

RECURRING COST	Item	Amount (\$)	Units	Cost Basis
ELECTRICAL	Power Cost (actual costs)	\$0.03650	kw/hr	Current operating cost of electricity - Powder River Energy
LABOR RATES	Supervisor	\$30.04	Hour	Operator Wage below + \$5.00 referenced in WDEQ Guideline 12, Section I
	Power Equipment Operators (Group 1)	\$24.08	Hour	From 2011 Heavy and Highway Prevailing Wages (referenced by state to 2010 State Building Construction Prevailing Wages) WDEQ Guideline 12 I.
	Power Equipment Operators (Group 2)	\$25.04	hour	From 2011 Heavy and Highway Prevailing Wages (referenced by state to 2010 State Building Construction Prevailing Wages) WDEQ Guideline 12 I.
	Laborers (Group 1)	\$15.02	hour	From 2011 Heavy and Highway Prevailing Wages (referenced by state to 2010 State Building Construction Prevailing Wages) WDEQ Guideline 12 I.
	Laborers (Group 2)	\$19.01	hour	From 2011 Heavy and Highway Prevailing Wages (referenced by state to 2010 State Building Construction Prevailing Wages) WDEQ Guideline 12 I.
ANALYTICAL	Guideline 8	\$150	batch	Current rate used in worksheet I
TRANSPORTATION AND DISPOSAL	Distance to Landfill	115	(miles)	The distance from Christensen Ranch/Irigaray to Casper Landfill is ~115 miles
	Transportation Cost	\$0.16	(\$/Ton-Mile)	Estimate from local trucking company (Sept. 2010)
	Solid Waste landfill disposal cost.	\$58.50	Ton	Casper City landfill rates for outside of Natrona County commercial trailer over 8 feet in length.
	Quantity Per Truck Load	20	(Tons)	
	Quantity Per Truck Load	20.0	(Yds ³)	
	11e2 disposal cost	\$100.00	cubic yard	Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
	11e2 disposal cost	\$3.70	cubic foot	Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
	11e2 disposal cost	\$11.00	cubic foot	Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
	11e2 disposal cost	\$297.00	cubic yard	Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
	Onsite Disposal	\$0.26	cubic foot	WDEQ Guideline 12, Appendix K, Concrete Disposal On Site \$6.97yd ³ = \$0.26ft ³
	11e2 Transportation Cost Per Truck	\$2,100.00		Constant cost per load based on current contract with local trucking company
VEHICLE OPERATION	Unit Cost	\$22.69	unit	Cost per WDEQ Guideline 12 Table D-1
PLANT DISMANTLING	Concrete Floor Demolition	\$5.05	square foot	Costs per WDEQ Guideline 12, Appendix K
	Cost of Demolition Per Ft ²	\$0.26	Cubic foot	WDEQ Guideline 12, Appendix K
PLANT/EQUIPMENT DECONTAMINATION AND DISPOSAL	Decontamination	\$0.13	square foot	Based on actual costs
	Decontamination	\$435.00	truck load	Based On actual costs
WELL PLUGGING AND ABANDONMENT	Bentonite Chips	\$5.10	50# bag	Quote from Casper Well (August 2011)
	Cement Cones	\$7.50	per hole	Costs per WDEQ Guideline 12, App. L, Abandonment and Sealing of Drill and Monitor Wells

EQUIPMENT

Dozer	\$74.52	acre	Cost per WDEQ Guideline 12, App M, rough grading/backfill
Backhoe Loader (Cat 430E 4WD)	\$31.53	hour	Cost per WDEQ Guideline 12, Table D-1
Loader (Cat 980G)	\$106.06	hour	Cost per WDEQ Guideline 12, Table D-1
Pick up 4X4 (gasoline)	\$22.69	hour	Cost per WDEQ Guideline 12, Table D-1
Hose Reel	\$45.00	hour	Costs for equipment from operating ISR facility

CULVERT REMOVAL

20 foot culvert	\$122.02		Cost per WDEQ Guideline 12, Appendix J
per foot	\$6.10	foot	

ELECTRICAL POWERLINES & TRANSFORMERS

Distribution/Transmission Lines	\$0.00		Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H
Transformers	\$0.00		Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H

FENCING

Removal	\$0.31	linear foot	WDEQ Guideline 12, Appendix H
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RECLAMATION

Discing and Seeding	\$280	acre	Operator Experience based on Current Contractor Pricing
Top Soil Application	\$0.90	cu/yd	Costs per WDEQ Guideline 12, App. B
Unit Cost - Haul/Place (\$/Yd ³)	\$0.90	cu/yd	Costs are for 1000 foot haul based on WDEQ Guideline 12, Appendix B, cost of \$.842/cubic yard
Unit Cost - Grading (\$/Ac)	\$70.43	acre	Costs per WDEQ Guideline 12, Appendix M D9 dozer

References

Cost estimates were generated from a number of existing sources, primarily operating ISR facilities including:
 Tree's Feasibility Study Moore Ranch Project
 Guideline 12 costs were updated using Nov. 2010 version.
 Smith Ranch 2007-2008 Surety Estimate Revision dated 6/29/07 - Accession Number ML072210876 - 2007-06-29.

Uranium One USA, Inc.
SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, 2011 - 2012
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1

WDEQ Estimate NRC Estimate

I GROUNDWATER RESTORATION - Worksheet 1:			\$6,337,329	\$6,575,380
Adjustment for Inflation =	11.2%			
(Sep. 2006 CPI All Urban Consumers, 202.9, to June 2011, 225.722)			\$712,817	\$739,593
Subtotal Groundwater Restoration			\$7,050,146	\$7,314,973
II DECOMMISSIONING AND SURFACE RECLAMATION:				
A.	Process Plant(s) Equipment Removal and Disposal Worksheet 2		\$246,358	\$246,358
B.	Plant Building(s) Demolition and Disposal Worksheet 3		\$1,210,115	\$1,210,115
C.	Process Pond Sludge and Liner Handling Worksheet 4		\$1,362,012	\$1,362,012
D.	Well Abandonment Worksheet 5		\$740,740	\$740,740
E.	Wellfield Equipment Removal and Disposal Worksheet 6		\$1,430,924	\$1,430,924
F.	Topsoil Replacement and Revegetation Worksheet 7		\$1,038,999	\$1,038,999
G.	Miscellaneous Reclamation Activities Worksheet 8		\$105,330	\$105,330
Sub Total - Decommissioning and Surface Reclamation			\$6,134,477	\$6,134,477
TOTAL RESTORATION AND RECLAMATION			\$13,184,623	\$13,449,449
SUBTOTAL			\$13,184,623	\$13,449,449
Miscellaneous Costs Associated with Third Party Contractors				
		WDEQ		NRC
Project Design		\$200,000.00		0%
Site Security & Liability Assurance		\$200,000.00		0.0%
Contractor Profit & Mobilization		10%		3%
Pre-construction Investigation		1%		
Project Management		3%		2%
On-site monitoring		0.5%		
Longterm Administration		2%		
Subtotal miscellaneous additions to bond		16.5%	5.0%	\$2,575,463 \$672,472.47
SUBTOTAL			\$15,760,085	\$14,121,922
		WDEQ		NRC
Contingency		4%	15%	\$630,403 \$2,118,288
GRAND TOTAL RESTORATION AND RECLAMATION			\$16,390,489	\$16,240,210

GROUNDWATER RESTORATION

Technical Assumptions:	Ingruity Mine Unit #1 Thru #5	Ingruity Mine Unit #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Wellfield Area (Ft)	522720	784080	890000	798944	510088	1210988	2021243	1180478	2110000
Affected One Zone Area (Ft)	12.00	18.00	20.43	18.34	11.71	27.30	46.40	27.10	48.44
Avg Completed Thickness (Ft)	522720	784080	890000	798944	550193	1346004	2058344	1180478	2110000
Affected Volume:	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%
Total Volume (Ft)	11290752	20323353.6	14097600	11504793.6	10061929.6	39583685.7	64615534.8	30597937.92	60788000
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Gallons Per Cubic Foot	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125864282	59506899.67	118181806.4
Number of Wells in Unit(s)	150	274	91	176	81	134	178	167	235
Production Wells	310	330	195	287	130	188	202	389	525
Injection Wells	150	165	50	47	33	72	64	66	82
Monitor Wells	19	27	24	19	15	25	47	11	18
Baseline Water Quality wells (prod or inj)	35	35	85	70	85	85	100	70	70
Average Well Spacing (Ft)	250	250	345	300	430	450	520	550	330
Average Well Depth (Ft)									

I. GROUNDWATER SWEEP

A. PLANT & OFFICE	200	200	200	200	200	200	200	200	200
Operating Assumptions:									
Flowrate (gpm)	27417012.5	22374522.6	19568440.7	75057000	125864282	59506899.67	118181806.4		
PVs Required	27417	22375	19568	75057	125864	59507	118182		
Total Gallons For Treatment	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Total KGals for Treatment	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Cost Assumptions:	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365
Power	200	200	200	200	200	200	200	200	200
Avg Connected Hp	12000	12000	12000	12000	12000	12000	12000	12000	12000
Kwh's/Hp	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Gallons Per Minute	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Cost Per Hour	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101
Cost Per Gallon	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Cost Per KGal (\$)	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379
Antiscalant (\$/KGals)	\$0.131	\$0.127	\$0.115	\$0.050	\$0.056	\$0.056	\$0.056	\$0.056	\$0.056
Elution (\$/KGals)	\$0.464	\$0.460	\$0.448	\$0.383	\$0.434	\$0.434	\$0.434	\$0.434	\$0.434
Repair & Maintenance (\$/KGals)	\$12.718	\$10.231	\$8.758	\$28.713	\$61.534	\$25.800	\$51.240		
Analysis (\$/KGals)									
Total Cost Per KGal	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65
Utilities	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Power (\$/Month)	137085	111873	97842	375285	628321	10472	0	0	0
Telephone (\$/Month)	2285	1855	1631	6255	10472	436	0	0	0
Time For Treatment	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Minutes For Treatment	3.1	2.6	2.2	8.6	14.3	0.0	0.0	0.0	0.0
Hours For Treatment	0.052	0.043	0.037	0.143	0.239	0.000	0.000	0.000	0.000
Days For Treatment	0.0022	0.0018	0.0015	0.0058	0.0096	0.000	0.000	0.000	0.000
Average Days Per Month	0.00022	0.00018	0.00015	0.00058	0.00096	0.000	0.000	0.000	0.000
Months For Treatment	4.5	5.6	6.5	17.1	28.8	0.0	0.0	0.0	0.0
Utilities Cost (\$)	\$1,291	\$1,174	\$1,020	\$3,841	\$6,810	\$1,050	\$2,140	\$0	\$0
TOTAL PLANT & OFFICE COST	\$14,487	\$11,734	\$10,020	\$33,554	\$59,639	\$8,105	\$25,800	\$0	\$51,240

B. WELLFIELD

Cost Assumptions:	20	20	20	20	20	20	20	20	20
Power									
Avg Flow/Pump (gpm)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg Hp/Pump	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg # of Pumps Required	30	30	30	30	30	30	30	30	30
Avg Connected Hp	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
Kwh's/Hp	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365
\$/Kwh									

GROUNDWATER RESTORATION		Ingrary Mine Unit #1 Thru #5	Ingrary Mine Unit #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Gallons Per Minute				200	200	200	200	200	200	200
Gallons Per Hour				12000	12000	12000	12000	12000	12000	12000
Cost Per Hour (\$)				\$0.91	\$0.91	\$0.91	\$0.91	\$0.91	\$0.91	\$0.91
Cost Per Gallon (\$)				\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)				0.076	0.076	0.076	0.076	0.076	0.076	0.076
Repair & Maintenance (\$/KGals)				\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289
Total Cost Per KGal				\$0.365	\$0.365	\$0.365	\$0.365	\$0.365	\$0.365	\$0.365
TOTAL WELLFIELD COST	\$0	\$0	\$0	\$9,170	\$7,145	\$7,145	\$7,145	\$7,145	\$7,145	\$7,145
TOTAL GROUND WATER SWEEP COST	\$0	\$0	\$0	\$24,498	\$19,904	\$17,165	\$20,960	\$11,524	\$47,528	\$94,392

II. REVERSE OSMOSIS

A. PLANT & OFFICE

Operating Assumptions:		Ingrary Mine Unit #1 Thru #5	Ingrary Mine Unit #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Flowrate (gpm)		500	500	500	500	500	500	500	500	500
PV's Required		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Total Gallons For Treatment		137085062	111872813	97942200.3	97942200.3	97942200.3	375285000	628321461	59506969.7	1181816084
Total KGals for Treatment		137085	111873	97942	97942	97942	375285	628321	595069	1181816
Feed to RO (gpm)		500	500	500	500	500	500	500	500	500
Permeate Flow (gpm)		375	375	375	375	375	375	375	375	375
Brine Flow (gpm)		125	125	125	125	125	125	125	125	125
Average RO Recovery		75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
Cost Assumptions:										
Power		\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00
Avg Connected Hp		0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
Kwh's/Hp		\$0.0965	\$0.0965	\$0.0965	\$0.0965	\$0.0965	\$0.0965	\$0.0965	\$0.0965	\$0.0965
Gallons Per Minute		500	500	500	500	500	500	500	500	500
Gallons Per Hour		30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)		\$16.97	\$16.97	\$16.97	\$16.97	\$16.97	\$16.97	\$16.97	\$16.97	\$16.97
Cost Per Gallon (\$)		\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057
Cost Per KGal (\$)		\$0.566	\$0.566	\$0.566	\$0.566	\$0.566	\$0.566	\$0.566	\$0.566	\$0.566
Chemicals										
Caustic Soda (\$/KGals)		\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018
Antiscalant (\$/KGals)		\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Etulon (\$/KGals)		\$0.089	\$0.089	\$0.089	\$0.089	\$0.089	\$0.089	\$0.089	\$0.089	\$0.089
Repair & Maintenance (\$/KGals)		\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038
Sampling & Analysis (\$/KGals)		\$0.090	\$0.122	\$0.092	\$0.092	\$0.092	\$0.092	\$0.092	\$0.092	\$0.092
Total Cost Per KGal (\$)		\$0.905	\$0.937	\$0.907	\$0.907	\$0.907	\$0.907	\$0.907	\$0.907	\$0.907
Total Pumping Cost (\$)	\$0	\$0	\$0	\$104,788	\$88,752	\$88,752	\$320,397	\$531,949	\$512,194	\$951,206
Utilities										
Power (\$/Month)		\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65
Propane (\$/Month)		\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment										
Minutes For Treatment		274170	223745	195884	195884	195884	750570	1256643	1190137	2363632
Hours For Treatment		4570	3729	3261	3261	3261	12510	20944	19836	39394
Days For Treatment		190	155	136	136	136	521	873	826	1641
Average Days Per Month		30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment		6.3	5.1	4.5	4.5	4.5	17.1	27.2	27.2	54.0
Utilities Cost (\$)	\$0	\$3,550	\$2,892	\$2,543	\$2,543	\$2,543	\$9,662	\$16,216	\$16,368	\$30,510
TOTAL PLANT & OFFICE COST	\$0	\$0	\$0	\$107,670	\$91,294	\$91,294	\$320,059	\$548,165	\$527,562	\$1,021,716

B. WELLFIELD

Cost Assumptions:		Ingrary Mine Unit #1 Thru #5	Ingrary Mine Unit #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Power										
Avg Flow/Pump (gpm)		20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Avg Hp/Pump		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Avg Connected Hp		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Kwh's/Hp		0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
Gallons Per Minute		\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365
Gallons Per Hour		30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)		\$2.27	\$2.27	\$2.27	\$2.27	\$2.27	\$2.27	\$2.27	\$2.27	\$2.27
Cost Per Gallon (\$)		\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)		\$0.076	\$0.076	\$0.076	\$0.076	\$0.076	\$0.076	\$0.076	\$0.076	\$0.076
Repair & Maintenance (\$/KGals)		\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289

Agency Mine Unit #1 Thru #5	Agency Mine Unit #6 Thru #9	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612
Operating Assumptions:	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612
Annual Evaporation Capacity (Gals)	159,801	159,801	159,801	159,801	159,801	159,801	159,801
Avg. Monthly Exp. Capacity (Gals)	34,271	34,271	34,271	34,271	34,271	34,271	34,271
Total Disposal Requirement	27,988,153	27,988,153	27,988,153	27,988,153	27,988,153	27,988,153	27,988,153
RO Brine Total Gallons	24,460,551	24,460,551	24,460,551	24,460,551	24,460,551	24,460,551	24,460,551
Brine Concentrated Brine (Gals)	24,461	24,461	24,461	24,461	24,461	24,461	24,461
Total Concentrated Brine (Gals)	24,485,012	24,485,012	24,485,012	24,485,012	24,485,012	24,485,012	24,485,012
Months of RO Operation	16,780,892	16,780,892	16,780,892	16,780,892	16,780,892	16,780,892	16,780,892
Average Monthly Runmt (Gallons)	5.3	5.1	5.1	5.1	5.1	5.1	5.1
Monthly Balance for CDW (Gals)	3,263,930	3,290,371	3,261,407	3,291,974	3,283,910	3,281,629	3,282,822
Total CDW Disposal (Gallons)	3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,121,828	3,123,021
Total WDW Disposal (KGals)	19,556,013	19,556,013	19,556,013	19,556,013	19,556,013	19,556,013	19,556,013
Total WDW Disposal (KGals)	19,556	19,556	19,556	19,556	19,556	19,556	19,556
Power							
Avg Connected Hp	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WDW Avg Connected Hp	180.00	180.00	180.00	180.00	180.00	180.00	180.00
Kwh's/Hp	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365
Gallons Per Minute	150	150	150	150	150	150	150
Gallons Per Hour	9000	9000	9000	9000	9000	9000	9000
Cost Per Hour (\$)	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48
Cost Per Gallon (\$)	\$0.0009	\$0.0009	\$0.0009	\$0.0009	\$0.0009	\$0.0009	\$0.0009
Cost Per KGal (\$)	\$0.943	\$0.943	\$0.943	\$0.943	\$0.943	\$0.943	\$0.943
Chemicals (\$/KGals)	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190
RO Antiscalant (\$/KGals)	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237
WDW Antiscalant (\$/KGals)	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534
Sulfuric Acid (\$/KGals)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Corrosion Inhibitor	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111
Alcohide	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077
Repair & Maint (\$/KGals)	\$2.092	\$2.092	\$2.092	\$2.092	\$2.092	\$2.092	\$2.092
Total Cost Per KGal	\$40.902	\$40.902	\$40.902	\$40.902	\$40.902	\$40.902	\$40.902
TOTAL WASTE DISPOSAL WELL COST	\$33,393	\$33,393	\$33,393	\$33,393	\$33,393	\$33,393	\$33,393

	9	9	9	9	9	9	9
Operating Assumptions:	9	9	9	9	9	9	9
Time of Stabilization (mos)	3	3	3	3	3	3	3
Frequency of Analysis (mos)	4	4	4	4	4	4	4
Total Sets of Analysis	\$280	\$280	\$280	\$280	\$280	\$280	\$280
Cost Assumptions:	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600
Generator Rental per sample set	\$15,520	\$15,520	\$15,520	\$15,520	\$15,520	\$15,520	\$15,520
Analytical costs per set	\$565	\$565	\$565	\$565	\$565	\$565	\$565
Total Sampling & Analysis Cost (\$)	\$5,085	\$5,085	\$5,085	\$5,085	\$5,085	\$5,085	\$5,085
Utilities (Power + Telephone per month)	\$17,605	\$17,605	\$17,605	\$17,605	\$17,605	\$17,605	\$17,605
Total Utilities Cost (\$)	\$22,690	\$22,690	\$22,690	\$22,690	\$22,690	\$22,690	\$22,690
TOTAL STABILIZATION COST	\$28,370	\$28,370	\$28,370	\$28,370	\$28,370	\$28,370	\$28,370
LABOR (Agency and Christensen Combined)							
Cost/Hour	2080	2080	2080	2080	2080	2080	2080
Hours/Year	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00
Cost	\$52,000	\$52,000	\$52,000	\$52,000	\$52,000	\$52,000	\$52,000
1 Supervisor	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00
4 Operators	\$83.200	\$83.200	\$83.200	\$83.200	\$83.200	\$83.200	\$83.200
2 Maintenance	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
2 Vehicles	\$20.800	\$20.800	\$20.800	\$20.800	\$20.800	\$20.800	\$20.800
Cost per Year	\$551,520	\$551,520	\$551,520	\$551,520	\$551,520	\$551,520	\$551,520
Time Required - Years	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL RESTORATION LABOR COST	\$703,040	\$703,040	\$703,040	\$703,040	\$703,040	\$703,040	\$703,040

GROUNDWATER RESTORATION

Ingrary Mine Unit(s) #1 Thru #5	Ingrary Mine Unit(s) #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
		Total						
		Christensen Mine Unit #2 & Ingrary						

VI. RESTORATION CAPITAL REQUIREMENTS

I Deep Disposal Well(s) - new	\$0
II Plug and Abandon CR DW-1	\$73,950
III Plug and Abandon CR 19-3	\$86,250
IV 500 GPM Reverse Osmosis Unit	\$0
Total	\$0 \$140,200

	Ingrary Mine Unit(s) #1 Thru #5	Ingrary Mine Unit(s) #6 Thru #8	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	TOTAL
SUMMARY:										
I GROUNDWATER SWEEP	\$0	\$0	\$24,498	\$19,904	\$17,165	\$60,960	\$115,524	\$47,528	\$94,392	\$5,732,140
II REVERSE OSMOSIS	\$0	\$0	\$201,309	\$167,783	\$143,069	\$531,714	\$895,785	\$795,951	\$1,554,760	\$705,040
III WASTE DISPOSAL WELL	\$0	\$0	\$40,902	\$33,393	\$29,192	\$112,022	\$187,529	\$177,598	\$352,719	\$140,200
IV STABILIZATION	\$0	\$0	\$20,605	\$17,505	\$15,205	\$21,205	\$34,405	\$12,805	\$15,805	\$0
SUB TOTAL	\$0	\$0	\$287,314	\$238,685	\$205,431	\$725,900	\$1,223,243	\$1,033,892	\$2,017,676	\$6,575,380
V LABOR										\$0
V CAPITAL										\$0
TOTAL GROUNDWATER RESTORATION COST			\$24,498	\$19,904	\$17,165	\$60,960	\$115,524	\$0	\$0	\$6,575,380
Credit for Completion of Groundwater Sweep (WDEQ)										\$0
Credit for Completion of Reverse Osmosis (WDEQ)										\$0
Credit Completion of Stabilization Monitoring (WDEQ)										\$0
Grand Total WDEQ	\$0	\$0	\$24,498	\$19,904	\$17,165	\$60,960	\$115,524	\$0	\$0	\$238,051
Grand Total NRC (no credit)	\$0	\$0	\$287,314	\$238,685	\$205,431	\$725,900	\$1,223,243	\$1,033,892	\$2,017,676	\$6,337,329
Grand Total NRC (no credit)										\$6,575,380

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Main Area & Laboratory				Ingaray				Christensen				Sub Total
	Main Process Building	Expansion Building	Resin +Sand Filter Media	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Resin + Sand Filter Media	Restoration Extension	Wellfield Modules	Sub Total		
Volume (Yds ³)	40	0	188	110	40	0	116	215.6	42	77.5			
Quantity Per Truck Load (Yds ³)	20	20	20	20	20	20	20	20	20	20			
Number of Truck Loads	2.0	0.0	9.4	5.5	2.0	0.0	5.80	10.8	2.1	3.9			
I Decontamination Cost													
Decontamination Cost (\$/Load)	\$435	\$435	\$435	\$435	\$435	\$435	\$435	\$435	\$435	\$435			
Percent Requiring Decontamination	20.0%	100.0%	100.0%	0.0%	100.0%	100.0%	100.0%	0.0%	100.0%	100.0%			
Total Cost	\$174	\$0	\$4,089	\$0	\$870	\$0	\$2,523	\$0	\$914	\$1,686	\$5,122		
II Dismantle and Loading Cost													
Cost Per Truck Load (\$)	\$650	\$650	\$650	\$650	\$650	\$650	\$650	\$650	\$650	\$650			
Total Cost	\$1,300	\$0	\$5,110	\$3,975	\$1,300	\$0	\$3,770	\$7,007	\$1,355	\$2,519	\$14,661		
III Oversize Charges													
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%	40.0%	0.0%	40.0%	0.0%			
Cost Per Truck Load (\$)	\$326	\$326	\$326	\$326	\$326	\$326	\$326	\$326	\$326	\$326			
Total Cost	\$261	\$0	\$1,226	\$0	\$391	\$0	\$756	\$0	\$274	\$0	\$1,030		
IV Transportation & Disposal													
A. Landfill													
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%	80.0%	0.0%	80.0%	80.0%			
Transportation Cost Per Truck Load	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368			
Transportation Cost	\$589	\$0	\$2,767	\$0	\$368	\$0	\$1,708	\$0	\$618	\$1,141			
Disposal Fee Per Ton (1 yd ³ = 1 ton)	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50			
Disposal Cost (\$)	\$1,872	\$0	\$8,798	\$0	\$1,170	\$0	\$5,429	\$0	\$1,966	\$3,627			
Total Cost	\$2,461	\$0	\$11,565	\$0	\$1,538	\$0	\$7,136	\$0	\$2,584	\$4,768			
B. Licensed Site													
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%	20.0%	100.0%	20.0%	20.0%			
Transportation Cost Per Truck Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100			
Transportation Cost	\$840	\$0	\$3,948	\$11,550	\$2,100	\$0	\$2,436	\$22,638	\$892	\$1,628			
Disposal Cost Per Cubic Foot (\$)	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00			
Quantity Per Truck Load (Yds ³)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0			
Quantity Per Truck Load (Ft ³)	540	540	540	540	540	540	540	540	540	540			
Disposal Cost	\$2,376	\$0	\$11,167	\$32,670	\$5,940	\$0	\$6,890	\$64,033	\$2,495	\$4,604			
Total Cost Licensed Site	\$3,216	\$0	\$15,115	\$44,220	\$8,040	\$0	\$9,326	\$86,671	\$3,377	\$6,231			
Total Cost Transportation & Disposal	\$5,677	\$0	\$26,681	\$44,220	\$9,578	\$0	\$16,463	\$86,671	\$5,961	\$10,999	\$120,093		
TOTAL COST	\$7,412	\$0	\$38,106	\$47,795	\$12,139	\$0	\$23,512	\$93,678	\$8,513	\$15,203	\$140,906		
TOTAL COST - IRIGARAY AND CHRISTENSEN											\$246,358		

Structural Character	Main Area & Warehouse Laboratory			Integrity Expansion Building			Christensen Booster Pump Bldgs.			Office Building Warehouse			Sub Total	Sub Total
	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Sheel/Masonry	1 Story Steel Frame	2 Story Steel Frame	1 Story Pro Fab (S)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	1 Story Steel Frame		

Demolition Volume (Ft³)	179,400	430,400	386,400	126,000	698,400	192,000	133,920	59,400	72,000	64,800	11,000			
Cost of Demolition Per Ft³	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600	\$0.2600
Factor For Cutting	\$46,644	\$111,904	\$100,464	\$32,760	\$18,108	\$49,920	\$34,819	\$15,184	\$18,720	\$16,848	\$2,860	\$138,351		
Cost For Cutting (\$)	15.0%	30.0%	10.0%	20.0%	10.0%	20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	10.0%		
Weight (pounds)	\$6,987	\$33,571	\$10,046	\$6,552	\$1,811	\$9,984	\$9,984	\$0	\$3,744	\$1,665	\$286	\$15,889		
Weight per Truckload (Tons)	158,781	388,885	341,947	111,504	61,628	169,912	66,660	28,032	63,717	38,802	9,735			
Number of Truckloads	4.0	9.5	8.5	2.8	1.5	4.2	2.0	0.7	1.6	1.0	0.2			
Distance to Landfill	115	115	115	115	115	115	115	115	115	115	115			
Unit Cost (Ton/Mile)	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16	\$0.16			
Transportation Cost per Truckload	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368	\$368			
Transportation Cost (\$)	\$1,451	\$3,504	\$3,146	\$1,026	\$567	\$1,563	\$513	\$253	\$596	\$357	\$90	\$3,467		
Disposal Cost per Truckload	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00		
Disposal Cost (\$)	\$4,644	\$11,141	\$10,002	\$3,261	\$1,803	\$4,970	\$1,950	\$820	\$1,854	\$1,135	\$285	\$14,023		
TOTAL COST	\$57,745	\$160,120	\$123,658	\$43,599	\$22,287	\$66,437	\$37,382	\$16,262	\$24,914	\$20,023	\$3,590	\$166,540		
TOTAL COST IRIGARAY AND CHRISTENSEN														\$612,743

CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL

Area (Ft²)	8020	17,600	18,400	5,600	3,600	9,600	0	1,800	3,600	0	1,000			
Average Thickness (Ft)	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Volume (Ft³)	4010	8,800	9,200	5,600	1,800	4,800	0	900	1,800	0	500			
Percent Requiring Decontamination	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%			
Decontamination (\$/Ft²)	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134			
Decontamination Cost	\$0	\$1,769	\$1,849	\$750	\$241	\$665	\$0	\$241	\$241	\$0	\$0			
Demolition (\$/Ft²)	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05	\$5.05			
Demolition Cost	\$40,501	\$88,880	\$92,920	\$28,280	\$18,180	\$48,480	\$0	\$9,090	\$18,180	\$0	\$5,050	\$1,688		
Transportation & Disposal														
A. Onsite Disposal														
Percent to be Disposed Onsite	100%	90%	90%	40%	90%	90%	0%	100%	100%	0%	100%			
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Disposal Cost per Cubic Foot	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260	\$0.260			
Disposal Cost (\$)	\$1,043	\$2,059	\$2,153	\$582	\$421	\$1,223	\$0	\$234	\$468	\$0	\$130	\$1,955		
B. Licensed Site														
Percent to be Shipped	0%	10%	10%	60%	10%	10%	100%	0%	0%	100%	0%			
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100			
Transportation Cost (\$)	\$0	\$3,422	\$3,578	\$13,067	\$700	\$1,867	\$0	\$0	\$0	\$2,100	\$2,100			
Disposal Cost per Cubic Foot	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70			
Quantity Per Truck Load (Yds)	20	20	20	20	20	20	20	20	20	20	20			
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	540	540	540			
Disposal Cost (\$)	\$0	\$3,259	\$3,407	\$12,444	\$667	\$1,778	\$0	\$0	\$0	\$2,100	\$2,100			
TOTAL COST	\$41,544	\$98,778	\$103,907	\$54,674	\$20,330	\$58,622	\$0	\$9,565	\$19,130	\$0	\$5,180	\$1,778		
TOTAL COST IRIGARAY AND CHRISTENSEN														\$644,710

SOIL REMOVAL & DISPOSAL

Assume removal of 3' of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.	\$106													
Removal With Loader (\$/100hr)	\$0	\$0	\$1,807	\$550	\$354	\$943	\$0	\$0	\$0	\$0	\$0	\$943		
Quantity to be Shipped (Ft³)	0	4,400	4,600	1,400	900	2,400	0	0	0	0	0	0		
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		
Transportation Cost (\$)	\$0	\$9,240	\$9,660	\$2,940	\$1,890	\$5,040	\$0	\$0	\$0	\$0	\$0	\$0		
Disposal fee Per Cubic Foot (\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	540	540	540	540		
Disposal Cost (\$)	\$0	\$16,296	\$17,037	\$5,185	\$3,333	\$8,889	\$0	\$0	\$0	\$0	\$0	\$0		
Removal, NPDES Pits														
Quantity to be Shipped (Ft³)	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		
Transportation Cost per Truckload														

	Irigaray				Christensen						Sub Total	
	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building		Warehouse
Transportation Cost (\$)	\$0	\$2,174	\$0	\$0	\$2,174	\$19,562	\$0	\$0	\$0	\$0	\$0	\$19,562
Disposal fee Per Cubic Foot(\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70
Quantity per Truckload (Ft)	540	540	540	540	540	540	540	540	540	540	540	540
Disposal Cost (\$)	\$0	\$2,070	\$0	\$0	\$2,070	\$18,630	\$0	\$0	\$0	\$0	\$0	\$18,630
Total Cost	\$0	\$39,379	\$36,733	\$7,187	\$94,479	\$57,356	\$0	\$0	\$0	\$0	\$0	\$57,356
TOTAL COST IRIGARAY AND CHRISTENSEN	\$0	\$39,379	\$36,733	\$7,187	\$94,479	\$57,356	\$0	\$0	\$0	\$0	\$0	\$151,835

RADIATION SURVEY	
Area required (acres)	0.18
Survey Cost (\$/acre)	\$520.00
TOTAL SURVEY COST (\$)	\$96

TOTAL COST	\$101,385	\$71,571	\$289,099	\$264,518	\$109,520	\$37,382	\$25,848	\$44,087	\$20,025	\$8,712	\$314,176
TOTAL COST IRIGARAY AND CHRISTENSEN											\$1,210,115

	Infiltrary				Christensen				Permeate Pond			
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1		Brine Pond 2	Brine Pond 3	Brine Pond 4
POND RECLAMATION COST												
POND SLUDGE:												
Average Sludge Depth (Ft)	0.156	0.155	0.155	0.155	0.155	0.155	0.156	0.166	0.222	0.143	0.068	0.000
Average Area of Sludge (Ft ²)	50,604	50,604	50,604	50,604	50,604	50,604	64,299	20,909	20,909	20,909	20,909	0.000
Volume of Sludge (Yds ³)	7,907	7,907	7,907	7,907	7,907	10,047	10,047	3,466	4,651	2,983	1,414	-
Volume of Sludge Per Truck Load (Yds ³)	20.0	20.0	20.0	20.0	20.0	372	372	128	172	110	52	0
# of Truck Loads of Sludge	14.7	14.7	14.7	14.7	14.7	18.6	18.6	6.4	8.6	5.5	2.6	0.0
Sludge Handling Cost Per Load (\$)	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00
Total Sludge Handling Cost (\$)	\$3,528	\$3,528	\$3,528	\$3,528	\$3,528	\$4,464	\$4,464	\$1,536	\$2,064	\$1,320	\$624	\$0
Transportation & Disposal												
Percent To Be Shipped to Licensed Site	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Disposal Cost Per Cubic Foot (\$)	\$30.870	\$30.870	\$30.870	\$30.870	\$30.870	\$30.870	\$30.870	\$13.440	\$18.060	\$11.550	\$5.460	\$0
Quantity Per Truck Load (Yds ³)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Quantity Per Truck Load (Ft ³)	540	540	540	540	540	540	540	540	540	540	540	540
Disposal Cost (\$)	\$87,318	\$87,318	\$87,318	\$87,318	\$87,318	\$110,484	\$110,484	\$38,016	\$51,084	\$32,670	\$15,444	\$0
Total Transportation & Disposal (\$)	\$118,188	\$118,188	\$118,188	\$118,188	\$118,188	\$149,544	\$149,544	\$51,456	\$69,144	\$44,220	\$20,904	\$0
TOTAL SLUDGE COST (\$)	\$121,716	\$121,716	\$121,716	\$121,716	\$121,716	\$154,008	\$154,008	\$52,992	\$71,208	\$45,540	\$21,528	\$0
POND LINER:												
Total Pond Area (Acres)	1.72	1.72	1.72	1.72	1.72	2.17	2.17	1.10	1.10	1.10	1.10	0.00
Total Pond Area (Ft ²)	74923.2	74923.2	74923.2	74923.2	74923.2	94525.2	94525.2	47916	47916	47916	47916	0
Factor For Sloping Sides	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%
Total Liner Area (Ft ²)	89908	89908	89908	89908	89908	113430	113430	68660	57489	57489	57489	0
Liner Thickness (Mil)	30	30	30	30	30	30	30	30	30	30	30	0
Liner Thickness (Inches)	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0
Liner Thickness (Feet)	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0
"Swell" Factor	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	0.0%
Liner Volume (Ft ³)	281	281	281	281	281	354	354	1287	180	180	180	0
Truck Loads of Liner	0.5	0.5	0.5	0.5	0.5	0.7	0.7	2.4	0.3	0.3	0.3	0.0
Liner Handling Cost (\$)	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$0
Labor Crew Cost per Hour (\$)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	\$0
Hours per Load	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$320.36	\$0.00
Liner Handling Cost Per Load (\$)	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$160	\$0
Total Liner Handling Cost (\$)	\$80	\$80	\$80	\$80	\$80	\$1,249	\$1,249	\$769	\$96	\$96	\$96	\$0
Transportation & Disposal												
Percent To Be Shipped to Licensed Site	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Disposal Cost Per Cubic Foot (\$)	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050
Quantity Per Truck Load (Ft ³)	540	540	540	540	540	540	540	540	540	540	540	540
Disposal Cost (\$)	\$2,970	\$2,970	\$2,970	\$2,970	\$2,970	\$5,724	\$5,724	\$14,286	\$1,782	\$1,782	\$1,782	\$0
Total Transportation & Disposal (\$)	\$4,020	\$4,020	\$4,020	\$4,020	\$4,020	\$5,628	\$5,628	\$19,296	\$2,412	\$2,412	\$2,412	\$0
TOTAL LINER COST (\$)	\$4,100	\$4,100	\$4,100	\$4,100	\$4,100	\$5,852	\$5,852	\$20,065	\$2,508	\$2,508	\$2,508	\$0
TOTAL BACKFILL:	\$740	\$740	\$740	\$740	\$740	\$1,467	\$1,467	\$0	\$0	\$0	\$0	\$0
Backfill required (Yds ³)	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90
Backfill Cost (\$/Yr)	\$7,866	\$7,866	\$7,866	\$7,866	\$7,866	\$16,887	\$16,887	\$8,143	\$8,143	\$8,143	\$8,143	\$16,283
TOTAL BACKFILL COST (\$)	\$7,866	\$7,866	\$7,866	\$7,866	\$7,866	\$16,887	\$16,887	\$8,143	\$8,143	\$8,143	\$8,143	\$16,283
RADIATION SURVEY												
Area required (acres)	1.72	1.72	1.72	1.72	1.72	2.90	2.90	1.10	1.10	1.10	1.10	0
Survey Cost (\$/acre)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
TOTAL SURVEY COST (\$)	\$0	\$894	\$894	\$894	\$894	\$1,508	\$1,508	\$572	\$572	\$572	\$572	\$0
LEAK DETECTION SYSTEM REMOVAL												
Volume of Gravel and Piping (Ft ³) (Assume 3')								26,250				
Quantity per Truckload (Ft ³)								540				
Quantity to be Shipped to Licensed Site (Loads)								49				
Transportation Cost per Truckload								\$2,100				
Transportation Cost (\$)								\$102,000				
Handling Cost per load								\$15,573				
Disposal Fee per Cubic Foot (\$)								\$11				
Disposal Cost (\$)								\$288,750				

	Idagary				Christensen							
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond
POND RECLAMATION COST												
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$406,323	\$0	\$0	\$0	\$0
TOTAL POND RECLAMATION COST	\$7,866	\$134,512	\$7,866	\$156,249	\$2,285	\$201,276	\$175,675	\$483,085	\$82,431	\$56,763	\$32,751	\$16,263
												\$1,362,012

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST (\$)	\$551,448
TOTAL LINER COST (\$)	\$68,554
TOTAL BACKFILL COST (\$)	\$61,283
TOTAL RADIATION SURVEY COST (\$)	\$4,424
LEAK DETECTION SYSTEM REMOVAL	\$0
TOTAL POND RECLAMATION COST	\$685,709

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)	\$191,268
TOTAL LINER COST (\$)	\$27,589
TOTAL BACKFILL COST (\$)	\$48,835
TOTAL RADIATION SURVEY COST (\$)	\$2,288
LEAK DETECTION SYSTEM REMOVAL	\$406,323
TOTAL POND RECLAMATION COST	\$676,303

TOTAL PROJECT COST - CR and IR (\$) \$1,362,012

WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen				Sub Total	Sub Total			
	Mine Units #1 Thru #9	517 USMT Test Sites	Monitor/Trend	Sub Total	Mine Units #2	#3	#4	#5			#6	#7	#8
	0	11		11	286	443	211	322			380	556	780
Production / Injection Wells (Inclusive of Misc. Baseline / Regional Wells)					50	47	33	72	64	86	82	2958	
Monitor Wells (Shallow, Deep, Porimeter)					336	490	244	394	444	622	842	414	
Total					345	300	430	450	520	550	830	3372	
Average Depth	250	250	250	250	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
Average Diameter	4.5	4.5	4.5	4.5									
Materials													
Bentonite Chips Required (Ft/Well)	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4		
Bags of Chips Required/Well	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		
Cost Per Bag (\$)	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10	\$5.10		
Cost/Well Bentonite Chips (\$)	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50	\$76.50		
Gravel Fill Required (Ft/Well)	15.7	15.7	15.7	15.7	26.5	21.5	35.9	38.1	45.8	49.1	24.9		
Gravel Fill Required (Yd/Well)	0.58	0.58	0.58	0.58	0.98	0.80	1.33	1.41	1.70	1.82	0.92		
Cost of Gravel/Yc (\$)	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00		
Cost/Well Gravel Fill (\$)	\$11.63	\$11.63	\$11.63	\$11.63	\$19.63	\$15.93	\$26.59	\$28.22	\$33.93	\$36.37	\$18.44		
Cement Cones/Markers Req'd/Well	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Cost of Cement Cones/Markers (\$)	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50		
Total Materials Cost per Well	\$95.63	\$95.63	\$95.63	\$95.63	\$103.63	\$99.93	\$110.59	\$112.22	\$117.93	\$120.37	\$102.44		
Labor													
Hours Required per Well	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Labor Cost per Hour	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12		
Total Labor Cost per Well (\$)	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12	\$54.12		
Equipment Rental													
Hours Required per Well	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Backhoe w/Operator Cost/Hr (\$)	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61		
Total Equipment Cost per Well (\$)	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61	\$55.61		
Total Cost per Well (\$)	\$205.36	\$205.36	\$205.36	\$205.36	\$213.36	\$209.66	\$220.32	\$221.95	\$227.66	\$230.10	\$212.17		
TOTAL WELL ABANDONMENT COST (\$)	\$0	\$2,259	\$0	\$2,259	\$71,689	\$102,731	\$53,759	\$67,449	\$101,079	\$143,122	\$178,651	\$738,481	
GRAND TOTAL IRIGARAY AND CHRISTENSEN												\$740,740	

	Ingrary Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Ingrary
I. Wellfield Piping							
A. Removal							
Length/Wall (Ft)	100	300	300	300	500	230	
Total Number of Wells	622	940	322	380	558	760	
Total Quantity (Ft)	60200	282000	96600	114000	278000	174800	
Cost of Removal (\$/Ft)	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	
Cost of Removal (\$)	\$12,160	\$55,964	\$19,513	\$23,028	\$55,156	\$35,310	\$203,131
Average OD (Inches)	3.0	3.0	3.0	3.0	3.0	3.0	
Chipped Volume Reduction (Ft ³ /Ft)	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft ³)	963	4,512	1,546	1,824	4,448	2,787	
Quantity Per Truck Load (Ft)	540	540	540	540	540	540	
Total Number of Truck Loads	1.8	8.4	2.9	3.4	8.2	5.2	
B. Survey & Decontamination							
Percent Requiring Decontamination Loads for Decontamination	0%	0%	0%	0%	0%	0%	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped Loads To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$6,060
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$6,060
b. Disposal							
Disposal Fee Per Yr ²	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	
Yr ² Per Load	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$6,060
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$12,119
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped Loads To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$51,870
Transportation Cost (\$)	\$3,780	\$17,640	\$6,090	\$7,140	\$17,220	\$0	\$51,870
b. Disposal							
Disposal Cost Per Ft ²	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yr ²	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yr ²)	20	20	20	20	20	20	
Disposal Cost (\$)	\$10,692	\$48,896	\$17,226	\$20,195	\$48,708	\$0	\$146,718
Total Cost - Licensed Site	\$14,472	\$67,536	\$23,316	\$27,336	\$65,928	\$0	\$198,588
Total Cost - W/F Piping Removal & Disposal	\$28,632	\$124,500	\$42,829	\$50,364	\$122,084	\$47,429	\$413,839
II. Production Well Pumps							
A. Pump and Tubing Removal							
Number of Production Wells	0	348	134	178	167	235	
Cost of Removal (\$/Well)	\$60.91	\$60.91	\$60.91	\$60.91	\$60.91	\$60.91	
Cost of Removal (\$)	\$0	\$21,185	\$8,161	\$10,841	\$10,171	\$14,313	\$54,681
Number of Pumps Per Truck Load	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.3	0.7	1.0	0.9	1.3	
B. Survey & Decontamination (Pumps)							
Percent Requiring Decontamination Loads for Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$565	\$174	\$218	\$218	\$0	\$1,044
C. Tubing Volume Reduction & Loading							
Length per Well (Ft)	100	300	300	450	500	230	
Total Quantity (Ft)	0	104,400	40,200	80,100	88,500	54,050	
Cost of Removal (\$/Ft)	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	
Cost of Removal (\$)	\$0	\$2,610	\$1,005	\$2,003	\$2,088	\$1,351	\$9,056
Average OD (Inches)	3.0	3.0	3.0	3.0	3.0	3.0	
Chipped Volume Reduction (Ft ³ /Ft)	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft ³)	0	1,670	643	1,282	1,336	865	

	Ingrary Mine Unit #1 Thru #9	Christensen Mine Unit #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Ingrary
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL							
Quantity per Truckload (Ft ³)	540	540	540	540	540	540	
Number of Truck Loads	0.0	3.1	1.2	2.4	2.5	1.6	
D. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%	
Loads To Be Shipped	0.0	1.0	0.4	0.5	0.5	2.9	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$6,201
Transportation Cost (\$)	\$0	\$1,170	\$468	\$585	\$585	\$3,393	
b. Disposal							
Disposal Fee Per Yr	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$6,201
Yds ³ Per Load	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$1,170	\$468	\$585	\$585	\$3,393	\$6,201
Total Cost - Landfill	\$0	\$2,340	\$936	\$1,170	\$1,170	\$6,786	\$12,402
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%	
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
Loads To Be Shipped	0.0	4.0	1.5	2.9	2.9	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$23,902
Transportation Cost (\$)	\$0	\$8,491	\$3,225	\$6,034	\$6,141	\$0	
b. Disposal							
Disposal Cost Per Ft ³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11,000
Disposal Fee Per Yr	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297,000
Quantity Per Truck Load (Yrs)	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$24,017	\$9,154	\$17,068	\$17,369	\$0	\$67,608
Total Cost - Licensed Site	\$0	\$24,017	\$9,154	\$17,068	\$17,369	\$0	\$91,510
Total Cost - Pump Removal & Disposal	\$0	\$34,848	\$13,327	\$24,272	\$24,690	\$6,786	\$103,912
Total Cost - Pump Removal & Disposal	\$0	\$59,696	\$22,667	\$37,333	\$37,156	\$22,450	\$178,693
III. Surface Trunkline Piping							
A. Removal							
Total Quantity (Ft)	0	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0
Cost of Removal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	\$0
Chipped Volume Reduction (Ft ³ /Ft)	0.088	0.088	0.088	0.088	0.088	0.088	\$0
Chipped Volume (Ft ³)	0	0	0	0	0	0	\$0
Quantity Per Truck Load (Ft ³)	540	540	540	540	540	540	\$0
Total Number of Truck Loads	0.0	0.0	0.0	0.0	0.0	0.0	\$0
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$0
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$0
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Fee Per Yr	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$0
Yds ³ Per Load	20	20	20	20	20	20	\$0
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$0
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Cost Per Ft ³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$0
Disposal Fee Per Yr	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$0

	Ingraham		Christensen		Christensen		Christensen		Christensen		Total Christensen & Ingraham
	Mine Unit #1 Thru #9	Mine Unit #2 Thru #4	Mine Unit #5	Mine Unit #6	Mine Unit #7	Mine Unit #8	Mine Unit #9	Mine Unit #10	Mine Unit #11	Mine Unit #12	
IV. WELLFIELD EQUIPMENT REMOVAL & DISPOSAL											
Quantity Per Truck Load (Yds ³)											
Disposal Cost (\$)											
Total Cost - Licensed Site											
Total Cost - Surface Trunkline Removal & Disposal											
IV Buried Trunkline											
A. Removal											
Total Quantity (Ft)											
Cost of Removal (\$/Ft)											
Cost of Removal (\$)											
Average OD (Inches)											
Chipped Volume Reduction (Ft ³ /Ft)											
Chipped Volume (Ft ³)											
Quantity Per Truck Load (Ft ³)											
Number of Truck Loads											
B. Survey & Decontamination											
Percent Requiring Decontamination											
Loads for Decontamination											
Cost for Decontamination (\$/Load)											
Cost for Decontamination (\$)											
C. Transport & Disposal											
1.) Landfill											
a. Transportation											
Percent To Be Shipped											
Loads To Be Shipped											
Transportation Cost per Load											
Transportation Cost (\$)											
b. Disposal											
Disposal Fee Per Yd ³											
Yds ³ Per Load											
Disposal Cost (\$)											
Total Cost - Landfill											
2.) Licensed Site											
a. Transportation											
Percent To Be Shipped											
Loads To Be Shipped											
Transportation Cost per Load											
Transportation Cost (\$)											
b. Disposal											
Disposal Cost Per Ft ²											
Quantity Per Truck Load (Yds ²)											
Disposal Cost (\$)											
Total Cost - Licensed Site											
Total Cost - Transport & Disposal											
Total Cost - Buried Trunkline Removal & Disposal											
V. Manholes											
A. Removal											
Total Quantity											
Cost of Removal (\$ Each)											
Cost of Removal (\$)											
Quantity Per Truck Load											
Number of Truck Loads											
B. Survey & Decontamination											
Percent Requiring Decontamination											
Loads for Decontamination											
Cost for Decontamination (\$/Load)											
Cost for Decontamination (\$)											
C. Transport & Disposal											
1.) Landfill											
a. Transportation											
Percent To Be Shipped											
Loads To Be Shipped											
Transportation Cost per Load											

	Ingaray Mine Units #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Ingaray
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL							
b. Disposal							
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Disposal Fee Per Yr ⁶ (\$)	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50
Yds Per Load	20	20	20	20	20	20	20
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Leads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Cost Per Ft ³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00
Disposal Fee Per Yr ⁶	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00
Quantity Per Truck Load (Yds ³)	20	20	20	20	20	20	20
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Transport & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost Manhole Removal & Disposal	\$0	\$878	\$548	\$1,207	\$548	\$1,428	\$4,809
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	\$28,832	\$235,023	\$174,845	\$528,396	\$304,784	\$963,241	\$1,430,924

TOPSOIL REPLACEMENT & REVEGETATION											
I Process Plant and Office Building											
A. Topsoil Handling & Grading											
	Idigway Mine Unit #1 Thru #9	Christensen Mine Unit #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #9	Total Christensen & Idigway			
Average Affected Thickness (ins)	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Topsoil Volume (Yds ³)	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unit Cost - Haul/Place (\$/Yd ³)	8087	4033	0	0	0	0	0	0	0	0	0
Topsoil Handling Cost (\$)	\$9,704	\$48,396	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unit Cost - Grading (\$/Ac)	\$74.52	\$186	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52
Grading Cost (\$)	\$373	\$33,816	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sub Total - Topsoil	\$7,653	\$52,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
Sub Total - Survey & Analysis	\$2,600	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Revegetation											
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00
Mulching & Chipping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03
Sub Total - Revegetation	\$3,015	\$1,508	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sub Total - Process Plant and Office Bldg.	\$13,248	\$6,624	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II Ponds											
A. Topsoil Handling & Grading											
Average Affected Thickness (ins)	20.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Topsoil Volume (Yds ³)	32267	19860	0	0	0	0	0	0	0	0	0
Unit Cost - Haul/Place (\$/Yd ³)	\$9,900	\$9,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Topsoil Handling Cost (\$)	\$29,040	\$17,424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unit Cost - Grading (\$/Ac)	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52
Grading Cost (\$)	\$1,490	\$894	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sub Total - Topsoil	\$30,530	\$18,318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
Sub Total - Survey & Analysis	\$10,400	\$6,240	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Revegetation											
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00
Mulching & Chipping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03
Sub Total - Revegetation	\$12,061	\$7,236	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sub Total - Ponds	\$52,991	\$31,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III Wellfields											
A. Topsoil Handling & Grading											
Average Affected Thickness (ins)	40.0	35.0	30.0	30.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
Topsoil Volume (Yds ³)	18822	26881	14117	14117	23528	23528	23528	23528	23528	23528	23528
Unit Cost - Haul/Place (\$/Yd ³)	\$16,940	\$23,293	\$12,705	\$12,705	\$21,175	\$21,175	\$21,175	\$21,175	\$21,175	\$21,175	\$21,175
Topsoil Handling Cost (\$)	\$316,940	\$623,293	\$179,100	\$179,100	\$497,800	\$497,800	\$497,800	\$497,800	\$497,800	\$497,800	\$497,800
Unit Cost - Grading (\$/Ac)	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52
Grading Cost (\$)	\$2,881	\$4,099	\$2,226	\$2,226	\$3,726	\$3,726	\$3,726	\$3,726	\$3,726	\$3,726	\$3,726
Sub Total - Topsoil	\$19,921	\$27,391	\$14,941	\$14,941	\$24,901	\$24,901	\$24,901	\$24,901	\$24,901	\$24,901	\$24,901
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
Sub Total - Survey & Analysis	\$20,800	\$28,600	\$15,600	\$15,600	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
C. Spill Cleanup											
Average Affected Thickness (ft)	0.036	1.568	0	0	0	0	0	0	0	0	0
Affected Volume (ft ³)	0.25	382	0	0	0	0	0	0	0	0	0
Quantity per Truckload (ft ³)	0.7	540	0	0	0	0	0	0	0	0	0
Quantity to be Shipped (Loads)	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost per Load	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524	\$1,524
Handling Cost (\$240/load)	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174
Disposal Fee per Cubic Foot (\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70
Sub Total - Spill Cleanup	\$1,452	\$1,452	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sub Total - Wellfields	\$94,786	\$59,786	\$31,795	\$31,795	\$52,991	\$52,991	\$52,991	\$52,991	\$52,991	\$52,991	\$52,991

TOPSOIL REPLACEMENT & REVEGETATION		Ingrary Mine Unit# #1 Thru #4	Christonsen Mine Units #2 Thru #4	Christonsen Mine Unit #5	Christonsen Mine Unit #6	Christonsen Mine Unit #7	Christonsen Mine Unit #8	Total Christonsen & Ingrary
D. Revegetation		\$0	\$3,151	\$0	\$0	\$0	\$0	\$3,151
Fertilizer (\$/Ac)		\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49
Seeding Prep & Seeding (\$/Ac)		\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00
Mulching & Chipping (\$/Ac)		\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54
Sub Total Cost/Acre		\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03
Sub Total - Revegetation		\$24,121	\$33,157	\$18,091	\$24,121	\$21,105	\$24,121	\$150,758
Sub Total - Wetfields (\$)		\$54,842	\$92,308	\$48,632	\$81,053	\$55,737	\$84,842	\$408,413
IV. Roads								
A. Topsoil Handling & Grading								
Affected Area (Acres)		25.0	20.0	15.0	21.0	12.0	15.0	
Average Affected Thickness (In)		12	12	12	12	12	12	
Topsoil Volume (Yds ³)		40333	32267	24200	33860	19960	24200	
Unit Cost - Haul/Place (\$/Yd ³)		\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	
Topsoil Handling Cost (\$)		\$36,300	\$29,040	\$21,780	\$30,462	\$17,924	\$21,780	
Unit Cost - Grading (\$/Ac)		\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	
Grading Cost (\$)		\$1,863	\$1,490	\$1,118	\$1,565	\$894	\$1,118	
Sub Total - Topsoil		\$38,163	\$30,530	\$22,898	\$32,027	\$18,318	\$22,898	
B. Radiation Survey & Soil Analysis								
Unit Cost (\$/Ac)		\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis		\$13,000	\$10,400	\$7,800	\$10,920	\$6,240	\$7,800	
C. Revegetation								
Fertilizer (\$/Ac)		\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)		\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Chipping (\$/Ac)		\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre		\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation		\$15,076	\$12,061	\$9,045	\$12,664	\$7,236	\$9,045	
Sub Total - Roads (\$)		\$65,229	\$52,991	\$39,743	\$55,641	\$31,795	\$59,743	
V. Other								
A. Topsoil Handling & Grading								
Affected Area (Acres)		41.0	19.0	5.0	5.0	5.0	5.0	
Average Affected Thickness (In)		0.0	0.0	0	0	0	0	
Topsoil Volume (Yds ³)		0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd ³)		\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	
Topsoil Handling Cost (\$)		\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)		\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	\$74.52	
Grading Cost (\$)		\$3,055	\$1,416	\$373	\$373	\$373	\$373	
Sub Total - Topsoil		\$3,055	\$1,416	\$373	\$373	\$373	\$373	
B. Radiation Survey & Soil Analysis								
Unit Cost (\$/Ac)		\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis		\$21,320	\$9,880	\$2,600	\$2,600	\$2,600	\$2,600	
C. Revegetation								
Fertilizer (\$/Ac)		\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)		\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Chipping (\$/Ac)		\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre		\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation		\$24,724	\$11,458	\$3,015	\$3,015	\$3,015	\$3,015	
Sub Total - Other		\$49,100	\$22,753	\$5,988	\$5,988	\$5,988	\$5,988	
VI. Remedial Action								
A. Topsoil Handling & Grading								
Affected Area (Acres)		65.5	54.3	25.0	38.0	26.0	30.0	
Average Affected Thickness (In)		0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds ³)		0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd ³)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Topsoil Handling Cost (\$)		\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Grading Cost (\$)		\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil		\$0	\$0	\$0	\$0	\$0	\$0	
B. Radiation Survey & Soil Analysis								
Unit Cost (\$/Ac)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis		\$0	\$0	\$0	\$0	\$0	\$0	
C. Revegetation								
Fertilizer (\$/Ac)		\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)		\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Chipping (\$/Ac)		\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre		\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	

Uranium One USA, Inc.
 2011-2012 Restoration and Reclamation Costs
 Wyoming Operations
 WORKSHEET 7

TOPSOIL REPLACEMENT & REVEGETATION	Jingary		Christensen Mine Units #2 Thru #4		Christensen Mine Unit #5		Christensen Mine Unit #6		Christensen Mine Unit #7		Christensen Mine Unit #8		Total Christensen & Jingary
	Mine Unit(s) #1 Thru #9												
Sub Total - Revegetation	\$39,498		\$32,714	\$15,076	\$22,915	\$15,679	\$18,091	\$18,091	\$18,091	\$18,091	\$18,091	\$143,973	
Sub Total - Remedial Action	\$39,498		\$32,714	\$15,076	\$22,915	\$15,679	\$18,091	\$18,091	\$18,091	\$18,091	\$18,091	\$143,973	
TOTAL COST - TOPSOIL & REVEGETATION	\$285,918		\$239,186	\$109,438	\$165,596	\$110,198	\$128,664	\$128,664	\$128,664	\$128,664	\$128,664	\$1,038,999	

MISCELLANEOUS RECLAMATION									
	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray		
I Fence Removal & Disposal									
Quantity (Feet)	15240	35260	20000	9000	18000	30000			
Cost of Removal/Disposal (\$/Ft)	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31			
Cost of Removal/Disposal (\$)	\$4,724	\$10,931	\$6,200	\$2,790	\$5,580	\$9,300			\$39,525
II Powerline Removal & Disposal									
Quantity (Feet)	9450	10565	18000	18000	5500	25000			
Cost of Removal/Disposal (\$/Ft)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0			\$0
III Powerpole Removal & Disposal									
Quantity	25	30	60	60	19	84			
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0			\$0
IV Transformer Removal & Disposal									
Quantity	0	1	0	0	18	30			
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0			\$0
V Booster Pump Assembly Removal & Disposal									
Quantity	0	6	5	5	12	18			
Cost of Removal/Disposal (\$/Each)	\$248	\$248	\$248	\$248	\$248	\$248			
Cost of Removal/Disposal (\$)	\$0	\$1,488	\$1,240	\$1,240	\$2,976	\$4,464			\$11,408
VI Culvert Removal & Disposal									
Quantity (Feet)	150	1200	1000	1000	500	0			
Cost of Removal/Disposal (\$/Ft)	\$6.10	\$6.10	\$6.10	\$6.10	\$6.10	\$6.10			
Cost of Removal/Disposal (\$)	\$915	\$7,321	\$6,101	\$6,101	\$3,051	\$0			\$23,489
VII Guardrail Removal									
Quantity (Feet)	200	3000	0	0	0	0			
Cost of Removal/Disposal (\$/Ft)	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44			
Cost of Removal/Disposal (\$)	\$1,288	\$19,320	\$0	\$0	\$0	\$0			\$20,608
VIII Low Water Stream Crossing									
Quantity	0	1	1	0	0	0			
Cost of Removal/Disposal (\$/Each)	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500			
Cost of Removal/Disposal (\$)	\$0	\$4,500	\$4,500	\$0	\$0	\$0			\$9,000
IX Utilities Cost									
Quantity (Mos)	0	8	4	4	4	0			
Cost Per Month (\$/Month)	\$65	\$65	\$65	\$65	\$65	\$65			
Total Cost (\$)	\$0	\$520	\$260	\$260	\$260	\$0			\$1,300
TOTAL MISCELLANEOUS COST	\$6,928	\$44,080	\$18,301	\$10,391	\$11,867	\$13,764			\$105,330