including labor (\$/ft³)		\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47
		Subtotal Concrete Floor Decontamination Costs		\$8,375	\$0	\$2,820	\$4,512	\$4,512	\$0	\$0	\$0	\$0
	C.	Deep Well Injection Costs										
		Total Kgals for Injection		148.82	0	6	9.6	9.6	0	0	0	0
		Deep Well Injection Unit Cost (\$/Kgals)		\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13
		Subtotal Deep Well Injection Costs		\$614	\$0	\$25	\$40	\$40	\$0	\$0	\$0	\$0
		Subtotal Decontamination Costs per Building		\$92,174	\$0	\$2,845	\$4,552	\$4,552	\$0	\$0	\$0	\$0
		Total Decontamination Costs		\$105,317								
II.	Demolition Costs											
	A.	Building										
		Assumptions:										
		Dryer bldg. demolition unit cost of \$0.73/ft² for additional radiation safety equipment										
		Volume of Building (ft³)		794000	30720	192000	320000	320000	37560	91000	333000	5600
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft³)		\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
		Unit Cost in \$/ft³ (July 1998 dollars w/o escalator)		OUT \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Building Demolition Costs		\$141,332	\$5,468	\$34,176	\$56,960	\$56,960	\$6,686	\$16,198	\$59,274	\$997
	B.	Concrete Floor										
		Area of Concrete Floor (ft²)		23760	0	8000	12800	12800	0	6500	18000	0
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft²)		\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40
		Unit Cost in \$/ft² (July 1998 dollars w/o escalator)		OUT \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Floor Demolition Costs		\$80,784	\$0	\$27,200	\$43,520	\$43,520	\$0	\$22,100	\$61,200	\$0
	C.	Concrete Footing										
		Length of Concrete Footing (ft)		622	0	360	480	480	0	360	580	0
		Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)		\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22
		Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)		OUT \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Footing Demolition Costs		\$7,601	\$0	\$4,399	\$5,866	\$5,866	\$0	\$4,399	\$7,088	\$0
		Subtotal Demolition Costs per Building		\$229,717	\$5,468	\$65,775	\$106,346	\$106,346	\$6,686	\$42,697	\$127,562	\$997
		Total Demolition Costs		\$847,258								
III.	Disposal Costs											
	A.	Building										
		Volume of Building (cy)		29407	1138	7111	11852	11852	1391	3370	12333	207
		1. On-Site										
		Assumptions:										
		On-site disposal cost of \$1.25/cy										
		Percentage (%)		100	0	100	100	100	100	100	100	100

				Central	Dryer	Satellite	Satellite	Satellite	Sat. No.3	Yellow Cake	South	Suspended
Building Demolition and Disposal				Plant	Building	No. 1	No. 2	No. 3	Fab. Shop	Warehouse	Warehouse	Walkway
		Subtotal On-Site Disposal Costs		\$36,759	\$0	\$8,889	\$14,815	\$14,815	\$1,739	\$4,213	\$15,417	\$259
		2. NRC-Licensed Facility										
		Percentage (%)		0	100	0	0	0	0	0	0	0
		Volume for Disposal (ft³)		0	2624	0	0	0	0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft³)		0	2886	0	0	0	0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft³)		\$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	\$34,632	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Subtotal Building Disposal Costs		\$36,759	\$34,632	\$8,889	\$14,815	\$14,815	\$1,739	\$4,213	\$15,417	\$259
	B.	Concrete Floor										
		Area of Concrete Floor (ft²)		23760	0	8000	12800	12800	0	6500	18000	0
		Average Thickness of Concrete Floor (ft)		0.75	0	0.67	0.67	0.67	0	0.5	0.5	0
		Volume of Concrete Floor (ft³)		17820	0	5360	8576	8576	0	3250	9000	0
		Volume of Concrete Floor (cy)		660	0	199	318	318	0	120	333	0
		1.	On-Site									
		Percentage (%)		75	0	75	75	75	0	100	100	0
		Volume for Disposal (cy)		495	0	149	238	238	0	120	333	0
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal On-Site Disposal Costs		\$3,163	\$0	\$951	\$1,522	\$1,522	\$0	\$769	\$2,130	\$0
		2. NRC-Licensed Facility										
		Assumptions:										
		Additional \$2.60/ft³ for segregation of concrete										
		Percentage (%)		25	0	25	25	25	0	0	0	0
		Volume for Disposal (ft³)		4455	0	1340	2144	2144	0	0	0	0
		Segregation and Loading Unit Cost (\$/ft³)		\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
		Transportation and Disposal Unit Cost (\$/ft³)		\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal NRC-Licensed Facility Disposal Costs		\$65,043	\$0	\$19,564	\$31,302	\$31,302	\$0	\$0	\$0	\$0
		Subtotal Concrete Floor Disposal Costs		\$68,206	\$0	\$20,515	\$32,824	\$32,824	\$0	\$769	\$2,130	\$0
	C.	Concrete Footing										
		Length of Concrete Footing (ft)		622	0	360	480	480	0	360	580	0
		Average Depth of Concrete Footing (ft)		4	4	4	4	4	4	4	4	0
		Average Width of Concrete Footing (ft)		1	1	1	1	1	1	1	1	0
		Volume of Concrete Footing (ft³)		2488	0	1440	1920	1920	0	1440	2320	0
		Volume of Concrete Footing (cy)		92	0	53	71	71	0	53	86	0
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Footing Disposal Costs		\$589	\$0	\$341	\$454	\$454	\$0	\$341	\$549	\$0
		Subtotal Disposal Costs per Building		\$105,554	\$34,632	\$29,745	\$48,093	\$48,093	\$1,739	\$5,323	\$18,096	\$259
		Total Disposal Costs		\$309,512								
III. Health and Safety Costs												
		Radiation Safety Equipment NC		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0
		Total Health and Safety Costs		\$5,000								
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS				\$428,445	\$41,100	\$99,365	\$159,991	\$159,991	\$8,425	\$48,02		

				Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
Building Demolition and Disposal											
I.	Decontamination Costs										
	A.	Wall Decontamination									
		Area to be Decontaminated (ft ²)			0	0	0	0	0	0	0
		Application Rate (Gallons/ft ²)		OUT	0	0	0	0	0	0	0
		HCl Acid Wash, including labor (\$/ft ³)			\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64	\$0.64
		Subtotal Wall Decontamination Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	B.	Concrete Floor Decontamination									
		Area to be Decontaminated (ft ²)			0	0	0	0	0	0	0
		Application Rate (Gallons/ft ²)		OUT	0	0	0	0	0	0	0
		HCl Acid Wash, including labor (\$/ft ³)			\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47
		Subtotal Concrete Floor Decontamination Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	C.	Deep Well Injection Costs									
		Total Kgals for Injection			0	0	0	0	0	0	0
		Deep Well Injection Unit Cost (\$/Kgals)			\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13
		Subtotal Deep Well Injection Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Subtotal Decontamination Costs per Building			\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Total Decontamination Costs									
II.	Demolition Costs										
	A.	Building									
		Assumptions:									
		Dryer bldg. demolition unit cost of \$0.73/ft ² for additional radiation safety equipment									
		Volume of Building (ft ³)			73000	27000	72000	20000	16500	6300	0
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
		Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Building Demolition Costs			\$12,994	\$4,806	\$12,816	\$3,560	\$2,937	\$1,121	\$0
	B.	Concrete Floor									
		Area of Concrete Floor (ft ²)			5400	2100	6000	0	800	180	1256
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ²)			\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40
		Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Floor Demolition Costs			\$18,360	\$7,140	\$20,400	\$0	\$2,720	\$612	\$4,270
	C.	Concrete Footing									
		Length of Concrete Footing (ft)			300	200	340	0	120	54	0
		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
		Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Footing Demolition Costs			\$3,666	\$2,444	\$4,155	\$0	\$1,466	\$660	\$0
		Subtotal Demolition Costs per Building			\$35,020	\$14,390	\$37,371	\$3,560	\$7,123	\$2,393	\$4,270
		Total Demolition Costs									
III.	Disposal Costs										
	A.	Building									
		Volume of Building (cy)			2704	1000	2667	741	611	233	0
		1. On-Site									
		Assumptions:									
		On-site disposal cost of \$1.25/cy									
		Percentage (%)			100	100	100	100	100	100	0
		Volume for Disposal (cubic yards)			2704	1000	2667	741	611	233	0
		Disposal Unit Cost (\$/cy)			\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25

				Changehouse	Maintenance	Main	Office	Process/Fire	Potable	Potable Water	Central Plant	
Building Demolition and Disposal				and Lab Bldg.	Building	Office	Trailers	Water Bldg.	Water Bldg.	Tank Slab	Tank Slabs	
			Subtotal On-Site Disposal Costs		\$3,380	\$1,250	\$3,333	\$926	\$764	\$292	\$0	\$0
		2.	NRC-Licensed Facility									
			Percentage (%)		0	0	0	0	0	0	0	0
			Volume for Disposal (ft³)		0	0	0	0	0	0	0	0
			Volume for Disposal Assuming 10% Void Space (ft³)		0	0	0	0	0	0	0	0
			Transportation and Disposal Unit Cost (\$/ft³)		\$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
			Subtotal Building Disposal Costs		\$3,380	\$1,250	\$3,333	\$926	\$764	\$292	\$0	\$0
		B.	Concrete Floor									
			Area of Concrete Floor (ft²)		5400	2100	6000	0	800	180	1256	7854
			Average Thickness of Concrete Floor (ft)		0.5	0.5	0.5	0	0.5	0.5	1	1
			Volume of Concrete Floor (ft³)		2700	1050	3000	0	400	90	1256	7854
			Volume of Concrete Floor (cy)		100	39	111	0	15	3	47	291
		1.	On-Site									
			Percentage (%)		100	100	100	0	100	100	100	100
			Volume for Disposal (cy)		100	39	111	0	15	3	47	291
			Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
			Unit Cost in \$/cy (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			Subtotal On-Site Disposal Costs		\$639	\$249	\$710	\$0	\$95	\$21	\$297	\$1,859
		2.	NRC-Licensed Facility									
			Assumptions:									
			Additional \$2.60/ft³ for segregation of concrete									
			Percentage (%)		0	0	0	0	0	0	0	0
			Volume for Disposal (ft³)		0	0	0	0	0	0	0	0
			Segregation and Loading Unit Cost (\$/ft³)		\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
			Transportation and Disposal Unit Cost (\$/ft³)		\$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
			Subtotal Concrete Floor Disposal Costs		\$639	\$249	\$710	\$0	\$95	\$21	\$297	\$1,859
		C.	Concrete Footing									
			Length of Concrete Footing (ft)		300	200	340	0	120	54	0	0
			Average Depth of Concrete Footing (ft)		4	4	4	0	4	4	4	4
			Average Width of Concrete Footing (ft)		1	1	1	0	1	1	1	1
			Volume of Concrete Footing (ft³)		1200	800	1360	0	480	216	0	0
			Volume of Concrete Footing (cy)		44	30	50	0	18	8	0	0
			Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
			Unit Cost in \$/cy (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
			Subtotal Concrete Footing Disposal Costs		\$284	\$189	\$322	\$0	\$114	\$51	\$0	\$0
			Subtotal Disposal Costs per Building		\$4,303	\$1,688	\$4,365	\$926	\$973	\$364	\$297	\$1,859
			Total Disposal Costs									
III. Health and Safety Costs												
			Radiation Safety Equipment NC		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Total Health and Safety Costs									
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					\$39,323	\$16,078	\$41,736	\$4,486	\$8,096	\$2,757	\$4,567	\$28,563
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS												

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

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-G	Mine Unit-H	Mine Unit-I	Mine Unit-J	Mine Unit-K	Mine Unit-L
I. Wellfield Piping															
Assumptions:															
Number of Header Houses per Wellfield				5	18	20	4	15	43	10	3	6	7		
Length of Piping per Header House (ft)				15000	15000	15000	15000	15000	15000	15000	15000	15000	12500		
Total Length of Piping (ft)				75000	270000	300000	60000	225000	645000	150000	45000	90000	87500		
A. Removal and Loading															
Wellfield Piping Removal Unit Cost (\$/ft of pipe)				\$0.42	\$0.42	\$0.42	\$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				\$31,500	\$113,400	\$126,000	\$25,200	\$94,500	\$270,900	\$63,000	\$18,900	\$37,800	\$36,750		\$0
B. Transport and Disposal Costs (NRC-Licensed Facility)															
Average Diameter of Piping (inches)				2	2	2	2	2	2	2	2	2	2	2	2
Chipped Volume Reduction (ft ³ /ft)				0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft ³)				375	1350	1500	300	1125	3225	750	225	450	437.5		0
Volume for Disposal Assuming 10% Void Space (ft ³)				413	1485	1650	330	1238	3548	825	248	495	481		0
Transportation and Disposal Unit Cost (\$/ft ³)				\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
Subtotal Wellfield Piping Transport and Disposal Costs				\$4,956	\$17,820	\$19,800	\$3,960	\$14,856	\$42,576	\$9,900	\$2,976	\$5,940	\$5,772		\$0
Wellfield Piping Costs per Wellfield				\$36,456	\$131,220	\$145,800	\$29,160	\$109,356	\$313,476	\$72,900	\$21,876	\$43,740	\$42,522		\$0
C. Capitol Costs															
PVC Pipe Shredder (Cost covered in SR Surety)				\$0											
Total Wellfield Piping Costs				\$946,506											
II. Well Pumps and Tubing															
Assumptions:															
Pump and tubing removal costs included under ground water restoration labor costs															
60% of production/injection wells contain pumps and/or tubing															
A. Pump and Tubing Transportation and Disposal															
Number of Production Wells				27	141	192	45	143	465	155	30	125	122		
Number of Injection Wells				50	319	343	91	307	903	327	67	236	234		0
1. Pump Volume															
Number of Production Wells with Pumps				16	85	115	27	86	279	93	18	75	73		0
Average Pump Volume (ft ³)				1	1	1	1	1	1	1	1	1	1		1
Pump Volume per Wellfield (ft ³)				16	85	115	27	86	279	93	18	75	73		0
2. Tubing Volume															
Assumptions:															
Average tubing length/wellfield based on average well depth minus 25 ft															
Number of Production Wells with Tubing				16	85	115	27	86	279	93	18	75	73		0
Number of Injection Wells with Tubing				30	191	206	55	184	542	196	40	142	140		0
Average Tubing Length per Well (ft)				475	425	525	575	525	625	475	575	625	515		
Tubing Length per Wellfield (ft)				21850	117300	168525	47150	141750	513125	137275	33350	135625	109695		0
Diameter of Production Well Fiberglass Tubing (inches)				2	2	2	2	2	2	2	2	2	2		2
Diameter of Injection Well HDPE Tubing (inches)				1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25		1.25
Chipped Volume Reduction (ft ³ /ft)				0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		0.005
Chipped Volume per Wellfield (ft ³)				109	587	843	236	709	2566	686	167	678	548		0
Volume of Pump and Tubing (ft ³)				125	672	958	263	795	2845	779	185	753	621		0
Volume for Disposal Assuming 10% Void Space (ft ³)				138	739	1054	289	875	3130	857	204	828	683		0
Transportation and Disposal Unit Cost (\$/ft ³)				\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
Subtotal Pump and Tubing Transport and Disposal Costs				\$1,656	\$8,868	\$12,648	\$3,468	\$10,500	\$37,560	\$10,284	\$2,448	\$9,936	\$8,196		\$0
Pump and Tubing Costs per Wellfield				\$1,656	\$8,868	\$12,648	\$3,468	\$10,500	\$37,560	\$10,284	\$2,448	\$9,936	\$8,196		\$0
Total Pump and Tubing Costs				\$105,564											
III. Buried Trunkline				A/B-Wellfields			D/E-Wellfields								
Assumptions:															
A/B-Wellfields use the same trunkline															
D/E-Wellfields use the same trunkline															
Length of Trunkline Trench (ft)				6500		5900	12000		11700	13200	5500	10750	2500		0
A. Removal and Loading															
Main Pipeline Removal Unit Cost (\$/ft of trench)				\$0.89		\$0.89	\$0.89		\$0.89	\$0.89	\$0.89	\$0.89	\$0.89		\$0.89
Subtotal Trunkline Removal and Loading Costs				\$5,785		\$5,251	\$10,680		\$10,413	\$11,748	\$4,895	\$9,568	\$2,225		\$0
B. Transport and Disposal Costs (NRC-Licensed Facility)															

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

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
1.	3" HDPE Trunkline													
	Piping Length (ft)			6500		5900	12000		11700	13200	5500	10750	0	0
	Chipped Volume Reduction (ft ³ /ft)			0.022		0.022	0.022		0.022	0.022	0.022	0.022	0.022	0.022
	Chipped Volume (ft ³)			143		129.8	264		257.4	290.4	121	236.5	0	0
2.	6" HDPE Trunkline													
	Piping Length (ft)			0		0	0		0	0	11000	3000	0	0
	Chipped Volume Reduction (ft ³ /ft)			0.078		0.078	0.078		0.078	0.078	0.078	0.078	0.078	0.078
	Chipped Volume (ft ³)			0		0	0		0	0	858	234	0	0
3.	10" HDPE Trunkline													
	Piping Length (ft)			13000		0	0		0	0	0	750	2000	0
	Chipped Volume Reduction (ft ³ /ft)			0.277		0.277	0.277		0.277	0.277	0.277	0.277	0.277	0.277
	Chipped Volume (ft ³)			3601		0	0		0	0	0	207.75	554	0
4.	12" HDPE Trunkline													
	Piping Length (ft)			0		11800	24000		0	0	0	0	2000	0
	Chipped Volume Reduction (ft ³ /ft)			0.293		0.293	0.293		0.293	0.293	0.293	0.293	0.293	0.293
	Chipped Volume (ft ³)			0		3457.4	7032		0	0	0	0	586	0
5.	14" HDPE Trunkline													
	Piping Length (ft)			0		0	0		23400	26400	0	8500	0	0
	Chipped Volume Reduction (ft ³ /ft)			0.359		0.359	0.359		0.359	0.359	0.359	0.359	0.359	0.359
	Chipped Volume (ft ³)			0		0	0		8400.6	9477.6	0	3051.5	0	0
6	18" HDPE Trunkline													
	Piping Length (ft)			0	0	0	0	0	0	0	0	0	0	0
	Chipped Volume Reduction (ft ³ /ft)			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
	Chipped Volume (ft ³)			0	0	0	0	0	0	0	0	0	0	0
	Total Trunkline Chipped Volume (ft ³)			3744	0	3587.2	7296		8658	9768	979	3729.75	1140	0
	Volume for Disposal Assuming 10% Void Space (ft ³)			4118		3946	8026		9524	10745	1077	4103	1254	0
	Transportation and Disposal Unit Cost (\$/ft ³)			\$12.00		\$12.00	\$12.00		\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal Trunkline Transport and Disposal Costs			\$49,416		\$47,352	\$96,312		\$114,288	\$128,940	\$12,924	\$49,236	\$15,048	\$0
	Trunkline Decommissioning Costs per Wellfield			\$55,201		\$52,603	\$106,992		\$124,701	\$140,688	\$17,819	\$58,804	\$17,273	\$0
	Total Trunkline Decommissioning Costs			\$574,081										
IV.	Well Houses													
	Total Quantity			90	490	554	136	450	1383	482	97	361	213	
	Average Well House Volume (ft ³)			12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
A.	Removal													
	Total Volume (ft ³)			1125	6125	6925	1700	5625	17287.5	6025	1212.5	4512.5	2662.5	0
	Demolition Unit Cost per WDEQ Guideline No.12.App.K (\$/ft ³)			\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Well House Demolition Costs			\$200	\$1,090	\$1,233	\$303	\$1,001	\$3,077	\$1,072	\$216	\$803	\$474	\$0
B.	Survey and Decontamination													
	Assumptions:													
	Cost per Well House			4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
	Subtotal Survey and Decontamination Costs			\$404	\$2,200	\$2,487	\$611	\$2,021	\$6,210	\$2,164	\$436	\$1,621	\$956	\$0
C.	Disposal													
	Total Volume (cy)			42	227	256	63	208	640	223	45	167	99	0
	Volume for Disposal Assuming 10% Void Space (cy)			46	250	282	69	229	704	245	49	184	108	0
	Disposal Unit Cost per WDEQ Guideline No.12.App.K (\$/cy)			\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal On-Site Disposal Costs			\$294	\$1,598	\$1,802	\$441	\$1,463	\$4,499	\$1,566	\$313	\$1,176	\$690	\$0
	Well House Removal and Disposal Costs per Wellfield			\$898	\$4,888	\$5,522	\$1,355	\$4,485	\$13,786	\$4,802	\$965	\$3,600	\$2,120	\$0
	Total Well House Removal and Disposal Costs			\$42,421										
VI.	Header Houses													
	Total Quantity			5	18	20	4	15	43	10	3	6	9	
	Average Header House Volume (ft ³)			1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	
A.	Removal													
	Total Volume (ft ³)			8000	28800	32000	6400	24000	68800	16000	4800	9600	14400	0
	Demolition Unit Cost per WDEQ Guideline No.12.App.K (\$/ft ³)			\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178

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

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
		Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Building Demolition Costs		\$1,424	\$5,126	\$5,696	\$1,139	\$4,272	\$12,246	\$2,848	\$854	\$1,709	\$2,563	\$0
	B.	Survey and Decontamination												
		Assumptions:												
		Cost per Header House		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
		Subtotal Survey and Decontamination Costs		\$1,000	\$3,600	\$4,000	\$800	\$3,000	\$8,600	\$2,000	\$600	\$1,200	\$1,800	\$0
	C.	Disposal												
		Total Volume (cy)		296	1067	1185	237	889	2548	593	178	356	533	0
		Volume for Disposal Assuming 10% Void Space (cy)		326	1173	1304	261	978	2803	652	196	391	587	0
		Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal On-Site Disposal Costs		\$2,083	\$7,495	\$8,333	\$1,668	\$6,249	\$17,911	\$4,166	\$1,252	\$2,498	\$3,751	\$0
		Header House Removal and Disposal Costs per Wellfield		\$4,507	\$16,221	\$18,029	\$3,607	\$13,521	\$38,757	\$9,014	\$2,706	\$5,407	\$8,114	\$0
		Total Header House Removal and Disposal Costs		\$119,883										
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD				\$98,718	\$161,197	\$234,602	\$144,582	\$137,862	\$528,280	\$237,688	\$45,814	\$121,487	\$78,225	\$0
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$1,788,455										

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

Well Abandonment				Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA	
I. Well Abandonment (Wellfields)															
	# of Production Wells			0	141	192	45	143	465	155	30	125	120		
	# of Injection Wells			0	319	343	91	307	903	327	67	236	240		
	# of Monitoring Wells			0	67	78	38	86	134	81	20	39	41		
	#of Restoration Wells			0	30	19	0	0	15	0	0	0	0	0	
	Total Number of Wells			0	557	632	174	536	1517	563	117	400	401	0	
	Average Diameter of Casing (inches)			5	5	5	5	5	5	5	5	5	5	4.5	
	Average Depth (ft)			500	450	550	600	550	650	500	600	650	540	500	
	Well Abandonment Unit Cost (\$/well)			\$359	\$354	\$365	\$370	\$365	\$375	\$359	\$370	\$375	\$365	\$359	
	Subtotal Abandonment Cost per Wellfield			\$0	\$197,173	\$230,369	\$64,339	\$195,376	\$568,913	\$202,258	\$43,263	\$150,010	\$146,168	\$0	
	Total Wellfield Abandonment Costs				\$1,797,869										
II. Waste Disposal Well Abandonment				Morton No.1-20	Vollman No.33-27	(Construction not anticipated)									
	A. Well Plugging														
	Drill Rig Operation (\$/hr)			150	0										
	Number of Hours			31	0										
	Drill Rig Operating Costs			\$4,650	\$0										
	Cementing Costs			\$7,500	\$0										
	Equipment Transport Costs			\$1,000	\$0										
	Well Cap Welding Costs			\$1,000	\$0										
	Brine Makeup and Injection Costs			\$1,500	\$0										
	Subtotal Well Plugging Costs per Well			\$15,650	\$0	77,763	New total plugging cost								
	B. Pump Dismantling and Decontamination														
	Number of Persons NC			2	0										
	Number of Pumps NC			2	0										
	Pumps/Day NC			0.5	0										
	Number of Days NC			4	0										
	\$/Day/Person			\$120	\$0										
	Subtotal Dismantling and Decon Costs per Well			\$960	\$0										
	C. Tubing String Disposal (NRC-Licensed Facility)														
	Length of Tubing String (ft)			9000	0										
	Diameter of Tubing String (inches)			2.875	0										
	Volume of Tubing String (ft ³)			406	0										
	Transportation and Disposal Unit Cost (\$/ft ³)			\$12.00	\$0.00										
	Subtotal Tubing String Disposal Costs per Well			\$4,866	\$0										
	Subtotal Waste Disposal Well Abandonment Costs per Well			\$83,589	\$0										
	Total Waste Disposal Well Abandonment Costs			\$83,589											
TOTAL WELL ABANDONMENT COSTS				\$1,881,458											

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

Wellfield and Satellite Surface Reclamation			Mine Unit-A/B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
I. Wellfield Pattern Area Reclamation												
	Pattern Area (acres)		20	31	6.5	23	77	26	5	21	28	0
	Disking/Seeding Unit Cost (\$/acre)		\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235
	Subtotal Pattern Area Reclamation Costs per Wellfield		\$4,700	\$7,285	\$1,528	\$5,405	\$18,095	\$6,110	\$1,175	\$4,935	\$6,580	\$0
	Total Wellfield Pattern Area Reclamation Costs		\$55,813									
II. Wellfield Road Reclamation												
A.	Road Construction Before January 1, 1997											
	Length of Wellfield Roads (1000 ft)		12.2	11.3	2.4	13.3	15	0	0	0	0	0
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)		\$802	\$802	\$802	\$802	\$802	\$802	\$802	\$802	\$802	\$802
	Subtotal Pre-1997 Wellfield Road Reclamation Costs		\$9,784	\$9,063	\$1,925	\$10,667	\$12,030	\$0	\$0	\$0	\$0	\$0
B.	Road Construction After January 1, 1997											
	Length of Wellfield Roads (1000 ft)		0.6	0	0	0	3	15.7	5	5	5	
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)		\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403
	Subtotal Post-1997 Wellfield Road Reclamation Costs		\$242	\$0	\$0	\$0	\$1,209	\$6,327	\$2,015	\$2,015	\$2,015	\$0
	Subtotal Road Reclamation Costs per Wellfield		\$10,026	\$9,063	\$1,925	\$10,667	\$13,239	\$6,327	\$2,015	\$2,015	\$2,015	\$0
	Total Wellfield Road Reclamation Costs		\$57,292									
SUBTOTAL SURFACE RECLAMATION COSTS PER WELLFIELD			\$14,726	\$16,348	\$3,453	\$16,072	\$31,334	\$12,437	\$3,190	\$6,950	\$8,595	\$0
TOTAL WELLFIELD SURFACE RECLAMATION COSTS			\$113,105									
III. Satellite Area Reclamation			Satellite No.1	Satellite No.2	Satellite No.3							
	Assumptions:											
	Area of Disturbance (acres)		1	1	1							
	Average Depth of Stripped Topsoil (ft)		1	0.67	0.67							
	Surface Grade: Level Ground											
	Average Length of Topsoil Haul (ft)		1000	500	500							
A.	Ripping Overburden with Dozer											
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)		\$814.22	\$814.22	\$814.22							
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00							
	Subtotal Ripping Costs		\$814	\$814	\$814							
B.	Topsoil Application with Scraper											
	Volume of Topsoil Removed (cy)		1613	1081	1081							
	Application Unit Cost per WDEQ Guideline No.12, App.C (\$/cy) NC		\$0.71	\$0.60	\$0.60							
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00							
	Subtotal Topsoil Application Costs		\$1,145	\$649	\$649							
C.	Discing and Seeding											
	Discing/Seeding Unit Cost (\$/acre)		\$235	\$235	\$235							
	Subtotal Discing/Seeding Costs		\$235	\$235	\$235							
	Subtotal Surface Reclamation Costs per Satellite		\$2,194	\$1,698	\$1,698							
	Total Satellite Building Area Reclamation Costs		\$5,590									
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS			\$118,695									

Miscellaneous Reclamation									
I.	CPF/Office Area Reclamation								
	Assumptions								
	Concrete, asphalt, and building material used to backfill low areas								
	No topsoil salvaged or applied (area is pre-law)								
	CPF/Office area = 10 acres								
A.	Ripping and Hauling Asphalt								
	Assumptions								
	Average haul distance (ft)			500					
	Surface grade (%)			0%					
	Average Thickness of Asphalt (ft)			0.5					
	Surface Area (acres)			3.4					
	Ripping Unit Cost per WDEQ Guideline No.12, App.I (\$/acre)			\$814.22					
	Volume of Asphalt (cy)			2743					
	Hauling Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$0.73					
	Total Asphalt Ripping and Hauling Cost			\$4,757					
B.	Borrow Cover								
	1. Topsoil Removal/Replacement								
	Assumptions								
	Surface area of borrow area (acres)			3					
	Six inches of topsoil removed and replaced at borrow area								
	Volume of topsoil (cy)			2420					
	Topsoil Removal/Replacement Unit Cost (\$/cy)			\$1.00					
	Total Topsoil Removal/Replacement Cost			\$2,420					
	2. Borrow Application								
	Assumptions								
	Final borrow cover depth will range from 0 to 4 ft, average = 1 ft								
	Average haul distance = 1000 ft								
	Surface grade (%)			0%					
	Borrow Volume (cy)			16133					
	Borrow Cover Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$0.87					
	Total Borrow Application Cost			\$13,971					
	Total Borrow Cover Cost			\$16,391					
C.	Discing/Seeding								
	Assumptions								
	Includes discing/seeding of borrow area (3 acres)								
	Surface Area (acres)			13					
	Discing/Seeding Unit Cost (\$/acre)			\$235					
	Total Discing/Seeding Costs			\$3,055					
	Total CPF/Office Area Reclamation			\$24,203					
II.	Access Road Reclamation				CPF/Office Area	Sat No. 1	Sat No. 3	Connecting Road	
A.	Assumptions								
	CPF/Office Area Road is pre-law (no topsoil applied)								
	Surface grade			5%		0%	0%	0%	
	Length of road (miles)			2.5		3	1	2	
	Average road width (ft)			25		30	30	30	
B.	Ripping and Hauling Asphalt								
	Assumptions								
	Average haul distance (miles)			1.25		0	0	0	
	Average Thickness of Asphalt (ft)			0.5		0	0	0	
	Asphalt Surface Area (acres)			7.6		0.0	0.0	0.0	
	Ripping Unit Cost per WDEQ Guideline No.12, App.I (\$/acre)			\$577.96		\$577.96	\$577.96	\$577.96	
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)		OUT	\$0.00		\$0.00	\$0.00	\$0.00	
	Volume of Asphalt (cy)			6111		0	0	0	
	Hauling Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$2.18		\$0.00	\$0.00	\$0.00	
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00		\$0.00	\$0.00	\$0.00	
	Subtotal Asphalt Ripping and Hauling Costs			\$17,701		\$0	\$0	\$0	
B.	Gravel Road Base Removal								
	Assumptions								
	Average haul distance (ft)			0					

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

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

RADIUM TREATMENT			
Assumptions:			
1. Based on actual 1998 operating costs from Satellite No. 2			
Radium Treatment Costs per 1000 Gallons			
	Chemical	= \$	0.177
	Filtration	= \$	0.021
	Electricity	= \$	0.048
	By Product Disposal of Sludge	= \$	0.097
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		= \$	0.34

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

GROUNDWATER SWEEP (GWS)														
Assumptions:														
1. All pumps are 5 hp pumping at 5.0 gpm														
2. Cost of electricity = \$0.048/kwh														
3. All water pumped is treated for radium removal at actual cost of \$0.31/1000 gallons														
4. All water pumped is disposed at irrigation facility with a 20 hp pump														
5. Repair and maintenance costs estimated at \$0.50/1000 gallons														
6. Process sampling and analysis costs estimated at \$0.03/1000 gallons														
7. Labor costs are not included														
Wellfield Pumping Costs per 1000 Gallons														
$\frac{1000 \text{ gal}}{1} \times \frac{5 \text{ hp}}{5 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.05}{\text{kwh}} = \$ 0.60$														
Radium Treatment Costs per 1000 Gallons														
$= \$ 0.34$														
Pumping to Irrigator Costs per 1000 Gallons														
$\frac{1000 \text{ gal}}{1} \times \frac{20 \text{ hp}}{400 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.05}{\text{kwh}} = \$ 0.03$														
Repair and Maintenance Costs per 1000 Gallons														
$= \$ 0.5$														
Process Sampling and Analysis Costs per 1000 Gallons														
$= \$ 0.03$														
TOTAL GWS COSTS PER 1000 GALLONS														
$= \$ 1.50$														

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

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

REVERSE OSMOSIS (RO) page 2								
6. The 20% reject is disposed at WDW with a 20 hp pump at actual cost of								
\$0.14/1000 gallons								
7. The permeate is returned to the wellfield with a 20 hp pump at actual cost of								
\$0.019/1000 gallons								
Pumping from Wellfield						= \$	0.37	
Pumping to Wellfield						= \$	0.019	
Pumping to WDW								
\$	0.14	X	0.2			= \$	0.0028	
	\$ 0.019	X	0.2			= \$	0.004	
Process Sampling and Analysis						= \$	0.03	

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

CHEMICAL REDUCTANT													
Assumptions:													
1. Bioremediation is utilized													
2. Based on actual 2003-2004 operating costs during restoration activities													
3. Added the cost of using cheese whey													
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal											= \$	0.3	
July 1998 Dollars											= \$	0.26	OUT

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

ELUTION PROCESSING														
Assumptions:														
1.	Based on actual operating costs													
TOTAL PROCESSING COSTS PER ELUTION = \$ 900														
			Costs removed from GW REST Workbook											

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

DEEP WELL INJECTION														
Assumptions:														
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														
Waste Disposal Pumping Costs per 1000 Gallons														
$\frac{1000 \text{ gal}}{1} \times \frac{150 \text{ hp}}{100 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ 0.048}{\text{kwh}} = \$ 0.90$														
Repair and Maintenance Costs per 1000 Gallons														
\$ 0.5														
Chemical Costs per 1000 Gallons														
\$ 2.73														
Scale Inhibitor = \$ 1.20														
Corrosion Inhibitor = \$ 1.16														
Oxygen Scavenger = \$ 0.37														
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS														
\$ 4.13														

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

WELL ABANDONMENT										
Assumptions:										
1	Typical 8 hour working day									
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 \$7.62and plug gel cost is \$5.95/sack.									
Fixed Costs										
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		
Variable Costs (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 ho	=	\$ 5.95			
		per 100 feet			plug					
WELL ABANDONMENT Page 2										
Total materials Cost (per 100 ft of well depth)							\$	63.10		
Total number of wells completed per/day										
	6									
Cost per Well per Unit of Average Depth										
Well Depth (ft)										
	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 HIGHLAND URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
Assumptions:									
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								
MIT Costs per Well									
Equipment:									
	Pulling Unit								
	8 hours	X	\$ 45	per hour				= \$	360.00
	MIT Unit								
	8 hours	X	\$ 45	per hour				= \$	360.00
Labor:									
	Pulling Unit								
	8 hours	X	\$ 15	per hour	X	2 workers		= \$	\$240.00
	MIT Unit								
	8 hours	X	\$ 15	per hour				= \$	120.00
TOTAL MIT COST PER DAY									= \$ 1080.00
	Wells Completed		6	per day					
MIT COSTS PER WELL									= \$ 180.00

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

MAIN PIPELINE REMOVAL									
Assumptions:									
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								
Main Pipeline Removal Costs per ft of Trench									
Equipment									
	Trackhoe								
		\$ 1125	X	1 week	X	1 days	= \$	0.30	
		week		5 days		750 ft			
	Fuel								
		\$ 10	X	8 hrs	X	1 days	= \$	0.11	
		hour		1 day		750 ft			
Labor									
	Trackhoe Operation								
		\$ 15	X	8 man hrs	X	1 days	= \$	0.16	
		man hr		1 day		750 ft			
	Pipeline Extraction								
		\$ 15	X	16 man hrs	X	1 day	= \$	0.32	
		man hr		1 day		750 ft			
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH							= \$	0.89	

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

WELLFIELD PIPING REMOVAL									
Assumptions:									
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									
Main Pipeline Removal Costs per ft of Pipe									
Equipment									
Backhoe									
		\$ 1000	X	1 week	X	1 days	= \$	0.13	
		week		5 days		1500 ft			
Fuel									
		\$ 10	X	8 hrs	X	1 days	= \$	0.05	
		hour		1 day		1500 ft			
Labor									
Backhoe Operation									
		\$ 15	X	8 man hrs	X	1 days	= \$	0.08	
		man hr		1 day		1500 ft			
Pipeline Extraction									
		\$ 15	X	16 man hrs	X	1 day	= \$	0.16	
		man hr		1 day		1500 ft			
MAIN PIPELINE REMOVAL COST PER FT OF PIPE = \$ 0.420									

WELLFIELD ROAD RECLAMATION									
Assumptions (Roads constructed before January 1, 1997):									
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			$\frac{\$41.87}{\text{acre}}$	= \$ 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			$\frac{\$45.65}{\text{acre}}$	= \$ 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			$\frac{\$235}{\text{acre}}$	= \$ 135
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
1000 FT OF ROAD (BEFORE JANUARY 1, 1997)									
								= \$ 802	
Assumptions (Roads constructed after January 1, 1997):									
1. Gravel road base will not be removed									
2. Roads scarified prior to topsoil application at cost of \$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			$\frac{\$41.87}{\text{acre}}$	= \$ 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			$\frac{\$45.65}{\text{acre}}$	= \$ 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			$\frac{\$235}{\text{acre}}$	= \$ 108
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
1000 FT OF ROAD (AFTER JANUARY 1, 1997)									
								= \$ 403	

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

BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL									
Assumptions:									
1.	Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.								
2.	Includes profit for transporter and disposal facility.								
3.	All types of waste shipped vi bulk container (30-yd ³ dumpster or 30-yd ³ dump truck).								
4.	Each shipment contains 30,000 lbs of material.								
		Transportation Cost				Disposal Cost			Total
			\$ 1.00 /ft ³	+		\$ 11.00 /ft ³	=		\$ 12.00 /ft ³
							=		\$ 12.00 /ft ³

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

DISKING/SEEDING								
Assumptions:								
1. Based on actual contractor costs								
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								
TOTAL DISKING/SEEDING COSTS PER ACRE	= \$	235						

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

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