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CROW BUTTE RESOURCES, INC.

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(308) 665-2215
(308) 665-2341 – FAX

September 25, 2007

Mr. Michael Linder
Director
Nebraska Department of Environmental Quality
PO Box 98922
Lincoln, Nebraska 68509-8922

Subject: 2008 Surety Estimate
Class III Underground Injection Control Permit Number NE 0122611
Class I Underground Injection Control Permit Number NE 0210457

Dear Mr. Linder:

Attached is the annual update to the surety estimate for the Crow Butte Uranium Mine. This estimate meets the requirements of Chapter 13 of Title 122, *Rules and Regulations for Underground Injection and Mineral Production Wells* and the annual update requirements included in the referenced permits issued by the Nebraska Department of Environmental Quality (NDEQ). Also attached as required in the approved minor permit modification dated August 21, 2007, is an audit statement from George W. Klein, an independent professional auditing firm.

The surety estimate for 2008 is $25,207,672, an increase of $2,226,759 over the 2007 surety estimate of $22,980,913. All costs are current to August 2007 with the exception of the Deep Disposal Well Decommissioning which has been escalated from the March 2004 Permit Re-application. Significant changes reflected in the surety estimate for 2008 include the following items:

1) The addition of the tanks and piping necessary to increase the flow through the Central Plant and the Restoration Circuit.

2) The estimate includes continued development of Mine Unit 11, with one wellhouse installed in this mine unit by the end of 2008. 366 wells are also projected for Mine Unit 11, which is an increase of 91 wells over the 2007 surety estimate. In addition, 131 additional wells are included for Mine Unit 10. In all, the 2008 surety includes the costs associated with 222 new wells installed in Mine Units 10 and 11. The areal extent of Mine Units 10 and 11 was increased by 1,203,100 square feet (27.4 acres) to reflect the projected expansion in these mine units. These additional mining wells and areas resulted in significant increases in the wellfield reclamation, and well plugging and abandonment costs; and

3) The 2008 escalation factor of 2.7% is based on the increase of the June 2007 Consumer Price Index (CPI) over the June 2006 CPI and was applied to labor and some materials. The Master Cost Basis sheets (sheets 29 through 33) indicate the basis for the increase in these cost elements.

The most significant factors contributing to the increased surety estimate include wellfield reclamation (+$595,465), contract administration (+$178,141), contingency (+$267,211), disposal of unpackaged bulk materials (+$523,756), and plant demolition costs (+$119,298). Some cost savings are realized under groundwater restoration due to the pumping efficiency achieved by increasing the restoration flow. Sheet 2 of the attached estimate presents the changes for selected cost elements over the 2007 surety estimate.

Upon approval of the surety estimate update by the NDEQ, Crow Butte Resources, Inc. (CBR) will provide a secured letter of credit on the renewal date to the State of Nebraska in an amount equal to the updated surety estimate.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215 ext 114.

Sincerely,
CROW BUTTE RESOURCES, INC.

Larry Teahon

Larry Teahon
Manager of Environmental, Health and Safety

Enclosure

cc: Mr. Keith I. McConnell, Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Mailstop T7-E18
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U.S. Nuclear Regulatory Commission
Mr. Steve Cohen - ADDRESSEE ONLY
Fuel Cycle Licensing Branch
Mail Stop T7-E18
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REVIEW OF
CROW BUTTE RESOURCES, INC.

URANIUM PROJECT 2008 SURETY ESTIMATE
AGREED UPON PROCEDURES ENGAGEMENT REVIEW

George W. Klein
Certified Public Accountant
Chadron, Nebraska

GEORGE W. KLEIN
CERTIFIED PUBLIC ACCOUNTANT

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September 20, 2007

Stephen P. Collings, President
Crow Butte Resources, Inc.
141 Union Boulevard, Suite 320
Lakewood, CO 80228

Dear Mr. Collings:

This report shows the findings for each of the services I have performed as outlined in our engagement letter for the Crow Butte Uranium Project 2008 Surety Estimate. These findings were based on the review of the spreadsheets received September 12, 2007 through September 19, 2007 with the Total 2008 Surety Bond estimate totaling $25,207,672.

> No findings in the review of the results of the mathematical calculations used in the surety estimate worksheet. A few cosmetic items were discussed but they did not affect the total calculation of the surety amount.
>
> No findings in the review and confirmation of selected items that support the master costs used in preparing the surety estimate worksheet.
>
> No findings in the further tests and procedures I considered necessary to enable me to express an opinion on the master costs and the calculations used in the surety estimate.

This agreed upon procedures review was conducted in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. I was not engaged to and did not conduct an audit, and accordingly, will not express an opinion or any other form of assurance involved in conducting an audit. My report cannot be relied upon to disclose errors, fraud, or illegal acts that may exist.

The management of Crow Butte Resources, Inc. was responsible for making all records and related information used in the preparation of the surety estimate available to me. They were responsible for the accuracy and completeness of that information and for disclosing all significant information that might affect the surety estimate.

This report is intended solely for the information and use of the Crow Butte Resources, Inc., the Nebraska Department of Environmental Quality, and Fuel Cycle Licensing Branch in evaluating the 2008 Surety Estimate and is not intended and should not be used by anyone other than these specified parties.

I appreciate the opportunity to be of service to the Crow Butte Resources, Inc.

Sincerely,

George W. Klein

George W. Klein, CPA

GWK/bm

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2008 Surety Estimate
(Revised September 2007)

Total Restoration and Reclamation Cost Estimate

I.	Groundwater Restoration (Sheets 3 to 6)		$12,643,133
II.	Wellfield Reclamation (Sheets 7 to 10)		$5,860,317
III.	Commercial Plant Reclamation/Decommissioning (Sheets 11 to 14)		$619,244
IV.	R.O. Building Reclamation/Decommissioning (Sheets 11 to 14)		$91,050
V.	Evaporation Pond Reclamation (Sheets 15 to 18)		$713,233
VI.	Miscellaneous Site Reclamation (Sheets 19 to 21)		$143,608
VII.	Deep Disposal Well Reclamation (Sheet 22)		$68,346
VIII.	I-196 Brule Aquifer Restoration (Sheets 23 to 24)		$27,206
	Subtotal Reclamation and Restoration Cost Estimate		$20,166,137
	Contract Administration	10%	$2,016,614
	Contingency	15%	$3,024,921
		TOTAL	$25,207,672

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2008 Surety estimate
(Revised September 2007)

Comparison of Total Surety and Major Cost Elements to Previous Year			
Projected Costs for 2008 are Compared with Costs for 2007 and Changes are Calculated			
Total Surety	**2008**	**2007**	**Change**
	$25,207,672	$22,980,913	$2,226,759
Contract Administration	**2008**	**2007**	**Change**
	$2,016,614	$1,838,473	$178,141
	2008	**2007**	**Change**
Contingency	$3,024,921	$2,757,710	$267,211
Groundwater Restoration	**2008**	**2007**	**Change**
Groundwater Sweep			
Total Gallons Processed (Kgal)	522,280	488,249	34,031
Total Cost	$339,482	$297,832	$41,650
RO Treatment			
Total Gallons Processed (Kgal)	3,133,680	2,929,494	204,186
Total Cost	$6,612,065	$6,649,951	($37,886)
Recirculation			
Total Gallons Processed (Kgal)	522,280	488,249	34,031
Total Cost	$459,606	$410,129	$49,477
Sampling and Monitoring			
Total On Site Samples	31,118	30,863	255
Total On Site Analysis Costs	$1,597,909	$1,600,864	($2,955)
Total Contract Samples	1,355	1,423	-68
Total Contract Analysis Costs	$271,000	$284,600	($13,600)
Wellfield Reclamation	**2008**	**2007**	**Change**
Pipeline Removal and Loading	$897,940	$780,373	$117,567
Well Abandonment			
Total Number of Wells	4,402	4,142	260
Total Abandonment Cost	$1,955,260	$1,359,795	$595,465
Site Reclamation	**2008**	**2007**	**Change**
Site Earthwork	$577,559	$526,767	$50,792
Plant and Equipment Decontamination	**2008**	**2007**	**Change**
Decontamination Costs	$113,016	$90,186	$22,830
Demolition Costs	$346,500	$227,202	$119,298
Piping Shredding Costs	$316,023	$264,536	$51,487
Transportation and Disposal	**2008**	**2007**	**Change**
Byproduct Material			
Soil-Type Materials, Total Volume (Yd3)	4,265	3,860	405
Soil-Type Materials, Total Cost	$588,071	$519,189	$68,882
Unpackaged Bulk Materials, Total Volume (Yd3)	2,293	1,846	447
Unpackaged Bulk Materials, Total Cost	$768,862	$245,106	$523,756

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
(Revised September 2007)

Ground Water Restoration

			Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
I.	**Ground Water Sweep Costs**												
	PV's Required		1	1	1	1	1	1	1	1	1	0	
	Total Kgals for Treatment		18018	15894	28917	43800	50364	59291	89752	75858	140386	0	522280
	Ground Water Sweep Unit Cost ($/Kgal)	(Sheet 25)	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	
	Subtotal Ground Water Sweep Costs per Wellfield		**$11,711.70**	**$10,331.10**	**$18,796.05**	**$28,470.00**	**$32,736.60**	**$38,539.15**	**$58,338.80**	**$49,307.70**	**$91,250.90**	**$0.00**	**$339,482.00**
Total Ground Water Sweep Costs			**$339,482.00**										
II.	**Reverse Osmosis Costs**												
	PV's Required		6	6	6	6	6	6	6	6	6	0	
	Total Kgals for Treatment		108108	95364	173502	262800	302184	355746	538512	455148	842316	0	3133680
	Reverse Osmosis Unit Cost ($/Kgal)	(Sheet 26)	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11	$2.11
	Subtotal Reverse Osmosis Costs per Wellfield		**$228,107.88**	**$201,218.04**	**$366,089.22**	**$554,508.00**	**$637,608.24**	**$750,624.06**	**$1,136,260.32**	**$960,362.28**	**$1,777,286.76**	**$0.00**	**$6,612,064.80**
Total Reverse Osmosis Costs			**$6,612,064.80**										
III.	**Recirculation Costs**												
	PV's Required		1	1	1	1	1	1	1	1	1	0	
	Total Kgals for Treatment		18018	15894	28917	43800	50364	59291	89752	75858	140386	0	522280
	Recirculation Unit Cost ($/Kgal)	(Sheet 27)	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88	$0.88
	Subtotal Recirculation Costs per Wellfield		**$15,855.84**	**$13,986.72**	**$25,446.96**	**$38,544.00**	**$44,320.32**	**$52,176.08**	**$78,981.76**	**$66,755.04**	**$123,539.68**	**$0.00**	**$459,606.40**
Total Recirculation Costs			**$459,606.40**										
IV.	**Consumables**												
	Spare parts, filters and consumables =	$19,769.75	year										
	Active restoration period (months)		6.89	6.08	11.04	16.74	19.25	22.67	34.30	29.00	53.66	0.00	199.63
	Consumable usage (months restoration x annual rate estimate)		$11,351.13	$10,016.67	$18,188.17	$27,578.80	$31,713.97	$37,348.35	$56,508.54	$47,776.90	$88,403.73	$0.00	$328,886.26
	Subtotal Consumables per Mine Unit		**$11,351.13**	**$10,016.67**	**$18,188.17**	**$27,578.80**	**$31,713.97**	**$37,348.35**	**$56,508.54**	**$47,776.90**	**$88,403.73**	**$0.00**	**$328,886.26**
Total Consumables Costs			**$328,886.26**										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
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Ground Water Restoration														
				Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
V.	Monitoring and Sampling Costs													
	Guideline 8 analysis =	$200.00	analysis											
	6 parameter in-house analysis =	$51.35	analysis											
	Total restoration wells			12	18	43	33	29	25	30	21	32	0	243
	Total monitor wells			13	10	22	48	54	33	50	33	63	0	326
	Groundwater sweep duration (months)			0.36	0.32	0.57	0.87	1.00	1.18	1.78	1.51	2.79	0.00	10.38
	Reverse Osmosis duration (months)			6.17	5.44	9.90	15.00	17.25	20.31	30.74	25.98	48.08	0.00	178.87
	Recirculation duration (months)			0.36	0.32	0.57	0.87	1.00	1.18	1.78	1.51	2.79	0.00	10.38
	Stabilization duration (months)			6	6	6	6	6	6	6	6	6	0	
A.	Restoration Well Sampling													
1.	Well Sampling prior to restoration start													
	# of Wells			12	18	43	33	29	25	30	21	32	0	243
	$/sample			$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
2.	Groundwater Sweep Sampling													
	# of Wells			12	18	43	33	29	25	30	21	32	0	
	Total # samples			12	18	43	33	29	50	60	42	96	0	383
	$/sample			$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	
3.	RO Sampling													
	# of Wells			12	18	43	33	29	25	30	21	32	0	
	Total # samples			72	90	430	495	493	500	930	546	1536	0	5092
	$/sample			$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
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Ground Water Restoration											
	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
4. Recirculation Sampling											
# of Wells	12	18	43	33	29	25	30	21	32	0	
Total # samples	12	18	43	33	29	50	60	42	96	0	383
$/sample	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
5. Stabilization Sampling (Guideline 8)											
# of Wells	12	18	43	33	29	25	30	21	32	0	
Total # samples	36	54	129	99	87	75	90	63	96	0	729
$/sample	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
6. Stabilization Sampling (6 parameter in-house)											
# of Wells	12	18	43	33	29	25	30	21	32	0	
Total # samples	72	108	258	198	174	150	180	126	192	0	1458
$/sample	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	
7. Monitor Well Sampling											
# of Wells	13	10	22	48	54	33	50	33	63	0	
$/sample	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	$51.35	
Total # samples (2.2/mo for entire period)	369	266	825	2401	3000	2081	4433	2541	8269	0	24185
8. Other Laboratory Costs											
Radon, urinalysis, etc. = $936.62 month											
Total for Other Laboratory Costs:	$6,453.31	$5,694.65	$10,340.28	$15,679.02	$18,029.94	$21,233.18	$32,126.07	$27,161.98	$50,259.03	$0.00	$186,977.46
Subtotal Monitoring and Sampling Costs per Mine Unit	**$45,412.06**	**$48,445.35**	**$133,240.88**	**$209,250.47**	**$236,819.54**	**$194,037.53**	**$355,840.12**	**$219,506.23**	**$613,334.58**	**$0.00**	**$2,055,886.76**
Total Monitoring and Sampling Costs	**$2,055,886.76**										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
(Revised September 2007)

Ground Water Restoration

				Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
VI.	**Supervisory Labor Cost**													
	Engineer Support =	$8,934.90	month											
	HP Technician support =	$4,518.80	month											
	Active restoration period (months)			6.89	6.08	11.04	16.74	19.25	22.67	34.30	29.00	53.66	0.00	
	Stabilization period (months)			6	6	6	6	6	6	6	6	6	0	
	1 Engineer support during active restoration			$61,561.46	$54,324.19	$98,641.30	$149,570.23	$171,996.83	$202,554.18	$306,467.07	$259,112.10	$479,446.73	$0.00	$1,783,674.09
	2 HP Technician support during active restoration			$31,134.53	$27,474.30	$49,887.55	$75,644.71	$86,986.90	$102,441.20	$154,994.84	$131,045.20	$242,478.81	$0.00	$902,088.04
	3 Engineer support during final stabilization										$53,609.40	$53,609.40	$0.00	$107,218.80
	4 HP Technician support during final stabilization										$27,112.80	$27,112.80	$0.00	$54,225.60
	Subtotal Supervisory Labor per Mine Unit			**$92,695.99**	**$81,798.49**	**$148,528.85**	**$225,214.94**	**$258,983.73**	**$304,995.38**	**$461,461.91**	**$470,879.50**	**$802,647.74**	**$0.00**	**$2,847,206.53**
Total Supervisory Labor Costs				**$2,847,206.53**										
TOTAL RESTORATION COST PER WELLFIELD				**$405,134.60**	**$365,796.37**	**$710,290.13**	**$1,083,566.21**	**$1,242,182.40**	**$1,377,720.55**	**$2,147,391.45**	**$1,814,587.65**	**$3,496,463.39**	**$0.00**	**$12,643,132.75**
TOTAL GROUND WATER RESTORATION COSTS				**$12,643,132.75**										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
(Revised September 2007)

Wellfield Reclamation

	Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
Wellfield Piping												
Assumptions:												
Number of Wellhouses	0	3	3	5	7	7	6	8	7	5	3	54
Total Mine Unit surface area (acres)	9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	74.29	53.33	410.01
Total length of small diameter production and injection lines (laterals) (ft)	0	34000	39520	68900	106080	128700	160500	187000	161950	96800	69000	1052450
Total length of 3/8-inch hose (ft)					66300							66300
Total length 1-1/4-inch stinger pipe (ft)	0	0	0	0	0	91200	125860	90000	131600	75000	22000	535660
Total length of 2-inch downhole production pipe (ft)	900	6000	22800	38400	38800	74800	138960	58760	74000	45000	13200	511620
Total Length of Trunkline (6-inch) (ft)	1000	1600						900				3500
Total Length of Trunkline (8-inch) (ft)	4400	1300	1450	7800	3700	2000	1000	2100	2225	3200	1400	30575
Total Length of Trunkline (10-inch) (ft)								400				400
Total Length of Trunkline (12-inch) (ft)			1500	6500	18900	10000	5000	16900	11525	5450	5000	80775
Total Length of All Trunkline (ft)	5400	2900	2950	14300	22600	12000	6000	20300	13750	8650	6400	115250
Total number of production wells	3	52	57	96	187	187	205	248	195	260	120	1610
Total number of injection wells	0	79	96	169	221	309	370	412	324	430	200	2610
Total number of shallow monitor wells	0	3	3	11	25	28	25	30	20	32	24	201
Total number of perimeter monitor wells	11	10	7	11	23	26	8	20	13	31	22	182
I. Production and Injection Piping												
A. Removal and Loading												
Production and Injection Piping Removal Unit Cost ($/ft of pipe)	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	$0.65	
Subtotal Production and Injection Piping Removal and Loading Costs	*$0.00*	*$22,100.00*	*$25,688.00*	*$44,785.00*	*$68,952.00*	*$83,655.00*	*$104,325.00*	*$121,550.00*	*$105,267.50*	*$62,920.00*	*$44,850.00*	*$684,092.50*
B. Pipe Shredding												
Production and Injection Piping Shredding Unit Cost ($/ft of pipe)	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	$0.08	
Subtotal Production and Injection Piping Removal and Loading Costs	*$0.00*	*$2,720.00*	*$3,161.60*	*$5,512.00*	*$8,486.40*	*$10,296.00*	*$12,840.00*	*$14,960.00*	*$12,956.00*	*$7,744.00*	*$5,520.00*	*$84,196.00*
C. Equipment Costs												
Cat 924G Loader Unit Costs for removal (450'/day)	$0.00	$33,135.64	$38,515.31	$67,148.41	$103,383.21	$125,428.16	$156,419.73	$182,246.04	$157,832.87	$94,339.13	$67,245.87	
Shredder Unit Costs for shredding (450'/day)	$0.00	$7,253.33	$8,430.93	$14,698.67	$22,630.40	$27,456.00	$34,240.00	$39,893.33	$34,549.33	$20,650.67	$14,720.00	
Subtotal Equipment Costs	*$0.00*	*$40,388.97*	*$46,946.24*	*$81,847.08*	*$126,013.61*	*$152,884.16*	*$190,659.73*	*$222,139.37*	*$192,382.20*	*$114,989.80*	*$81,965.87*	*$1,250,217.03*
D. Transport and Disposal Costs (NRC-Licensed Facility)												
Chipped Volume Reduction (ft^3/ft)	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	
Chipped Volume per Wellfield (yd^3)	0.0	8.7	10.1	17.6	27.1	32.9	41.0	47.8	41.4	24.7	17.6	
Volume for Disposal Assuming 25% Void Space (yd^3)	0.0	10.9	12.6	22.0	33.9	41.1	51.3	59.8	51.8	30.9	22.0	336.3
Transportation and Disposal Unit Cost ($/yd^3$) Unpackaged Bulk	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	
Subtotal Production and Injection Piping Transport and Disposal Costs	*$0.00*	*$3,650.08*	*$4,219.36*	*$7,367.14*	*$11,352.09*	*$13,763.16*	*$17,178.83*	*$20,025.23*	*$17,346.27*	*$10,347.48*	*$7,367.14*	*$112,616.78*
Total Production and Injection Piping Costs	**$0.00**	**$68,859.05**	**$80,015.20**	**$139,511.22**	**$214,804.10**	**$260,598.32**	**$325,003.56**	**$378,674.60**	**$327,951.97**	**$196,001.28**	**$139,703.01**	**$2,131,122.31**

Crow Butte Resources Inc.
Crow Butte Uranium Project 2008 Surety Estimate
(Revised September 2007)

Wellfield Reclamation

	Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
II. Trunklines												
A. Removal and Loading												
Trunkline Removal Unit Cost ($/ft of pipe)	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	
Subtotal Trunkline Removal and Loading Costs	*$7,884.00*	*$4,234.00*	*$4,307.00*	*$20,878.00*	*$32,996.00*	*$17,520.00*	*$8,760.00*	*$29,638.00*	*$20,075.00*	*$12,629.00*	*$9,344.00*	*$168,265.00*
B. Pipe Shredding												
Trunkline Shredding Unit Cost ($/ft of pipe)	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	$1.46	
Subtotal Trunkline Shredding Costs	*$7,884.00*	*$4,234.00*	*$4,307.00*	*$20,878.00*	*$32,996.00*	*$17,520.00*	*$8,760.00*	*$29,638.00*	*$20,075.00*	*$12,629.00*	*$9,344.00*	*$168,265.00*
C. Equipment Costs												
Cat 924G Loader Unit Costs for removal (200'/day)	$11,841.12	$6,359.12	$6,468.76	$31,357.04	$49,557.28	$26,313.60	$13,156.80	$44,513.84	$30,151.00	$18,967.72	$14,033.92	
Shredder Unit Costs for shredding (200'/day)	$2,592.00	$1,392.00	$1,416.00	$6,864.00	$10,848.00	$5,760.00	$2,880.00	$9,744.00	$6,600.00	$4,152.00	$3,072.00	
Subtotal Equipment Costs	*$14,433.12*	*$7,751.12*	*$7,884.76*	*$38,221.04*	*$60,405.28*	*$32,073.60*	*$16,036.80*	*$54,257.84*	*$36,751.00*	*$23,119.72*	*$17,105.92*	*$308,040.20*
D. Transport and Disposal Costs (NRC-Licensed Facility)												
Chipped Volume Reduction (6-inch) (ft^3/ft)	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	
Chipped Volume Reduction (8-inch) (ft^3/ft)	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	
Chipped Volume Reduction (10-inch) (ft^3/ft)	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	
Chipped Volume Reduction (12-inch) (ft^3/ft)	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	
Chipped Volume per Wellfield (yd^3)	20.4	9.2	19.3	89.8	183.7	97.4	48.7	164.0	111.9	61.7	50.3	
Volume for Disposal Assuming 25% Void Space (ft^3)	25.5	11.5	24.1	112.3	229.6	121.8	60.9	205.0	139.9	77.1	62.9	1070.6
Transportation and Disposal Unit Cost ($/$ft^3$)	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	
Subtotal Transport and Disposal Costs	*$8,539.19*	*$3,851.01*	*$8,070.37*	*$37,605.90*	*$76,886.15*	*$40,787.17*	*$20,393.58*	*$68,648.35*	*$46,848.31*	*$25,818.48*	*$21,063.32*	*$358,511.83*
Total Trunkline Costs	**$38,740.31**	**$20,070.13**	**$24,569.13**	**$117,582.94**	**$203,283.43**	**$107,900.77**	**$53,950.38**	**$182,182.19**	**$123,749.31**	**$74,196.20**	**$56,857.24**	**$1,003,082.03**
III. Downhole Pipe												
A. Removal and Loading												
Downhole Piping Removal Unit Cost ($/ft of pipe)	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	$0.070	
Downhole Hosing Removal Unit Cost ($/ft of pipe)	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	$0.150	
Removal of 1-1/4-inch stinger pipe	$0.00	$0.00	$0.00	$0.00	$0.00	$6,384.00	$8,810.20	$6,300.00	$9,212.00	$5,250.00	$1,540.00	
Removal of downhole production pipe	$63.00	$420.00	$1,596.00	$2,688.00	$2,716.00	$5,236.00	$9,727.20	$4,113.20	$5,180.00	$3,150.00	$924.00	
Removal of downhole hose	$0.00	$0.00	$0.00	$0.00	$9,945.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Subtotal Downhole Piping Removal and Loading Costs	*$63.00*	*$420.00*	*$1,596.00*	*$2,688.00*	*$12,661.00*	*$11,620.00*	*$18,537.40*	*$10,413.20*	*$14,392.00*	*$8,400.00*	*$2,464.00*	*$83,254.60*
B. Pipe Shredding												
Downhole Piping Shredding Unit Cost ($/ft of pipe)	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	$0.060	
Subtotal Downhole Piping Shredding Costs	*$54.00*	*$360.00*	*$1,368.00*	*$2,304.00*	*$2,328.00*	*$9,960.00*	*$15,889.20*	*$8,925.60*	*$12,336.00*	*$7,200.00*	*$2,112.00*	*$62,836.80*
C. Equipment Costs												
Smeal Unit Costs for removal	$44.40	$296.00	$1,124.80	$1,894.40	$1,914.13	$8,189.33	$13,064.45	$7,338.83	$10,142.93	$5,920.00	$1,736.53	
Shredder Unit Costs for shredding	$19.20	$128.00	$486.40	$819.20	$827.73	$3,541.33	$5,649.49	$3,173.55	$4,386.13	$2,560.00	$750.93	
Subtotal Equipment Costs	*$63.60*	*$424.00*	*$1,611.20*	*$2,713.60*	*$2,741.86*	*$11,730.66*	*$18,713.94*	*$10,512.38*	*$14,529.06*	*$8,480.00*	*$2,487.46*	*$74,007.76*

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Wellfield Reclamation

	Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
D. Transport and Disposal Costs (NRC-Licensed Facility)												
Chipped Volume Reduction - 1-1/4-inch stinger (ft^3/ft)	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	
Chipped Volume Reduction - 2-inch downhole production (ft^3/ft)	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	
Volume Reduction - 3/8-inch hose (ft3/ft)	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	
Chipped Volume - 1-1/4-inch stinger (ft^3)	0	0	0	0	0	401	554	396	579	330	97	
Chipped Volume - 2-inch downhole production (ft^3)	7	44	169	284	287	554	1028	435	548	333	98	
Volume 3/8-inch hose (ft3)	0	0	0	0	2075	0	0	0	0	0	0	
Volume for Disposal Assuming 25% Void Space (yd^3)	0.3	2.0	7.8	13.1	109.4	44.2	73.2	38.5	52.2	30.7	9.0	380.4
Transportation and Disposal Unit Cost ($/$yd^3$) (Unpackaged Bulk)	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	$334.87	
Subtotal Downhole Piping Transport and Disposal Costs	*$100.46*	*$669.74*	*$2,611.99*	*$4,386.80*	*$36,634.78*	*$14,801.25*	*$24,512.48*	*$12,892.50*	*$17,480.21*	*$10,280.51*	*$3,013.83*	*$127,384.55*
Total Downhole Piping Costs	**$281.06**	**$1,873.74**	**$7,187.19**	**$12,092.40**	**$54,365.64**	**$48,111.91**	**$77,653.02**	**$42,743.68**	**$58,737.27**	**$34,360.51**	**$10,077.29**	**$347,484**
IV. Surface Reclamation												
A. Removal and disposal of contaminated soil around wells												
Volume of contaminated soil (0.37 yd3 per injection and production well)	1.11	48.47	56.61	98.05	150.96	183.52	212.75	244.20	192.03	255.30	118.4	1561.40
Disposal of contaminated soil $137.87 per yd3	$153.04	$6,682.56	$7,804.82	$13,518.15	$20,812.86	$25,301.90	$29,331.84	$33,667.85	$26,475.18	$35,198.21	$16,323.81	$215,270.22
Equipment (Cat 924G loader at 2 yd3/hr)	$30.43	$1,328.56	$1,551.68	$2,687.55	$4,137.81	$5,030.28	$5,831.48	$6,693.52	$5,263.54	$6,997.77	$3,245.34	
Labor (1 man-hour per 2 Yd3)	$10.12	$441.77	$515.96	$893.66	$1,375.91	$1,672.67	$1,939.08	$2,225.73	$1,750.23	$2,326.90	$1,079.14	
Subtotal removal and disposal of contaminated soil	*$193.59*	*$8,452.89*	*$9,872.46*	*$17,099.36*	*$26,326.58*	*$32,004.85*	*$37,102.40*	*$42,587.10*	*$33,488.95*	*$44,522.88*	*$20,648.29*	*$272,299.35*
B. Recontour and seeding												
Recontour and seeding (est. $300/acre)	$2,781.00	$3,510.00	$4,038.00	$7,116.00	$9,525.00	$10,383.00	$15,303.00	$17,376.00	$14,685.00	$22,287.00	$15,999.00	
Subtotal Recontour and Seeding	*$2,781.00*	*$3,510.00*	*$4,038.00*	*$7,116.00*	*$9,525.00*	*$10,383.00*	*$15,303.00*	*$17,376.00*	*$14,685.00*	*$22,287.00*	*$15,999.00*	*$123,003.00*
Total Surface Reclamation	**$2,974.59**	**$11,962.89**	**$13,910.46**	**$24,215.36**	**$35,851.58**	**$42,387.85**	**$52,405.40**	**$59,963.10**	**$48,173.95**	**$66,809.88**	**$36,647.29**	**$395,302.35**
IV. Well Houses												
Total Quantity	0	3	3	5	7	7	6	8	7	5	3	
Average Well House Weight (Lbs.)	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
A. Removal												
Dismantlement at 2-man-days per wellhouse (man-days)	0	6	6	10	14	14	12	16	14	10	6	
Dismantlement Labor Costs	$0.00	$874.98	$874.98	$1,458.30	$2,041.62	$2,041.62	$1,749.96	$2,333.28	$2,041.62	$1,458.30	$874.98	$15,749.64
Equipment (Cat 924G at 2 hours per wellhouse) (hrs)	0	6	6	10	14	14	12	16	14	10	6	
Equipment Costs	$0.00	$328.92	$328.92	$548.20	$767.48	$767.48	$657.84	$877.12	$767.48	$548.20	$328.92	$5,920.56
Subtotal Well House Dismantlement Costs	*$0.00*	*$1,203.90*	*$1,203.90*	*$2,006.50*	*$2,809.10*	*$2,809.10*	*$2,407.80*	*$3,210.40*	*$2,809.10*	*$2,006.50*	*$1,203.90*	*$21,670.20*
B. Disposal												
Total Disposal Weight (6000 lbs per wellhouse) (Lbs)	0	18000	18000	30000	42000	42000	36000	48000	42000	30000	18000	
Subtotal Disposal Costs	*$0.00*	*$148.86*	*$148.86*	*$248.10*	*$347.34*	*$347.34*	*$297.72*	*$396.96*	*$347.34*	*$248.10*	*$148.86*	*$2,679.48*
Total Well House Removal and Disposal Costs	**$0.00**	**$1,352.76**	**$1,352.76**	**$2,254.60**	**$3,156.44**	**$3,156.44**	**$2,705.52**	**$3,607.36**	**$3,156.44**	**$2,254.60**	**$1,352.76**	**$24,349.68**
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD	**$41,995.96**	**$104,118.57**	**$127,034.74**	**$295,656.52**	**$511,461.19**	**$462,155.29**	**$511,717.88**	**$667,170.93**	**$561,768.94**	**$373,622.47**	**$244,637.59**	**$3,901,340.08**
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS	**$3,901,340.08**											

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Well Abandonment

			Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
I.	**Well Abandonment (Wellfields)**													
	# of Production Wells		3	52	57	96	187	187	205	248	195	260	120	
	# of Injection Wells		0	79	96	169	221	309	370	412	324	430	200	
	# of Perimeter Monitoring Wells		11	10	7	11	23	26	8	20	13	31	22	
	# of Shallow Monitoring Wells		0	3	3	11	25	28	25	30	20	32	24	
	Total Number of Deep Wells		14	141	160	276	431	522	583	680	532	721	342	4402
	Total Number of Shallow Wells		0	3	3	11	25	28	25	30	20	32	24	201
	Average Diameter of Casing (inches)		5	5	5	5	5	5	5	5	5	5	5	
	Production, Injection and Perimeter Well Average Depth (ft)		665	631	774	698	675	515	762	500	770	480	810	662
	Shallow Well Average Depth (ft)		200	200	200	200	200	200	200	200	200	150	350	209
	Total Mine Unit Well Depth (ft)		9310	89571	124440	194848	295925	274430	449246	346000	413640	350880	285420	2833710
	Well Abandonment Unit Cost ($/ft. of well)		$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	$0.69	
	Subtotal Abandonment Cost per Wellfield		**$6,423.90**	**$61,803.99**	**$85,863.60**	**$134,445.12**	**$204,188.25**	**$189,356.70**	**$309,979.74**	**$238,740.00**	**$285,411.60**	**$242,107.20**	**$196,939.80**	**$1,955,259.90**
II.	**Downhole Pump Disposal**													
	Number of Downhole Pumps	602												
	Pump Disposal Volume(ft3)	0.5												
	Total Pump Disposal Volume(yd3)	11.1												11.1
	Downhole Pump Disposal Rate ($/yd3)	$334.87												334.87
	Subtotal Downhole Pump Disposal		**$3,717.06**											**$3,717.06**
Total Wellfield Abandonment Costs			**$1,958,976.96**											

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Plant Equipment Decommissioning	Commercial Plant	R.O. Building
I. Removal and Loading Costs		
Tankage		
Number of Contaminated Tanks	55	
Volume of Contaminated Tank Construction Material (ft^3)	1062	
Number of Chemical Tanks	9	
Disposal Void Factor	1.25	
A. Labor to Remove and Load Tankage		
Number of Persons	2	
Tanks/Day	1	
Number of Days	64	
$/Day/Person	$145.83	
Subtotal Removal Labor Costs	*$18,666.24*	
B. Labor to Clean Chemical Tankage		
Number of Persons	1	
Tanks/Day	1	
Number of Days	9	
$/Day/Person	$145.83	
Subtotal Cleaning Labor Costs	*$1,312.47*	
C. Equipment		
Saws, scaffolding, etc.	$6,000	
Subtotal Equipment Costs	*$6,000*	
Total Equipment Removal and Loading Costs	**$25,978.71**	
II. Transportation and Disposal Costs (NRC-Licensed Facility)		
A. Tankage		
Volume of Tank Construction Material (ft^3)	1062	
Volume for Disposal Assuming Void Space (yd^3)	49.2	
Transportation and Disposal Unit Cost ($\$/yd^3$) (Unpackaged Bulk)	$334.87	
Subtotal Tankage Transportation and Disposal Costs	*$16,475.60*	
B. Contaminated PVC Pipe		
Volume of Shredded PVC Pipe (ft^3)	177.6	
Volume for Disposal Assuming Void Space (yd^3)	8.2	
Transportation and Disposal Unit Cost ($\$/yd^3$) (Unpackaged Bulk)	$334.87	
Subtotal Contaminated PVC Pipe Transportation and Disposal Costs	*$2,745.93*	

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Plant Equipment Decommissioning

		Commercial Plant	R.O. Building
C.	Pumps		
	Volume of Process Pumps (yd^3) (no void factor used)	12.8	
	Transportation and Disposal Unit Cost (\$/yd^3) (Unpackaged Bulk)	$334.87	
	Subtotal Pump Transportation and Disposal Costs	*$4,286.34*	
D.	Filters (injection, backwash and yellowcake filters)		
	Volume of Filters (yd^3) (no void factor used)	88.9	
	Transportation and Disposal Unit Cost (\$/yd^3) (Unpackaged Bulk)	$334.87	
	Subtotal Filter Transportation and Disposal Costs	*$29,769.94*	
E.	Dryer		
	Dryer Volume (yd^3) (no void factor used)	29.6	
	Transportation and Disposal Unit Cost (\$/yd^3) (Unpackaged Bulk)	$334.87	
	Total Dryer Transportation and Disposal Costs	*$9,912.15*	
	Total Contaminated Equipment Transportation and Disposal Costs	**$63,189.96**	
III.	**Transportation and Disposal (Solid Waste for Landfill Disposal)**		
A.	Cleaned Tankage		
	Volume of Tank Construction Material (ft^3)	174	
	Number of Landfill Trips	1	
	Transportation and Disposal Unit Cost ($/Load)	$133.75	
	Subtotal Tankage Transportation and Disposal Costs	*$133.75*	
B.	Uncontaminated PVC Pipe		
	Volume of Shredded PVC Pipe (ft^3)	177.6	
	Number of Landfill Trips	1	
	Transportation and Disposal Unit Cost ($/Load)	$133.75	
	Subtotal PVC Pipe Transportation and Disposal Costs	*$133.75*	
	Total Uncontaminated Equipment Transportation and Disposal Costs	**$267.50**	
IV.	**Supervisory Labor Costs During Plant Decommissioning**		
	Estimated Duration (months)	6	
	Engineer	$53,609.40	
	Radiation Technician	$27,112.80	
	Total Supervisory Labor Costs	**$80,722.20**	
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY		$170,158.37	
	Building Area (Ft2)	34,000	5,000
	Building Equipment Removal and Disposal Cost per Square Foot	$5.00	$5.00
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS		**$170,158.37**	**$25,000.00**

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Building Demolition

			Commercial Plant	R.O. Building
I.	**Decontamination Costs**			
	A.	Wall Decontamination		
		Area to be Decontaminated (ft^2)	25,332	
		HCl Application Rate (Gallons/ft^2)	1	
		HCl Acid Cost	$1.23	
		Subtotal Wall Decontamination Materials Costs	$31,158.36	
	B.	Concrete Floor Decontamination		
		Area to be Decontaminated (ft^2)	18146	
		HCl Application Rate (Gallons/ft^2)	2	
		HCl Acid Cost	$1.23	
		Subtotal Floor Decontamination Materials Costs	$44,639.16	
	C.	Decontamination Labor		
		Labor (man-days)	60	
		Subtotal Decontamination Labor Cost	$8,749.80	
	D.	Decontamination Equipment Costs		
		Sprayer pump	$500	
		Recycle pump	$500	
		Sprayer with hose	$1,000	
		Subtotal Decontamination Equipment Costs	$2,000	
	E.	Decontamination Waste Disposal (to Ponds)		
		Total gallons HCl waste	61,624	
		Pumping costs (5 HP/30 gpm)	$489.81	
	Subtotal Decontamination Costs		$87,037.13	
	Total Decontamination Costs		**$87,037.13**	
II.	**Demolition Costs**			
		Assumptions (based on 2007 costs):		
		Dismantling interior steel, tanks, pumps, etc.	$159,450.00	
		Dismantling plant building	$79,725.00	
	A.	Building Dismantling		
		Dismantle interior components (2007 $'s escalated by CPI)	$163,755.15	
		Plant building dismantling (2007 $'s escalated by CPI)	$81,877.58	
		Subtotal Building Dismantling	*$245,632.73*	
	B.	Concrete Floor Removal		
		Area of direct-dispose concrete floors (ft2)	5,450	
		Removal Rate ($/ft2)	$14.04	

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Building Demolition		
	Commercial Plant	**R.O. Building**
Subtotal Concrete Floor Removal	*$76,518.00*	
Total Demolition Costs	**$322,150.73**	
III. Disposal Costs		
A. Concrete Floor		
Area of Direct-Dispose Concrete Floor (ft^2)	5,450	
Average Thickness of Concrete Floor (ft)	0.50	
Volume of Concrete Floor (ft^3)	2,725	
Volume of Concrete Floor (Yd3)	101	
Transportation and Disposal Unit Cost ($/$Yd^3$) (Unpackaged Bulk)	$334.87	
Subtotal Concrete Floor Disposal Costs	*$33,821.87*	
Total Disposal Costs	**$33,821.87**	
IV Plant Site Reclamation		
A. Plant Site Earthwork		
Material to be Moved (Yd3)	20,000	
D8N Bulldozer Earthwork Rate (Yd3/hr)	700	
D8N Hourly Rate	$170.67	
Subtotal Plant Site Earthwork	*$4,876.29*	
B. Revegetation		
Area requiring Revegetation (Ac)	4	
Revegetation Unit Cost ($/Ac)	$300	
Subtotal Plant Site Revegetation	*$1,200.00*	
Total Plant Site Reclamation Costs	**$6,076.29**	
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$449,086.02	
Building Area (Ft2)	34,000	5,000
Building Demolition Cost per Square Foot	$13.21	$13.21
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	**$449,086.02**	**$66,050.00**

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Evaporation Pond Reclamation

		Commercial Ponds	R&D Ponds	Total
	Assumptions/Data:			
	Number of Ponds	3	2	
	Area of Ponds (ft2)	250,000	50,000	
	Thickness of Liner Material (ft)	0.00833	0.0030	
	Leak detection piping size (in)	4	3	
	Leak detection piping length (ft/pond)	2,100	600	
	Earthwork Requirements (Yd3/pond)	60,000	30,000	
	Surface Restoration/Revegetation (Acres)	20	10	
	Sludge Production Rate (Yd3 sludge/gal)		0.000000102	
	(1 Yd3 sludge/9,772,000 gal R&D Phase)			
	Estimated 1991 to 2008 Total Production (gallons)	26,508,584,400		
	Liner Removal Rate (ft2/man-day)	10,000	10,000	
	Sludge Removal Rate (Yd3/man-day)	8.33	8.33	
I.	**Pond Liner and Piping Removal**			
A.	Pond Liner and Piping Removal Labor			
	Area of Ponds	750,000	100,000	
	Liner Removal Rate (ft2/Man-Day)	10,000	10,000	
	Total Man-Days	75	10	
	Labor Rate ($/man-day)	$145.83	$145.83	
	Subtotal Liner and Piping Removal Labor Costs	*$10,937.25*	*$1,458.30*	*$12,395.55*
B.	Pond Liner and Piping Removal Equipment			
	Total Man-Days Removal Effort	75	10	
	Size of Crew	4	4	
	Total Days Removal Effort	18.75	2.5	
	Cat 924G Loader Hourly Rate ($/hr)	$54.82	$54.82	
	Subtotal Liner and Piping Removal Equipment Costs	*$8,223.00*	*$1,096.40*	*$9,319.40*
	Total Pond Liner and Piping Removal Costs	**$19,160.25**	**$2,554.70**	**$21,714.95**

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Evaporation Pond Reclamation					
			Commercial Ponds	**R&D Ponds**	**Total**
II.	**Pond Sludge Removal**				
	Pond Sludge Estimate				
		Estimated Production Flow since 1991 (gal)	26,508,584,400		
		Historical Sludge Production Rate	0.000000102		
		Estimated Pond Sludge Volume (Yd3)	2,704	Cleaned following R&D	
	A.	Pond Sludge Removal Labor			
		Pond Sludge Volume (Yd3)	2,704		2,704
		Sludge Removal Rate (Yd3/man-day)	8.33		
		Total Man-Days	325		
		Labor Rate ($/man-day)	$145.83		
	Subtotal Pond Sludge Removal Labor Costs		*$47,394.75*	*$0.00*	*$47,394.75*
	B.	Pond Sludge Removal Equipment			
		Total Man-Days Removal Effort	325		
		Size of Crew	3		
		Total Days Removal Effort	108		
		Cat 924G Loader Hourly Rate ($/hr)	$54.82		
	Subtotal Pond Sludge Removal Equipment Costs		*$47,364.48*	*$0.00*	*$47,364.48*
	Total Pond Sludge Removal Costs		**$94,759.23**	**$0.00**	**$94,759.23**
III.	**Pond Byproduct Material Disposal**				
	A.	Pond Liner Disposal			
		Area of Pond Liner (ft2)	750,000	100,000	
		Thickness of Pond Liner (ft)	0.00833	0.00300	
		Volume of Pond Liner (ft3)	6,248	300	
		Void Space Factor	1.25	1.25	
		Total Disposed Volume (yd3)	289	14	303.0
		Disposal Unit Costs ($/yd3) (Unpackaged Bulk)	$334.87	$334.87	
	Subtotal Pond Liner Disposal Costs		*$96,777.43*	*$4,688.18*	*$101,465.61*

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Evaporation Pond Reclamation			
	Commercial Ponds	R&D Ponds	Total
B. Pond Piping Disposal			
Total Length of Piping	6,300	1,200	
Piping Volume Factor (ft3/ft)	0.0103	0.0069	
Total Volume Pond Piping (ft3)	65	8	
Void Space Factor	1.25	1.25	
Total Disposed Volume (yd3)	3.0	0.4	3.4
Disposal Unit Costs ($/yd3) (Unpackaged Bulk)	$334.87	$334.87	
Subtotal Pond Piping Disposal Costs	*$1,004.61*	*$133.95*	*$1,138.56*
C. Pond Sludge Disposal			
Total Volume Pond Sludge (Yd3)	2,704		2,704
Disposal Unit Costs ($/yd3) (Soil rate)	$137.87		
Subtotal Pond Sludge Disposal Costs	*$372,800.48*	*$0.00*	*$372,800.48*
Total Byproduct Material Disposal Costs	**$470,582.52**	**$4,822.13**	**$475,404.65**
IV Pond Site Reclamation			
A. Pond Earthwork Requirements			
Earthwork Requirements Yd3)	180,000	60,000	
D8N Bulldozer Earthwork Rate (Yd3/hr)	700	700	
Total D8N Hours	257	86	
D8N Hourly Rate	$170.67	$170.67	
Subtotal Pond Earthwork	*$43,862.19*	*$14,677.62*	*$58,539.81*
B. Revegetation			
Area requiring Revegetation (Ac)	20	10	
Revegetation Unit Cost ($/Ac)	$300.00	$300.00	
Subtotal Plant Site Revegetation	*$6,000.00*	*$3,000.00*	
Total Pond Site Reclamation Costs	**$49,862.19**	**$17,677.62**	$67,539.81

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Evaporation Pond Reclamation			
	Commercial Ponds	**R&D Ponds**	**Total**
V. Supervisory Labor Costs During Pond Reclamation			
Estimated Duration (months)	4		
Engineer Rate ($/month)	$8,934.90		
Total Engineer Labor	$35,739.60		
Radiation Technician Rate ($/month)	$4,518.80		
Total Radiation Technician Labor	$18,075.20		
Total Supervisory Labor Costs	**$53,814.80**	**$0.00**	$53,814.80
TOTAL EVAPORATION POND RECLAMATION PER POND	**$688,178.99**	**$25,054.45**	**$713,233.44**
TOTAL EVAPORATION POND RECLAMATION COSTS	**$713,233.44**		

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Miscellaneous Site Reclamation					
I.	**Access Road Reclamation**				
		Assumptions			
			Road Reclamation production rate (Yd3/hr)		200
			Length of Main Access Roads (ft)		14,900
			Average Main Access Road width (ft)		25
			Depth of Main Access Road Gravel Surface (ft)		1
			Surface Area of Main Access Road (Ac)		8.6
			Length of Wellfield Access Roads (ft)		54,700
			Average Wellfield Access Road width (ft)		12
			Depth of Wellfield Access Road Gravel Surface (ft)		0.5
			Surface Area of Wellfield Road (Ac)		15.1
	A.	Main Access Road Dirtwork			
			Main Access Road Gravel Volume (Yd3)		13,796
			Total reclamation time (hrs)		69
			D8N Unit Operating Cost ($/hr)		$170.67
		Subtotal Main Access Road Gravel Roadbase Removal Costs			*$11,776.23*
	B.	Wellfield Road Dirtwork			
			Wellfield Road Gravel Volume (Yd3)		12,156
			Total reclamation time (hrs)		61
			D8N Unit Operating Cost ($/hr)		$170.67
		Subtotal Wellfield Road Gravel Roadbase Removal Costs			*$10,410.87*
	E.	Discing/Seeding			
			Assumptions		
			Surface Area (acres)		23.7
			Discing/Seeding Unit Cost ($/acre)		$300.00
		Subtotal Discing/Seeding Costs			*$7,110.00*
	Total Access Road Reclamation Costs				**$29,297.10**

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Miscellaneous Site Reclamation				
II.	**Wastewater Pipeline Reclamation**			
		Assumptions		
			Pipeline Removal Rate (ft./man-day)	67
			Pipeline Shredding Rate (ft./man-day)	1,500
			Number of Pond Pipelines	2
			Length of Pond Pipelines (ft)	2,000
			Number of RO Building Pipelines	4
			Length of RO Building Pipelines (ft)	300
			Average Pipe Size (Sch 40)	4
	A.	Pipeline Removal Costs		
			Length of Pipelines (ft)	5,200
			Removal Rate (ft/man-day)	67
			Removal Labor Rate ($/man-day)	$145.83
			Cat 924G Loader Use (days)	78
			Cat 924G Loader Cost	$34,207.68
		Subtotal Pipeline Removal Costs		*$45,582.42*
	B.	Pipeline Shredding Costs		
			Length of Pipelines (ft)	5,200
			Shredding Rate (ft/man-day)	1,500
			Shredding Labor Rate ($/man-day)	$145.83
			Shredder Use (days)	3
			Shredder Cost	$288.00
		Subtotal Pipeline Shredding Costs		*$725.49*

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				Miscellaneous Site Reclamation		
	C.			Pipeline Transportation and Disposal (NRC-Licensed Facility)		
				Pipe Diameter (inches)		4
				Chipped Volume Reduction (ft^3/ft)		0.0103
				Subtotal Volume of Shredded PVC Pipe (yd^3)		2.0
				Disposal Void Factor		1.25
				Final Disposal Volume (yd3)		2.5
				Transportation and Disposal Unit Cost ($/$yd^3$) (Unpackaged Bulk)		$334.87
				Subtotal Pipeline Disposal Costs		*$837.18*
	Total Wastewater Pipeline Reclamation Costs					**$47,145.09**
III.	**Electrical Distribution System Removal**					
				Assumptions		
				Length of High Voltage Lines		43,440
				High Voltage Line Removal Rate ($/ft.)		$0.59
				High Voltage Line Removal Cost ($/ft.)		$25,629.60
				Substation Removal		$1,175.00
				Subtotal Electrical Distribution System Removal Costs		**$26,804.60**
IV.	**Supervisory Labor Costs During Miscellaneous Reclamation**					
				Estimated Duration (months)		3
				Engineer Rate ($/month)		$8,934.90
				Total Engineer Labor		$26,804.70
				Radiation Technician Rate ($/month)		$4,518.80
				Total Radiation Technician Labor		$13,556.40
	Total Supervisory Labor Costs					**$40,361.10**
TOTAL MISCELLANEOUS RECLAMATION COSTS						**$143,607.89**

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Deep Disposal Well Reclamation				
I.	**Cost Basis**			
	A.	Plugging and Abandonment		
			Cost Estimate from March 2004 Permit Re-application for plugging and abandonment	$59,026.00
			March 2004 CPI	187.4
			June 2007 CPI	208.4
		Subtotal Escalated 2003 Plugging and Abandonment Costs		*$65,640.44*
	B.	Site Reclamation		
			Cost Estimate from March 2004 Permit Re-application for site reclamation	$2,433.00
			March 2004 CPI	187.4
			June 2007 CPI	208.4
		Subtotal Escalated 2003 Reclamation Costs		*$2,705.64*
TOTAL DEEP DISPOSAL WELL RECLAMATION COSTS				**$68,346.08**

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I-196 Brule Aquifer Restoration			
I.	**Ground Water Sweep Costs**		
	Assumptions		
	PV's Required from I-196a, I-196j and I-196n		3
	Total Gallons per Pore Volume		337,758
	Total Gallons to Treat		1,013,274
	Flow Rate (gpm)		3
	Pump Power Requirements (kwh)		3
	Power Cost ($/kw)		$0.0638
	Pumping Labor (man-day per day) (1hr/day)		0.125
	Sampling Labor (man-day per day) (.5hr/day)		0.0625
	Labor Rate ($/man-day)		$145.83
	Days to complete		235
A.	Electrical Costs		
	Cost to pump 3 Pore Volumes		*$1,077.45*
B.	Labor Costs		
	Labor for pumping 3 Pore Volumes		*$4,283.76*
Total Ground Water Sweep Costs			**$5,361.21**
II.	**Monitoring and Sampling Costs**		
A.	Labor Costs for Monitoring I-196a, I-196j, and I-196n		$2,141.88
B.	Monitoring for I-196i, I-196m, and I-196l		$2,141.88
Total Monitoring and Sampling Costs			**$4,283.76**

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I-196 Brule Aquifer Restoration				
III	**Additional Ground Water Sweep**			
	Pump from additional wells and monitor as above			$9,644.97
	Drill 4 additional wells, 50 ft deep at $26/ft.			$5,200.00
Total Additional Ground Water Sweep				**$14,844.97**
IV	**Well Abandonment**			
	Abandon 14 wells at $194/well			$2,716.00
Total Well Abandonment				**$2,716.00**
TOTAL I-196 BRULE AQUIFER RESTORATION COSTS				**$27,205.94**

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GROUNDWATER RESTORATION
GROUNDWATER SWEEP (GWS) Unit Costs

Assumptions:

1.	All pumps are 5 hp pumping at 32 gpm		
2.	Cost of electricity =	$0.0638	Kw hr
3.	Horsepower to kilowatt conversion =	0.746	Kw/HP
4.	Operator labor costs =	$145.83	man-day
5	Labor costs are based on 36 pumps at 1,150 gpm		

Wellfield Pumping Electrical Costs per 1000 Gallons

1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0638		= $	0.124
			32	gpm		60	min		hp			kwh			

Wellfield Pumping Labor Costs per 1000 Gallons

1000	gal	X	1	min	X	1	man-day	X	$145.83		X	2	operators	= $	$0.528
			1150	gal		480	min		man-day						

Groundwater Sweep Production Rate

1150	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*50,370,000*	*gallons*
	min			hr			day			year		12	month			*month*

TOTAL GWS COSTS PER 1000 GALLONS		**= $**	**0.65**

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Groundwater Reverse Osmosis (RO) Treatment Unit Costs

Assumptions:																	
1.	All pumps are 5 hp pumping at 32 gpm																
2.	Cost of electricity =															$0.0638	Kw hr
3.	Horsepower to kilowatt conversion =															0.746	Kw/HP
4.	Operator labor costs =															$145.83	man-day
5.	RO System horsepower requirements for 600 gpm rated flow based upon:																
				RO Unit Pump				405	hp								
				Permeate/Injection pump				60	hp								
				Waste pump				12	hp								
				TOTAL:				477	hp								
6.	Chemical costs:																
				Reductant =												$0.37	lb
				Antiscalant =												$16.63	gal
Wellfield Pumping Electrical Costs per 1000 Gallons																	
	1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0638		= $	0.124	per Kgal
				32	gpm		60	min		hp			kwh				
Reverse Osmosis Electrical Costs per 1000 Gallons																	
	1000	gal	X	477	hp	X	1	hr	X	0.746	kwh	X	$ 0.0638		= $	0.631	per Kgal
				600	gpm		60	min		hp			kwh				
Reverse Osmosis Labor Costs per 1000 Gallons																	
	1000	gal	X	1	min	X	1	man-day	X	$145.83		X	2	operators	= $	$1.013	per Kgal
				600	gal		480	min		man-day							
Treatment chemical costs per 1000 Gallons																	
	Antiscalant:																
	1000	gal	X	0.000008330	gal antiscalant	X	$16.63								= $	$0.139	per Kgal
				1	gal		gal antiscalant										
	Reductant:																
	1000	gal	X	0.000560	lbs reductant	X	$0.370								= $	$0.207	per Kgal
				1	gal		lb reductant										
Reverse Osmosis Production Rate																	
	400	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*17,520,000*	*gallons*
		min			hr			day			year		12	month			*month*
TOTAL RO COSTS PER 1000 GALLONS													**= $**	**2.11**			

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Groundwater Recirculation Unit Costs

Assumptions:																	
1.	All pumps are 5 hp pumping at 32 gpm																
2.	Cost of electricity =															$0.0638	Kw hr
3.	Horsepower to kilowatt conversion =															0.746	Kw/HP
4.	Operator labor costs =															$145.83	man-day
5.	System horsepower requirements for 1,150 gpm rated flow based upon:																
				injection pump				30	hp								
6.	Chemical costs:																
				Reductant =												$0.37	lb
Wellfield Pumping Electrical Costs per 1000 Gallons																	
	1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0638		= $	0.124	per Kgal
				32	gpm		60	min		hp			kwh				
Wellfield Injection Electrical Costs per 1000 Gallons																	
	1000	gal	X	30	hp	X	1	hr	X	0.746	kwh	X	$ 0.0638		= $	0.021	per Kgal
				1150	gpm		60	min		hp			kwh				
Recirculation Labor Costs per 1000 Gallons																	
	1000	gal	X	1	min	X	1	man-day	X	$145.83		X	2	operators	= $	0.528	per Kgal
				1150	gal		480	min		man-day							
Treatment chemical costs per 1000 Gallons																	
	Reductant:																
	1000	gal	X	0.000560	lbs reductant	X	$0.370								= $	$0.207	per Kgal
				1	gal		lb reductant										
Recirculation Production Rate																	
	1150	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*50,370,000*	*gallons*
		min			hr			day			year		12	month			*month*
TOTAL RECIRCULATION COSTS PER 1000 GALLONS													= $	**0.88**			

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WELL ABANDONMENT Unit Costs														
Assumptions:														
1	Use backhoe for 0.25 hr/well to dig, cut off, and cap well.													
2	Drill rig used 2.5 hrs to plug well.													
3	Labor for installing chips, etc. will require 2 workers at 0.5 hrs per well													
Well Abandonment Costs												**Cost per ft (based on 700 ft wells)**		
	Cat 416 Backhoe													
		0.25	hours	X	$	44.59	per hour			=$	11.15	$0.0159		
	Drill rig													
		2.5	hours	X	$	155.00	per hour			=$	387.50	$0.5536		
	Well Cap	1	each	X	$	7.67	each			=$	7.67	$0.0110		
Materials per foot of well (Variable Cost)														
	Cement	0.0714	lbs/ft	X	$	0.065	per pound			=$		$0.0047		
	Bentonite Chips	0.007	tubes/ft	X	$	5.80	per tube			=$		$0.0406		
	Plug Gel	0.0086	sacks/ft	X	$	7.55	per sack			=$		$0.0649		
Total Estimated Cost per Foot:												**$0.69**		

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Master Cost Basis

Mine Unit Data

		Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11
Total number of production wells		3	52	57	96	187	187	205	248	195	260	120
Total number of injection wells		0	79	96	169	221	309	370	412	324	430	200
Total number of shallow monitor wells		0	3	3	11	25	28	25	30	20	32	24
Total number of perimeter monitor wells		11	10	7	11	23	26	8	20	13	31	22
Total number of restoration wells		10	12	18	43	33	29	25	30	21	32	24
Wellfield Area (ft2)		403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	3,235,900	2,323,200
Wellfield Area (acres)		9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	74.29	53.33
Affected Ore Zone Area (ft2)		403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	3,235,900	2,323,200
Avg. Completed Thickness		19.6	16.3	12.5	12.9	14.6	15.4	12.3	16.4	16.4	20	22
Porosity		0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Affected Volume (ft3)		7,912,755	8,306,480	7,327,350	13,330,925	20,191,873	23,217,764	27,332,937	41,375,740	34,970,622	64,718,000	51,110,400
Kgallons per Pore Volume		17,164	18,018	15,894	28,917	43,800	50,364	59,291	89,752	75,858	140,386	110,869
Number of Patterns in Unit(s)												
	Current	0	52	57	96	187	187	205	248	195	200	60
	Estimated next report	0	0	0	0	0	0	0	0	0	60	60
	Total Estimated	0	52	57	96	187	187	205	248	195	260	120
Number of Wells in Unit(s)												
Production Wells												
	Current	3	52	57	96	187	187	205	248	195	200	60
	Estimated next report	0	0	0	0	0	0	0	0	0	60	60
	Total Estimated	3	52	57	96	187	187	205	248	195	260	120
Injection Wells												
	Current	0	79	96	169	221	309	370	412	324	330	100
	Estimated next report	0	0	0	0	0	0	0	0	0	100	100
	Total Estimated	0	79	96	169	221	309	370	412	324	430	200
Shallow Monitor Wells												
	Current	0	3	3	11	25	28	25	30	20	32	9
	Estimated next report	0	0	0	0	0	0	0	0	0	0	15
	Total Estimated	0	3	3	11	25	28	25	30	20	32	24
Perimeter Monitor Wells												
	Current	11	10	7	11	23	26	8	20	20	31	9
	Estimated next report	0	0	0	0	0	0	0	0	-7	0	13
	Total Estimated	11	10	7	11	23	26	8	20	13	31	22
Number of Wells per Wellfield		14	144	163	287	456	550	608	710	552	753	366
Total Number of Wells		4603										
Average Well Depth (ft) - Deep Wells		665	631	774	698	675	515	762	500	770	480	810
Average Well Depth (ft) - Shallow Wells		200	200	200	200	200	200	200	200	200	150	350

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Master Cost Basis

Electrical Costs			
	2007 Rate	2008 Est Rate	
Power cost (adj for current actual cost)	$0.0580	$0.0638	kwHr
Kilowatt to Horsepower	0.746	0.746	Kw/HP
Horsepower per gallon per minute	0.167	0.167	HP/gpm
Labor Rates			
	2007 Rate	2008 Est Rate (CPI)	
Operator Labor Cost	$142.00	$145.83	day
Engineer Cost	$8,700.00	$8,934.90	month
Radiation Technician Costs	$4,400.00	$4,518.80	month
Chemical Costs			
	2007 Rate	2008 Est Rate	
Antiscalant for RO (adj for current actual cost)	$16.19	$16.63	gal
Reductant (adj for current actual cost)	$0.36	$0.37	lb
Cement (adj for current actual cost)	$0.06	$0.07	pound
Bentonite Tubes (adj for current actual cost)	$3.72	$5.80	tube
Salt (adj for current actual cost)	$106.00	$110.00	ton
Plug Gel (adj for current actual cost)	$6.57	$7.55	sack
Well Cap (adj for current actual cost)	$7.47	$7.67	each
Hydrochloric Acid (adj for current actual cost)	$1.20	$1.23	gallon
Analytical Costs			
Guideline 8 (contract lab adjusted for current contract cost)	$200.00	$200.00	analysis
6 parameter (in-house) Est Rate (CPI)	$50.00	$51.35	analysis
Other (radon, bio, etc.) Est Rate (CPI)	$912.00	$936.62	month
Spare Parts			
	2007 Rate	2008 Est Rate (CPI)	
Restoration spare parts estimate	$19,250.00	$19,769.75	year

CPI Escalators (CPI-U, U.S. City Average)	
1988 CPI (average)	118.3
March 2004 CPI (deep well estimate)	187.4
2005 CPI (June 2006 used in last update)	202.9
Current CPI (June 2007)	208.4
2008 Escalation Factor	1.027

Master Cost Basis

Equipment Costs

Equipment	Base Rental Rate ($/hr)	Labor Costs ($/hr)	Repair Reserve Costs ($/hr)	Fuel Costs ($/hr)	Mob & Demob ($/hr)	Total ($/hr)
Cat 924G Loader	$26.00	$17.75	$3.00	$8.07	inc.	$54.82
Cat 416 Backhoe	$16.00	$17.75	$2.50	$8.34	inc.	$44.59
Shredder	$12.00			inc	inc	$12.00
Cat D8N Bulldozer	$110.00	$17.75	$12.00	$30.92	inc.	$170.67
Pulling Unit	$37.00	inc	inc	inc	inc	$37.00
Mixing Unit	$5.00			inc	inc	$5.00
Drill Rig	$155.00	inc	inc	inc	inc	$155.00

Basis:
Cat 924G, 416 and D8N rental rates from Nebraska Machinery (Aug '07); others estimated.
Repair Reserve costs based on from Nebraska Machinery (Aug '07).
Current diesel usage from from Nebraska Machinery (Aug '07), with current (Sep 1, '07) costs for off-road fuel: $2.689 gallon

Labor rate based on current operator labor rate

Pipe Volumes

Nominal Pipe Size	Wall Thickness (in.)	Pipe OD (in.)	Volume per foot (ft3/ft)
3/8-inch O2 hose		0.37500	0.03130
2-inch Sch. 40 downhole	0.15400	2.37500	0.00740
1-1/4-inch Sch. 40 stinger	0.14000	1.66000	0.00440
2-inch SDR 13.5 inj & prod.	0.14815	2.29630	0.00690
4-inch SDR 35	0.11430	4.22860	0.01030
6-inch Sch. 40 process pipe	0.28000	6.56000	0.03840
6-inch Trunkline	0.49100	6.56600	0.06510
8-inch Trunkline	0.63900	8.54800	0.11030
10-inch Trunkline	0.79600	10.65400	0.17120
12-inch Trunkline	0.94400	12.63700	0.24080

Pipe Removal and Shredding Costs

Activity	Removal Rate (ft/man-day)	Shredding Rate (ft/man-day)	Labor Rate (day)	Activity Cost per foot
2-inch SDR 13.5 inj & prod. Removal	225		$145.83	$0.65
2-inch SDR 13.5 inj & prod. Shredding		1920	$145.83	$0.08
Trunkline Removal	100		$145.83	$1.46
Trunkline Shredding		100	$145.83	$1.46
Downhole Pipe Removal	2000		$145.83	$0.07
Downhole Pipe Shredding		2250	$145.83	$0.06
Downhole Hose Removal	1000		$145.83	$0.15
Waste and RO Building Pipeline Removal	67		$145.83	$2.18
Waste and RO Building Pipeline Shredding		1500	$145.83	$0.10

Waste Disposal Costs

Waste Form	Fee		Density Correction Factor (Tons/Yd3)	Fee per Cubic Yard	Transport Cost		Total Transportation and Disposal	
Soil, Bulk Byproduct Material	$185.19	per Ton	0.54	$100.00	$37.87	per Yd3	$137.87	per Yd3
Unpackaged Bulk Byproduct Material (e.g., pipe, equipment)	$707.15	per Ton	0.42	$297.00	$37.87	per Yd3	$334.87	per Yd3
Solid Waste (landfill)	$0.00827	per Lb			Incl.	per Lb	$0.00827	per Lb
Solid Waste (landfill)	$133.75	per Load			Incl.	per Load	$133.75	per Load
Void Factor (for disposal)	1.25							

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Plant Dismantling

Plant Components:	*Number*	*Units*	*Estimated Disposal Volume*	*Units*	*Activity*	*Units*	*2007 Cost*	
Contaminated Tanks	55	each	19.3	Ft3 each	Dismantle interior steel, tanks, piping and electrical:		$	159450
Uncontaminated Tanks	9	each	19.3	Ft3 each	Dismantle Plant Building		$	79725
Pumps	69	each	5	Ft3 each				
Downhole Pumps	602	each	0.5	Ft3 each	Concrete floor removal rate	Current Cost	$/ft2	14.04
Contaminated Piping	4625	feet	See estimate by piping size and material					
Uncontaminated Piping	4625	feet						
Filters	24	each	100	Ft3 each				
Dryer	2	each	400	Ft3 each				
Average PVC Pipe Diameter (inches)	6							

Plant Decontamination

Direct Dispose Plant Floor Area	5450	ft2	Decon Solution (HCl) Floor Application Rate	2	gal/ft2
Uncontaminated Plant Floor Area	7000	ft2			
Decontaminated Plant Floor Area*	18146	ft2			
Average concrete thickness	0.5	ft			
Plant Wall Area	25332	ft2	Decon Solution (HCl) Wall Application Rate	1	gal/ft2