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**From:** Jon Winter (USA - Casper) [Jon.Winter@uranium1.com]  
**Sent:** Monday, November 08, 2010 3:23 PM  
**To:** Linton, Ron  
**Cc:** Donna Wichers (USA - Casper); Mike Griffin (USA - Casper); Larry Arbogast (USA - Christensen Ranch); Mooney, Glenn  
**Subject:** Surety modifications - Willow Creek Project  
**Attachments:** 2010 Bond Estimate Update 11-8-10.pdf  
  
**Importance:** High

Ron, attached is a pdf of the Willow Creek surety estimate and description of changes made. The overall change from the August 18, 2010 submittal was minor. Most of the refurbishment activities were accounted for in the August 18, submittal. All cells highlighted in yellow represent changes made since the August submittal. All cells highlighted in gray represent changes made in the August 18, 2010 surety estimate. The attached description is presented in the format (worksheet by worksheet) that accompanied the surety revision submitted in August. This revised estimate depicts an increase to the proposed surety estimate submitted in August by approximately \$11,000.

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X-Ironport-ID: mail2

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X-fn: 2010 Bond Estimate Update 11-8-10.pdf

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13:23:26 -0700

From: "Jon Winter (USA - Casper)" <Jon.Winter@uranium1.com>

To: "Linton, Ron" <Ron.Linton@nrc.gov>

CC: "Donna Wichers (USA - Casper)" <Donna.Wichers@uranium1.com>, "Mike  
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Date: Mon, 8 Nov 2010 13:23:24 -0700

Subject: Surety modifications - Willow Creek Project

Thread-Topic: Surety modifications - Willow Creek Project

Thread-Index: Act/gss21ScrZdkITOUljT758pdAkQ==

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## RECLAMATION PERFORMANCE BOND ESTIMATE:

An updated reclamation/restoration bond estimate for the period of August 2010 through July 2011 was provided in Appendix 3 of the 2010 WDEQ Annual Report for Permit to Mine No. 478. Following is a further explanation of several changes made to the August 18, 2010 "Worksheet 1" and recent changes/corrections reflected in "Worksheet 4" that have occurred since the August update.

### Worksheet 2:

During the reporting period several tanks were added to the Irigaray Expansion Building; these include the addition of a pup tank circuit to the Irigaray South Elution Circuit, and a sulfuric acid bulk storage tank. These additions were accounted for in the August 18, 2010 update by the conservative addition of 3 cubic yards of materials to the Expansion Building, raising the total from 180 to 183 Yds<sup>3</sup>. See calculations below:

Irigaray New Tanks - Disposal Calculations Expansion Building			
South Elution Pup Tanks Qty: 4		Sulfuric Acid Tank Qty: 1	
diameter	6 ft	diameter	10 ft
sidewall	12 ft	sidewall	17.5 ft
thickness	0.0313 ft	thickness	0.021 ft
cylinder	226.195 ft <sup>2</sup>	cylinder	549.779 ft <sup>2</sup>
top & bottom	65.031 ft <sup>2</sup>	top & bottom	180.642 ft <sup>2</sup>
Individual Total	0.337 yds <sup>3</sup>	Individual Total	1.014 yds <sup>3</sup>
Quantity Total	1.348 yds <sup>3</sup>		
Grand Total: 2.4 yds <sup>3</sup>			

November 8, 2010

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Revisions to August 18 Annual Surety Estimate

Uranium One USA., Inc – Willow Creek Project (Irigaray – Christensen Ranch)

#### **Worksheet 4:**

During the reporting period Irigaray Ponds D and RA were relined ( a 30 mil PVC liner overlaid with 60 mil High-Density Polyethylene (HDPE) and a 90 mil geotextile fabric in between). This revision was accounted for in the August 18, 2010 surety update. However, an incorrect thickness of 10 mil was applied for the geotextile fabric, resulting in a total liner thickness of 100 mil (60 HDPE+30 PVC+10 geotextile fabric). The updated worksheet reflects the accurate geotextile fabric thickness of 90 mil, resulting in a total liner thickness of 180 mil for Irigaray Ponds D and RA. Also, since the August 18, 2010 update, it has been decided to overlay the existing 30 mil Hypalon liner in Christensen Ranch Pond-1 with a 60 mil HDPE liner and an 8 ounce (90 mil) geotextile fabric placed between the existing and new liner. This will increase the liner thickness for Pond-1 from 30 mil to 180 mil. Additionally, a mistake was identified in the formula that calculated the liner thickness from "mil" to inches. This has been corrected and is reflected in the thickness in inches for all pond liners.

These changes increase the bond estimate presented in "Worksheet 4" from \$73,336 to \$81,880; for an overall difference of \$8,544.

#### **Summary of Changes**

These changes increase the estimate presented in the August 18, 2010 submittal from \$12,530,009 to \$12,541,082 for a difference of \$11,073 for the WDEQ value; and the NRC bond estimate from \$12,917,349 to \$12,928,432 for a difference of \$11,083. All modifications to the estimate are specific to Worksheet 4.

Uranium One USA, Inc.

SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, August 2009 - November 2010

WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341

TABLE 1

			WDEQ Estimate	NRC Estimate
<b>I GROUNDWATER RESTORATION - Worksheet 1:</b>			<b>\$4,461,911</b>	<b>\$4,751,711</b>
<b>II DECOMMISSIONING AND SURFACE RECLAMATION:</b>				
A.	Process Plant(s) Equipment Removal and Disposal Worksheet 2		\$185,429	\$185,429
B.	Plant Building(s) Demolition and Disposal Worksheet 3		\$750,473	\$750,473
C.	Process Pond Sludge and Liner Handling Worksheet 4		\$1,323,848	\$1,323,848
D.	Well Abandonment Worksheet 5		\$632,357	\$632,357
E.	Wellfield Equipment Removal and Disposal Worksheet 6		\$1,086,537	\$1,086,537
F.	Topsoil Replacement and Revegetation Worksheet 7		\$1,112,245	\$1,112,245
G.	Miscellaneous Reclamation Activities Worksheet 8		\$124,161	\$124,161
Sub Total - Decommissioning and Surface Reclamation			<b>\$5,215,049</b>	<b>\$5,215,049</b>
<b>TOTAL RESTORATION AND RECLAMATION</b>			<b>\$9,676,961</b>	<b>\$9,966,760</b>
Adjustment for Inflation = 7.4% (Sep. 2006 CPI All Urban Consumers, 202.9, to June 2010, 217.965)			\$718,499	\$740,016
<b>SUBTOTAL</b>			<b>\$10,395,459</b>	<b>\$10,706,776</b>
Miscellaneous Costs Associated with Third Party Contractors				
		WDEQ	NRC	
Project Design	0.5%	0%		
Contractor Profit & Mobilization	8%	3%		
Pre-construction Investigation	1%			
Project Management	3%	2%		
On-site monitoring	0.5%			
Site Security & Liability Assurance	1%	0.0%		
Longterm Administration	2%			
Subtotal miscellaneous additions to bond	16.0%	5.0%	\$1,663,274	\$535,338.79
<b>SUBTOTAL</b>			<b>\$12,058,733</b>	<b>\$11,242,115</b>
		WDEQ	NRC	
Contingency	4%	15%	\$482,349	\$1,686,317
<b>GRAND TOTAL RESTORATION AND RECLAMATION</b>			<b>\$12,541,082</b>	<b>\$12,928,432</b>

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 1

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	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
Technical Assumptions:									
Wellfield Area (Ft²)	522720	784080	890000	798944	510088	1210968	2021243	1391963	2594100
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	31.96	59.6
Affected Ore Zone Area (Ft²)	522720	784080	890000	798944	550193	1346004	2058344	1391963	2594100
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0
Affected Volume:									
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 (Ft³)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.8	36079680.96	74710080
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Gallons Per Cubic Foot	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Gallons Per Pore Volume	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292	70167763.53	145296163.6
Number of Wells in Unit(s)									
Production Wells	150	274	91	176	81	134	178	137	125
Injection Wells	310	330	195	267	130	188	202	160	250
Monitor Wells	150	165	50	47	33	72	64	66	100
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47	38	50
Average Well Spacing (Ft)	35	35	85	70	85	85	100	70	75
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	380

I GROUNDWATER SWEEP

A. PLANT & OFFICE									
Operating Assumptions:									
Flowrate (gpm)			200	200	200	200	200	200	200
PVs Required			1	1	1	1	1	1	0
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292	70167763.53	0
Total KGals for Treatment			27417	22375	19568	75057	125664	70168	0
Cost Assumptions:									
Power									
Avg Connected Hp			40.00	40.00	40.00	40.00	40.00	40.00	40.00
Kwh's/Hp			0.83	0.83	0.83	0.83	0.83	0.83	0.83
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365
Gallons Per Minute			200	200	200	200	100	100	100
Gallons Per Hour			12000	12000	12000	12000	6000	6000	6000
Cost Per Hour			1.21	1.21	1.21	1.21	1.21	1.21	1.21
Cost Per Gallon			0.00010	0.00010	0.00010	0.00010	0.00020	0.00020	0.00020
Cost Per KGal (\$)			\$0.101	\$0.101	\$0.101	\$0.101	\$0.202	\$0.202	\$0.202
Chemicals									
Antiscalant (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099
Repair & Maintenance (\$/KGals)			\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379
Analysis (\$/KGals)			\$0.131	\$0.127	\$0.115	\$0.050	\$0.056	\$0.000	\$0.000
Total Cost Per KGal			\$0.464	\$0.460	\$0.448	\$0.383	\$0.490	\$0.434	\$0.434
Total Treatment Cost			\$12,718	\$10,291	\$8,758	\$28,713	\$61,534	\$30,422	\$0
Utilities									
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65	\$65	\$65
Telephone (\$/Month)			\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment									
Minutes For Treatment			137085	111873	97842	375285	628321	0	0
Hours For Treatment			2285	1865	1631	6255	10472	0	0
Days For Treatment			95	78	68	261	436	0	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			3.1	2.6	2.2	8.6	14.3	0.0	0.0
Utilities Cost (\$)			\$1,768	\$1,443	\$1,282	\$4,841	\$8,105	\$0	\$0
TOTAL PLANT & OFFICE COST	\$0	\$0	\$14,487	\$11,734	\$10,020	\$33,554	\$69,639	\$30,422	\$0

I GROUNDWATER SWEEP (Continued)

B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)			20	20	20	20	20	20	20
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg Connected Hp			25	25	25	25	25	25	25
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

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 1

	Ingaray Mine Unit(s) #1 Thru #5	Ingaray Mine Unit(s) #6 Thru #9	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
GROUNDWATER RESTORATION									
Gallons Per Minute			200	200	200	200	200	200	200
Gallons Per Hour			12000	12000	12000	12000	12000	12000	12000
Cost Per Hour (\$)			\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76
Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)			0.063	0.063	0.063	0.063	0.063	0.063	0.063
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289
Total Cost Per KGal			\$0.353	\$0.353	\$0.353	\$0.353	\$0.353	\$0.353	\$0.353
TOTAL WELLFIELD COST	\$0	\$0	\$9,665	\$7,887	\$6,898	\$26,459	\$44,298	\$24,735	\$0
TOTAL GROUND WATER SWEEP COST	\$0	\$0	\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$55,158	\$0

II REVERSE OSMOSIS									
A. PLANT & OFFICE									
Operating Assumptions:									
Flowrate (gpm)			500	500	500	500	500	500	500
PV's Required			5.0	5.0	5.0	5.0	5.0	5.0	5.0
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321461	701677635.3	1452961636
Total KGals for Treatment			137085	111873	97842	375285	628321	701678	1452962
Feed to RO (gpm)			500	500	500	500	500	500	500
Permeate Flow (gpm)			375	375	375	375	375	375	375
Brine Flow (gpm)			125	125	125	125	125	125	125
Average RO Recovery			75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
Cost Assumptions:									
Power									
Avg Connected Hp			560.00	560.00	560.00	560.00	560.00	560.00	560.00
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			500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)			\$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
Cost Per KGal (\$)			\$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
Antiscalant (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099
Repair & Maintenance (\$/KGals)			\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038
Sampling & Analysis (\$/KGals)			\$0.090	\$0.122	\$0.092	\$0.039	\$0.032	\$0.044	\$0.023
Total Cost Per KGal (\$)			\$0.905	\$0.937	\$0.907	\$0.854	\$0.847	\$0.860	\$0.838
Total Pumping Cost (\$)	\$0	\$0	\$124,089	\$104,788	\$88,752	\$320,397	\$531,949	\$603,142	\$1,217,319
Utilities									
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65	\$65	\$65
Propane (\$/Month)			\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment									
Minutes For Treatment			274170	223745	195684	750570	1256643	1403355	2905923
Hours For Treatment			4570	3729	3261	12510	20944	23389	48432
Days For Treatment			190	155	136	521	873	975	2018
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			6.3	5.1	4.5	17.1	28.7	32.0	66.3
Utilities Cost (\$)	\$0	\$0	\$3,560	\$2,882	\$2,543	\$9,662	\$16,216	\$18,080	\$37,460
TOTAL PLANT & OFFICE COST	\$0	\$0	\$127,648	\$107,670	\$91,294	\$330,059	\$548,165	\$621,222	\$1,254,779

II REVERSE OSMOSIS (Continued)									
B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)			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
Avg # of Pumps Required			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
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			500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)			\$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
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

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 1

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	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
GROUNDWATER RESTORATION									
Total Cost Per KGal			\$0.365	\$0.365	\$0.365	\$0.365	\$0.365	\$0.365	\$0.365
TOTAL WELLFIELD COST	\$0	\$0	\$50,000	\$40,804	\$35,687	\$136,881	\$229,172	\$255,928	\$0
Circulate 1 PV of Hydrogen Sulfide gas reductant \$0.863 per Kgal			\$23,661	\$19,309	\$16,888	\$64,774	\$108,448	\$60,555	\$0
TOTAL REVERSE OSMOSIS COST	\$0	\$0	\$201,309	\$167,783	\$143,869	\$531,714	\$885,785	\$937,705	\$0

<b>III WASTE DISPOSAL WELL</b>									
Operating Assumptions:									
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612
Avg. Monthly Evap. Capacity (Gals)			159,801	159,801	159,801	159,801	159,801	159,801	159,801
Total Disposal Requirement									
RO Brine Total Gallons			34,271,266	27,968,153	24,460,551	93,821,250	157,080,365	175,419,409	363,240,409
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080	175,419	363,240
Brine Concentration Factor			60%	60%	60%	60%	60%	60%	60%
Total Concentrated Brine (Gals)			20,562,759	16,780,892	14,676,330	56,292,750	94,248,219	105,251,645	217,944,245
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	32.0	66.3
Average Monthly Req'mt (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,263,910	3,289,114	3,287,244
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,129,313	3,127,443
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930	100,138,013	207,349,439
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662	100,138	207,349
Cost Assumptions:									
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)									
RO Antiscalant (\$/KGals)			\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190
WDW Antiscalant (\$/KGals)			\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237
Sulfuric Acid (\$/KGals)			\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534
Corrosion Inhibitor			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Algicide			\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111
Repair & Maint (\$/KGals)			\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077
Total Cost Per KGal			\$2.092	\$2.092	\$2.092	\$2.092	\$2.092	\$2.092	\$2.092
TOTAL WASTE DISPOSAL WELL COST	\$0	\$0	\$40,902	\$33,393	\$29,192	\$112,022	\$187,529	\$209,440	\$0

<b>IV STABILIZATION MONITORING</b>									
Operating Assumptions:									
Time of Stabilization (mos)			9	9	9	9	9	9	9
Frequency of Analysis (mos)			3	3	3	3	3	3	3
Total Sets of Analysis									
Cost Assumptions:									
Generator Rental per sample set			\$280	\$280	\$280	\$280	\$280	\$280	\$280
Analytical costs per set			\$3,600	\$2,850	\$2,250	\$3,750	\$7,050	\$5,700	\$7,500
Total Sampling & Analysis Cost (\$)			\$15,520	\$12,520	\$10,120	\$16,120	\$29,320	\$23,920	\$31,120
Utilities (Power + Telephone per month)			\$565	\$565	\$565	\$565	\$565	\$565	\$565
Total Utilities Cost (\$)			\$5,085	\$5,085	\$5,085	\$5,085	\$5,085	\$5,085	\$5,085
TOTAL STABILIZATION COST	\$0	\$0	\$20,605	\$17,605	\$15,205	\$21,205	\$34,405	\$29,005	\$36,705

<b>V LABOR (Irigaray and Christensen Combined)</b>			
Cost Assumptions	Cost/Hour	Hours/Year	Cost
Crew:			
1 Supervisor	\$25.00	2080	\$52,000
4 Operators	\$20.00	2080	\$166,400
2 Maintenance	\$20.00	2080	\$83,200
2 Vehicles	\$12.00	2080	\$49,920
Cost per Year			\$351,520
Time Required - Years		2.0	
TOTAL RESTORATION LABOR COST			\$703,040



Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 1

GROUNDWATER RESTORATION

Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	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
Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Total Christensen & Irigaray						

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 18-3		\$66,250
IV 500 GPM Reverse Osmosis Unit		\$0
Total	\$0	\$140,200

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	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	\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$55,158	\$0	
II REVERSE OSMOSIS	\$0	\$0	\$201,309	\$167,783	\$143,869	\$531,714	\$885,785	\$937,705	\$0	
III WASTE DISPOSAL WELL	\$0	\$0	\$40,902	\$33,393	\$29,192	\$112,022	\$187,529	\$209,440	\$0	
IV STABILIZATION	\$0	\$0	\$20,605	\$17,605	\$15,205	\$21,205	\$34,405	\$29,005	\$0	
SUB TOTAL	\$0	\$0	\$286,968	\$238,403	\$205,184	\$724,953	\$1,221,657	\$1,231,307	\$0	\$3,908,471
V LABOR										\$703,040
VI CAPITAL										\$140,200
TOTAL GROUNDWATER RESTORATION COST										\$4,751,711
Credit for Completion of Groundwater Sweep (WDEQ)			\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$55,158		\$289,799
Credit for Completion of Reverse Osmosis (WDEQ)										\$0
Credit Completion of Stabilization Monitoring (WDEQ)										\$0
Credit Subtotal			\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$55,158	\$0	\$289,799
GRAND TOTAL WDEQ	\$0	\$0	\$262,816	\$218,781	\$188,265	\$664,940	\$1,107,719	\$1,176,150	\$0	\$4,461,911
GRAND TOTAL NRC (no cred)	\$0	\$0	\$266,968	\$238,403	\$205,184	\$724,953	\$1,221,657	\$1,231,307	\$0	\$4,751,711

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 2

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray							Christensen				
	Maint Area & Laboratory	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 (Yds³)	40	0	183	110	40	0		91	197	42	55	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	0.0	9.2	5.5	2.0	0.0		4.55	9.9	2.1	2.8	
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	\$3,980	\$0	\$870	\$0	\$5,024	\$1,979	\$0	\$914	\$1,196	\$4,089
II Dismantle and Loading Cost												
Cost Per Truck Load (\$)	\$650	\$650	\$650	\$650	\$650	\$650		\$650	\$650	\$650	\$650	
Total Cost	\$1,300	\$0	\$5,948	\$3,575	\$1,300	\$0	\$12,123	\$2,958	\$6,403	\$1,365	\$1,788	\$12,513
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	\$1,193	\$0	\$391	\$0	\$1,845	\$593	\$0	\$274	\$0	\$867
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	\$160	\$160	\$160	\$160	\$160	\$160		\$160	\$160	\$160	\$160	
Transportation Cost	\$256	\$0	\$1,171	\$0	\$160	\$0		\$582	\$0	\$269	\$352	
Disposal Fee Per Cubic Yard	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00		\$12.00	\$12.00	\$12.00	\$12.00	
Disposal Cost (\$)	\$384	\$0	\$1,757	\$0	\$240	\$0		\$874	\$0	\$403	\$528	
Total Cost	\$640	\$0	\$2,928	\$0	\$400	\$0		\$1,456	\$0	\$672	\$880	
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	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost	\$400	\$0	\$1,830	\$5,500	\$1,000	\$0		\$910	\$9,850	\$420	\$550	
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 (Yds³)	20.0	20.0	20.0	20.0	20.0	20.0		20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540		540	540	540	540	
Disposal Cost	\$2,376	\$0	\$10,870	\$32,670	\$5,940	\$0		\$5,405	\$58,509	\$2,495	\$3,267	
Total Cost Licensed Site	\$2,776	\$0	\$12,700	\$38,170	\$6,940	\$0		\$6,315	\$68,359	\$2,915	\$3,817	
Total Cost Transportation & Disposal	\$3,416	\$0	\$15,628	\$38,170	\$7,340	\$0	\$64,554	\$7,771	\$68,359	\$3,587	\$4,697	\$84,414
TOTAL COST	\$5,151	\$0	\$26,749	\$41,745	\$9,901	\$0	\$83,546	\$13,301	\$74,762	\$6,139	\$7,681	\$101,883
TOTAL COST - IRIGARAY AND CHRISTENSEN												\$185,429

Irigaray							Christensen						
Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total

**BUILDING DEMOLITION AND DISPOSAL**

Structural Character	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Steel/Masonry	1 Story Steel Frame		2 Story Steel Frame	1 Story Pre Fab (22)	1 Story Pre Fab (4)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	
Demolition Volume (Ft³)	179400	108720	430400	386400	126000	69640		192000	95040	46720	72000	64800	11000	
Cost of Demolition Per Ft³	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650		\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	
Demolition Cost (\$)	\$29,601	\$17,939	\$71,016	\$63,756	\$20,790	\$11,491	\$214,592	\$31,680	\$15,682	\$7,709	\$11,880	\$10,692	\$1,815	\$79,457
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	
Cost For Gutting (\$)	\$4,440	\$1,794	\$21,305	\$6,376	\$4,158	\$1,149	\$39,221	\$6,336	\$0	\$0	\$2,376	\$1,069	\$182	\$9,963
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	
Weight per Truckload	40000	40000	40000	40000	40000	40000		40000	40000	40000	40000	40000	40000	
Number of Truckloads	4.0	2.4	9.5	8.5	2.8	1.5		4.2	1.7	0.7	1.6	1.0	0.2	
Transportation Cost per Truckload	\$160	\$160	\$160	\$160	\$160	\$160		\$160	\$160	\$160	\$160	\$160	\$160	
Transportation Cost (\$)	\$635	\$385	\$1,524	\$1,368	\$446	\$247	\$4,604	\$680	\$267	\$112	\$255	\$155	\$39	\$1,507
Disposal Cost per Truckload (25 CY)	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00		\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	
Disposal Cost (\$)	\$1,191	\$722	\$2,857	\$2,565	\$836	\$462	\$8,632	\$1,274	\$500	\$210	\$478	\$291	\$73	\$2,826
TOTAL COST	\$35,867	\$20,839	\$96,701	\$74,064	\$26,230	\$13,348	\$267,050	\$39,970	\$16,448	\$8,031	\$14,989	\$12,207	\$2,108	\$93,754
TOTAL COST IRIGARAY AND CHRISTENSEN														\$360,804

**CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL**

Area (Ft²)	8020	7100	17600	18400	5600	3600		9600	0	1440	3600	0	1000	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	
Volume (Ft³)	4010	3550	8800	9200	5600	1800		4800	0	720	1800	0	500	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%	75.0%	75.0%	40.0%	75.0%		75.0%	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	\$0.134	
Decontamination Cost	\$0	\$0	\$1,769	\$1,849	\$300	\$362	\$4,280	\$965	\$0	\$193	\$482	\$0	\$0	\$1,640
Demolition (\$/Ft²)	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05		\$3.05	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05	
Demolition Cost	\$24,461	\$21,655	\$53,680	\$56,120	\$17,080	\$10,980	\$183,976	\$29,280	\$0	\$4,392	\$10,980	\$0	\$3,050	\$47,702
Transportation & Disposal														
A. Onsite Disposal														
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	
Disposal Cost per Cubic Foot	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230		\$0.230	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230	
Disposal Cost (\$)	\$922	\$817	\$1,822	\$1,904	\$515	\$373	\$6,353	\$994	\$0	\$166	\$414	\$0	\$115	\$1,688
B. Licensed Site														
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	0%	
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$0	\$0	\$1,630	\$1,704	\$6,222	\$333	\$9,889	\$889	\$0	\$0	\$0	\$0	\$0	\$889
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	\$3.70	
Quantity Per Truck Load (Yds³)	20	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	540	
Disposal Cost (\$)	\$0	\$0	\$3,256	\$3,404	\$12,432	\$666	\$19,758	\$1,776	\$0	\$0	\$0	\$0	\$0	\$1,776
TOTAL COST	\$25,383	\$22,472	\$62,156	\$64,981	\$36,550	\$12,714	\$224,255	\$33,903	\$0	\$4,751	\$11,876	\$0	\$3,165	\$53,695
TOTAL COST IRIGARAY AND CHRISTENSEN														\$277,951

**SOIL REMOVAL & DISPOSAL**

Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.

Removal with Loader (\$75/hr)	\$75	\$0	\$0	\$1,222	\$1,278	\$389	\$250	\$3,139	\$667	\$0	\$0	\$0	\$0	\$0	\$667
Quantity to be Shipped (Ft³)	0	0	4400	4600	1400	900		2400	0	0	0	0	0	0	
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$0	\$0	\$8,148	\$8,519	\$2,593	\$1,667	\$20,926	\$4,444	\$0	\$0	\$0	\$0	\$0	\$0	\$4,444
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	\$3.70	\$3.70	
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$16,280	\$17,020	\$5,180	\$3,330	\$41,810	\$8,880	\$0	\$0	\$0	\$0	\$0	\$0	\$8,880
Removal, NPDES Pts.															
Quantity to be Shipped (Ft³)			559						5,030						
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 3

	Irigaray							Christensen						
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total
Transportation Cost (\$)	\$0	\$0	\$1,035	\$0	\$0	\$0	\$1,035	\$9,315	\$0	\$0	\$0	\$0	\$0	\$9,315
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 (FP)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$2,068	\$0	\$0	\$0	\$2,068	\$18,611	\$0	\$0	\$0	\$0	\$0	\$18,611
Total Cost	\$0	\$0	\$28,753	\$26,816	\$8,161	\$5,247	\$68,978	\$41,917	\$0	\$0	\$0	\$0	\$0	\$41,917
TOTAL COST	\$0	\$0	\$28,753	\$26,816	\$8,161	\$5,247	\$68,978	\$41,917	\$0	\$0	\$0	\$0	\$0	\$41,917
TOTAL COST IRIGARAY AND CHRISTENSEN														\$110,895

  

RADIATION SURVEY														
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.03	0.08	0.00	0.02	
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 (\$)	\$96		\$210	\$220	\$67	\$43	\$636	\$115	\$0	\$17	\$43	\$0	\$12	\$167

  

TOTAL COST	\$61,346	\$43,311	\$187,820	\$166,082	\$71,008	\$31,352	\$560,919	\$115,906	\$16,448	\$12,799	\$26,908	\$12,207	\$5,285	\$189,554
TOTAL COST IRIGARAY AND CHRISTENSEN														\$750,473

Uranium One USA, Inc.  
2009 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 4

Trigary							Christensen					
POND RECLAMATION COST							Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB						
POND SLUDGE:												
Average Sludge Depth (Ft)	0.156		0.156		0.156	0.156	0.166	0.222	0.143	0.068	0.000	
Average Area of Sludge (Ft²)	50,604		50,604		64,299	64,299	20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft³)	7,907		7,907		10,047	10,047	3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds³)	293		293		372	372	128	172	110	52	0	
Volume of Sludge Per Truck Load (Yds³)	20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
# of Truck Loads of Sludge	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	
Total Sludge Handling Cost (\$)	\$0	\$3,528	\$0	\$3,528	\$0	\$4,464	\$4,464	\$1,536	\$2,064	\$1,320	\$624	
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%	
Transportation Cost per Truckload	\$1,000		\$1,000		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$14,700		\$14,700		\$18,600	\$18,600	\$6,400	\$8,600	\$5,500	\$2,600	\$0	
Disposal Cost Per Cubic Foot (\$)	\$11.00		\$11.00		\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Quantity Per Truck Load (Yds³)	20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft³)	540		540		540	540	540	540	540	540	540	
Disposal Cost (\$)	\$87,318		\$87,318		\$110,484	\$110,484	\$38,016	\$51,084	\$32,670	\$15,444	\$0	
Total Transportation & Disposal (\$)	\$0	\$102,018	\$0	\$102,018	\$0	\$129,084	\$44,416	\$59,684	\$38,170	\$18,044	\$0	
TOTAL SLUDGE COST (\$)	\$0	\$105,546	\$0	\$105,546	\$0	\$133,548	\$45,952	\$61,748	\$39,490	\$18,668	\$0	
POND LINER:												
Total Pond Area (Acres)	1.72		1.72		2.17	2.17	1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft²)	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%	0.0%	
Total Liner Area (Ft²)	89908		89908		113430	113430	68660	57499	57499	57499	0	
Liner Thickness (Mil)	30		180		180	30	180	30	30	30	0	
Liner Thickness (Inches)	0.0300		0.1800		0.1800	0.0300	0.1800	0.0300	0.0300	0.0300	0	
Liner Thickness (Ft)	0.0025		0.0150		0.0150	0.0025	0.0150	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%	0.0%	
Liner Volume (Ft³)	281		1686		2127	354	1287	180	180	180	0	
Truck Loads of Liner	0.5		3.1		3.9	0.7	2.4	0.3	0.3	0.3	0.0	
Liner Handling Cost (\$)												
Labor Crew Cost per Hour (\$)	\$90		\$90		\$90	\$90	\$90	\$90	\$90	\$90	\$0	
Hours per Load	2.0		2.0		2.0	2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load (\$)	\$180.00		\$180.00		\$180.00	\$180.00	\$180.00	\$180.00	\$180.00	\$180.00	\$0.00	
Total Liner Handling Cost (\$)	\$0	\$90	\$0	\$558	\$0	\$702	\$126	\$432	\$54	\$54	\$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%	
Transportation Cost per Truckload	\$1,000		\$1,000		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$500		\$3,100		\$3,900	\$700	\$2,400	\$300	\$300	\$300	\$0	
Disposal Cost Per Cubic Foot (\$)	\$11.00		\$11.00		\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Quantity Per Truck Load (Ft³)	540		540		540	540	540	540	540	540	540	
Disposal Cost (\$)	\$2,970		\$18,414		\$23,166	\$4,158	\$14,256	\$1,782	\$1,782	\$1,782	\$0	
Total Transportation & Disposal (\$)	\$0	\$3,470	\$0	\$21,514	\$0	\$27,066	\$4,858	\$16,656	\$2,082	\$2,082	\$0	
TOTAL LINER COST (\$)	\$0	\$3,560	\$0	\$22,072	\$0	\$27,768	\$4,984	\$17,088	\$2,136	\$2,136	\$0	
POND BACKFILL:												
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	18070	
Backfill Cost (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
TOTAL BACKFILL COST (\$)	\$17,480	\$17,160	\$17,480	\$17,160	\$5,034	\$29,234	\$32,638	\$18,096	\$18,096	\$18,096	\$36,140	
RADIATION SURVEY												
Areal required (acres)		1.72		1.72		2.90	2.17	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	
TOTAL SURVEY COST (\$)	\$0	\$894	\$0	\$894	\$0	\$1,508	\$1,128	\$572	\$572	\$572	\$0	
LEAK DETECTION SYSTEM REMOVAL												
Volume of Gravel and Piping (Ft³) (Assume 3")								26,250				
Quantity per Truckload (Ft³)								540				
Quantity to be Shipped to Licensed Site (Loads)								49				
Transportation Cost per Truckload								\$1,000				
Transportation Cost (\$)								\$49,000				
Handling Cost per load								\$8,750				
Disposal Fee per Cubic Foot (\$)								\$11				
Disposal Cost (\$)								\$288,750				

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POND RECLAMATION COST	Irigaray								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	
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$346,500	\$0	\$0	\$0	\$0	\$346,500
TOTAL POND RECLAMATION COST	\$17,480	\$127,160	\$17,480	\$145,672	\$5,034	\$192,058	\$172,298	\$428,208	\$82,552	\$60,294	\$39,472	\$36,140	\$1,323,848

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST (\$)  
TOTAL LINER COST (\$)  
TOTAL BACKFILL COST (\$)  
TOTAL RADIATION SURVEY COST (\$)  
LEAK DETECTION SYSTEM REMOVAL  
TOTAL POND RECLAMATION COST

\$478,188
\$58,384
\$136,186
\$4,424
\$0
\$677,182

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)  
TOTAL LINER COST (\$)  
TOTAL BACKFILL COST (\$)  
TOTAL RADIATION SURVEY COST (\$)  
LEAK DETECTION SYSTEM REMOVAL  
TOTAL POND RECLAMATION COST

\$165,858
\$23,496
\$108,524
\$2,288
\$346,500
\$646,666

TOTAL PROJECT COST - CR and IR (\$)

\$1,323,848
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Uranium One USA, Inc.  
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WORKSHEET 5

WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen							
	Mine Units #1 Thru #9	517 USMT Test Sites	Monitor/ Trend	Sub Total	Mine Units							
	#2	#3	#4	#5	#6	#7	#8	Sub Total				
Number of Wells	0	11		11								
Production / Injection Wells					286	443	211	322	380	537	375	2554
Monitor Wells					50	47	33	72	64	66	100	432
Misc. Baseline / Regional Wells					24	19	15	25	47	38	750	218
Total					360	509	259	419	491	641	525	3204
Average Depth	250	250	250		345	300	430	450	520	550	380	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Materials												
Bentonite Chips Required (Ft <sup>3</sup> /Well)	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	
Cost Per Bag (\$)	\$4.50	\$4.50	\$4.50		\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	
Cost/Well Bentonite Chips (\$)	\$67.50	\$67.50	\$67.50		\$67.50	\$67.50	\$67.50	\$67.50	\$67.50	\$67.50	\$67.50	
Gravel Fill Required (Ft <sup>3</sup> /Well)	15.7	15.7	15.7		26.5	21.5	35.9	38.1	45.8	49.1	30.4	
Gravel Fill Required (Yd <sup>3</sup> /Well)	0.58	0.58	0.58		0.98	0.80	1.33	1.41	1.70	1.82	1.13	
Cost of Gravel/Yd <sup>3</sup> (\$)	\$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		\$19.63	\$15.93	\$26.99	\$28.22	\$33.93	\$36.37	\$22.52	
Cement Cone/Markers Req'd/Well	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 (\$)	\$4.00	\$4.00	\$4.00		\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	
Total Materials Cost per Well	\$83.13	\$83.13	\$83.13		\$91.13	\$87.43	\$98.09	\$99.72	\$105.43	\$107.87	\$94.02	
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	
Labor Cost per Hour	\$60.00	\$60.00	\$60.00		\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	
Total Labor Cost per Well (\$)	\$60.00	\$60.00	\$60.00		\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	
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	
Backhoe w/Operator Cost/Hr (\$)	\$38.50	\$38.50	\$38.50		\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	
Total Equipment Cost per Well (\$)	\$38.50	\$38.50	\$38.50		\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	\$38.50	
Total Cost per Well (\$)	\$181.63	\$181.63	\$181.63		\$189.63	\$185.93	\$196.59	\$198.22	\$203.93	\$206.37	\$192.52	
												\$72,485
TOTAL WELL ABANDONMENT COST (\$)	\$0	\$1,998	\$0	\$1,998	\$68,267	\$94,636	\$50,917	\$83,055	\$100,128	\$132,283	\$101,072	\$630,359
GRAND TOTAL IRIGARAY AND CHRISTENSEN												\$632,357

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

	Ingaray 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 & Ingaray
<b>I Wellfield Piping</b>							
A. Removal							
Length/Well (Ft)	100	300	300	300	500	230	
Total Number of Wells	602	940	322	380	537	0	
Total Quantity (Ft)	60200	282000	96600	114000	268500	0	
Cost of Removal (\$/Ft)	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	
Cost of Removal (\$)	\$12,160	\$56,964	\$19,513	\$23,028	\$54,237	\$0	\$165,903
Average OD (Inches)	3.0	3.0	3.0	3.0	3.0	3.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	963	4,512	1,546	1,824	4,296	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	
Total Number of Truck Loads	1.8	8.4	2.9	3.4	8.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	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	
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%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$160	\$160	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Fee Per Yd³	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
Yds³ Per Load	20	20	20	20	20	20	
Disposal Cost (\$)	\$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%	0.0%	
Loads To Be Shipped	1.8	8.4	2.9	3.4	8.0	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$1,800	\$8,400	\$2,900	\$3,400	\$8,000	\$0	\$24,500
b. Disposal							
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	
Disposal Cost (\$)	\$10,692	\$49,896	\$17,226	\$20,196	\$47,520	\$0	\$145,530
Total Cost - Licensed Site	\$12,492	\$58,296	\$20,126	\$23,596	\$55,520	\$0	\$170,030
Total Cost - Transport & Disposal	\$12,492	\$58,296	\$20,126	\$23,596	\$55,520	\$0	\$170,030
Total Cost - WF Piping Removal & Disposal	\$24,652	\$115,260	\$39,639	\$46,624	\$109,757	\$0	\$335,933
<b>II Production Well Pumps</b>							
A. Pump and Tubing Removal							
Number of Production Wells	424	348	134	178	377	0	
Cost of Removal (\$/well)	\$22.50	\$22.50	\$22.50	\$22.50	\$22.50	\$22.50	
Cost of Removal (\$)	\$0	\$7,830	\$3,015	\$4,005	\$8,483	\$0	\$23,333
Number of Pumps Per Truck Load	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.9	0.7	1.0	2.1	0.0	
B. Survey & Decontamination (Pumps)							
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%	
Loads for Decontamination	0.0	1.0	0.4	0.5	1.1	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$435	\$174	\$218	\$479	\$0	\$1,305
C. Tubing Volume Reduction & Loading							
Length per Well (Ft)	100	300	300	450	500	230	
Total Quantity (Ft)	42,400	104,400	40,200	80,100	188,500	0	
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	\$4,713	\$0	\$10,330
Average OD (Inches)	3.0	3.0	3.0	3.0	3.0	3.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	678	1,670	643	1,282	3,016	0	



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	Irigaray Mine Unit(s) #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 & Irigaray
<b>WELLFIELD EQUIPMENT REMOVAL &amp; DISPOSAL</b>							
Quantity per Truckload (Ft³)	540	540	540	540	540	540	
Number of Truck Loads	1.3	3.1	1.2	2.4	5.6	0.0	
<b>D. Transport &amp; Disposal</b>							
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	1.1	0.0	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$160	\$160	
Transportation Cost (\$)	\$0	\$160	\$64	\$80	\$176	\$0	\$480
b. Disposal							
Disposal Fee Per Yd³	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
Yds³ Per Load	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$240	\$96	\$120	\$264	\$0	\$720
Total Cost - Landfill	\$0	\$400	\$160	\$200	\$440	\$0	\$1,200
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	1.3	4.0	1.5	2.9	6.6	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$1,256	\$4,043	\$1,541	\$2,873	\$6,635	\$0	\$16,349
b. Disposal							
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	
Disposal Cost (\$)	\$7,462	\$24,017	\$9,154	\$17,068	\$39,413	\$0	\$97,115
Total Cost - Licensed Site	\$8,719	\$28,061	\$10,695	\$19,941	\$46,048	\$0	\$113,464
Total Cost - Transport & Disposal	\$8,719	\$28,461	\$10,855	\$20,141	\$46,488	\$0	\$114,664
Total Cost - Pump Removal & Disposal	\$8,719	\$39,336	\$15,049	\$26,366	\$60,162	\$0	\$149,631
<b>III Surface Trunkline Piping</b>							
A. Removal							
Total Quantity (Ft)	44700	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	
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	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft³)	3934	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	
Total Number of Truck Loads	7.3	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	
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	\$160	\$160	\$160	\$160	\$160	\$160	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Fee Per Yd³	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
Yds³ Per Load	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	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	7.3	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$7,284	\$0	\$0	\$0	\$0	\$0	\$7,284
b. Disposal							
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	

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	Irigaray Mine Unit(s) #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 & Irigaray
<b>WELLFIELD EQUIPMENT REMOVAL &amp; DISPOSAL</b>							
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	20	20	
Disposal Cost (\$)	\$43,270	\$0	\$0	\$0	\$0	\$0	\$43,270
Total Cost - Licensed Site	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
Total Recirculation Phase \$0.863 per Kgal	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
Total Cost - Surface Trunkline Removal & Disposal	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
<b>IV Buried Trunkline</b>							
<b>A. Removal</b>							
Total Quantity (Ft)	7300	11565	24500	47000	28500	0	
Cost of Removal (\$/Ft)	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	
Cost of Removal (\$)	\$22,776	\$36,083	\$76,440	\$146,640	\$88,920	\$0	\$370,859
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	
Chipped Volume Reduction (Ft <sup>3</sup> /Ft)	0.088	0.088	0.088	0.130	0.130	0.130	
Chipped Volume (Ft <sup>3</sup> )	642	1018	2156	6110	3705	0	
Quantity Per Truck Load (Ft <sup>3</sup> )	540	540	540	540	540	540	
Number of Truck Loads	1.2	1.9	4.0	11.3	6.9	0.0	
<b>B. Survey &amp; Decontamination</b>							
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	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>C. Transport &amp; Disposal</b>							
<b>1.) Landfill</b>							
<b>a. Transportation</b>							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$160	\$160	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>b. Disposal</b>							
Disposal Fee Per Yd <sup>3</sup>	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
Yds <sup>3</sup> Per Load	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
<b>2.) Licensed Site</b>							
<b>a. Transportation</b>							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
Loads To Be Shipped	1.2	1.9	4.0	11.3	6.9	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$1,200	\$1,900	\$4,000	\$11,300	\$6,900	\$0	\$25,300
<b>b. Disposal</b>							
Disposal Cost Per Ft <sup>3</sup>	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd <sup>3</sup>	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	20	20	
Disposal Cost (\$)	\$7,128	\$11,288	\$23,760	\$67,122	\$40,986	\$0	\$150,282
Total Cost - Licensed Site	\$9,328	\$13,188	\$27,760	\$78,422	\$47,886	\$0	\$175,582
Total Cost - Transport & Disposal	\$9,328	\$13,188	\$27,760	\$78,422	\$47,886	\$0	\$175,582
Total Cost - Buried Trunkline Removal & Disposal	\$31,104	\$49,269	\$104,200	\$225,062	\$136,806	\$0	\$546,441
<b>V Manholes</b>							
<b>A. Removal</b>							
Total Quantity	5	8	5	11	5	0	
Cost of Removal (\$ Each)	\$117.00	\$117.00	\$117.00	\$117.00	\$117.00	\$117.00	
Cost of Removal (\$)	\$585	\$936	\$585	\$1,287	\$585	\$0	\$3,978
Quantity Per Truck Load	10	10	10	10	10	10	
Number of Truck Loads	0.5	0.8	0.5	1.1	0.5	0.0	
<b>B. Survey &amp; Decontamination</b>							
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	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>C. Transport &amp; Disposal</b>							
<b>1.) Landfill</b>							
<b>a. Transportation</b>							
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	\$160	\$160	\$160	\$160	\$160	\$160	

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	Irigaray Mine Unit(s) #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 & Irigaray
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL							
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Fee Per Yd³ (\$)	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
Yds³ Per Load	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%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	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	\$585	\$936	\$585	\$1,287	\$585	\$0	\$3,978
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	\$115,614	\$204,801	\$159,474	\$299,339	\$307,310	\$0	\$1,086,537

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	Irigaray Mine Unit(s) #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 & Irigaray
<b>TOPSOIL REPLACEMENT &amp; REVEGETATION</b>							
<b>I Process Plant and Office Building</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	5.0	2.5	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	8067	4033	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$16,133	\$8,067	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$192	\$96	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$16,326	\$8,163	\$0	\$0	\$0	\$0	\$24,488
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$2,600	\$1,300	\$0	\$0	\$0	\$0	\$3,900
C. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegetation	\$2,459	\$1,229	\$0	\$0	\$0	\$0	\$3,688
Sub Total - Process Plant and Office Bldg.	\$21,384	\$10,692	\$0	\$0	\$0	\$0	\$32,076
<b>II Ponds</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	
Topsoil Volume (Yds³)	32267	19360	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$64,533	\$38,720	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$769	\$461	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$65,302	\$39,181	\$0	\$0	\$0	\$0	\$104,484
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$10,400	\$6,240	\$0	\$0	\$0	\$0	\$16,640
C. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegetation	\$9,834	\$5,901	\$0	\$0	\$0	\$0	\$15,735
Sub Total - Ponds	\$85,537	\$51,322	\$0	\$0	\$0	\$0	\$136,858
<b>III Wellfields</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	
Average Affected Thickness (Ins)	3.5	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	18822	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$37,644	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$1,538	\$2,115	\$1,154	\$1,923	\$1,346	\$0	
Sub Total - Topsoil	\$39,182	\$2,115	\$1,154	\$1,923	\$1,346	\$0	\$45,719
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$20,800	\$28,600	\$15,600	\$26,000	\$18,200	\$0	\$109,200
C. Spill Cleanup							
Affected Area (Acres)		0.036	0	0	0	0	
Affected Area (ft²)		1,568	0	0	0	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	
Affected Volume (ft³)		392	0	0	0	0	
Quantity per Truckload (ft³)		540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	0.0	0.0	0.0	0.0	
Transportation Cost per Load		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)		\$726	\$0	\$0	\$0	\$0	
Handling Cost (\$240/load)		\$174	\$0	\$0	\$0	\$0	
Disposal Fee per Cubic Foot (\$)		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Disposal Cost (\$)		\$1,450	\$0	\$0	\$0	\$0	

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	Ingaray Mine Unit(s) #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
<b>TOPSOIL REPLACEMENT &amp; REVEGETATION</b>							
Sub Total - Spill Cleanup	\$0	\$2,351	\$0	\$0	\$0	\$0	\$2,351
D. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegetation	\$19,668	\$27,044	\$14,751	\$24,586	\$17,210	\$19,668	\$122,928
Sub Total - Wellfields (\$)	\$79,651	\$60,109	\$31,505	\$52,508	\$36,756	\$19,668	\$280,197
<b>IV Roads</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	25.0	20.0	15.0	21.0	12.0	15.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	
Topsoil Volume (Yds³)	40333	32267	24200	33880	19360	24200	
Unit Cost - Haul/Place (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$80,667	\$64,533	\$48,400	\$67,760	\$38,720	\$48,400	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$961	\$769	\$577	\$807	\$461	\$577	
Sub Total - Topsoil	\$81,628	\$65,302	\$48,977	\$68,567	\$39,181	\$48,977	\$352,633
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	\$56,160
C. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegetation	\$12,293	\$9,834	\$7,376	\$10,326	\$5,901	\$7,376	\$53,105
Sub Total - Roads (\$)	\$106,921	\$85,537	\$64,152	\$89,813	\$51,322	\$64,152	\$461,897
<b>V Other</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	41.0	19.0	5.0	5.0	5.0	5.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$1,576	\$731	\$192	\$192	\$192	\$0	
Sub Total - Topsoil	\$1,576	\$731	\$192	\$192	\$192	\$0	\$2,884
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	\$41,600
C. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegetation	\$20,160	\$9,342	\$2,459	\$2,459	\$2,459	\$2,459	\$39,337
Sub Total - Other	\$43,057	\$19,953	\$5,251	\$5,251	\$5,251	\$5,059	\$83,821
<b>VI Remedial Action</b>							
A. Topsoil Handling & Grading							
Affected Area (Acres)	65.5	54.3	25.0	38.0	26.0	30.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$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	\$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	\$0
C. Revegetation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	

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	Irigaray Mine Unit(s) #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 & Irigaray
TOPSOIL REPLACEMENT & REVEGETATION							
Sub Total - Revegetation	\$32,207	\$26,675	\$12,293	\$18,685	\$12,784	\$14,751	\$117,396
Sub Total - Remedial Action	\$32,207	\$26,675	\$12,293	\$18,685	\$12,784	\$14,751	\$117,396
TOTAL COST - TOPSOIL & REVEGETATION	\$368,756	\$254,288	\$113,201	\$166,257	\$106,113	\$103,631	\$1,112,245

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MISCELLANEOUS RECLAMATION							
	Irigaray Mine Unit(s) #1 Thru #3	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
<b>I Fence Removal &amp; Disposal</b>							
Quantity (Feet)	15240	35260	20000	9000	12000	0	
Cost of Removal/Disposal (\$/Ft)	\$0.68	\$0.68	\$0.68	\$0.68	\$0.68	\$0.68	
Cost of Removal/Disposal (\$)	\$10,363	\$23,977	\$13,600	\$6,120	\$8,160	\$0	\$62,220
<b>II Powerline Removal &amp; Disposal</b>							
Quantity (Feet)	9450	10565	18000	18000	5000	10000	
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
<b>III Powerpole Removal &amp; Disposal</b>							
Quantity	25	30	60	60	25	50	
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
<b>IV Transformer Removal &amp; Disposal</b>							
Quantity	0	1	0	0	1	0	
Cost of Removal/Disposal (\$/Each)	\$2,525	\$2,525	\$2,525	\$619	\$619	\$619	
Cost of Removal/Disposal (\$)	\$0	\$2,525	\$0	\$0	\$619	\$0	\$13,667
<b>V Booster Pump Assembly Removal &amp; Disposal</b>							
Quantity	0	6	5	5	0	0	
Cost of Removal/Disposal (\$/Each)	\$248	\$248	\$248	\$248	\$248	\$248	
Cost of Removal/Disposal (\$)	\$0	\$1,488	\$1,240	\$1,240	\$0	\$0	\$3,968
<b>VI Culvert Removal &amp; Disposal</b>							
Quantity (Feet)	150	1200	1000	1000	500	0	
Cost of Removal/Disposal (\$/Ft)	\$3.48	\$3.48	\$3.48	\$3.48	\$3.48	\$3.48	
Cost of Removal/Disposal (\$)	\$522	\$4,176	\$3,480	\$3,480	\$1,740	\$0	\$13,398
<b>VII Guardrail Removal</b>							
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
<b>VIII Low Water Stream Crossing</b>							
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
<b>IX Utilities Cost</b>							
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
<b>TOTAL MISCELLANEOUS COST</b>	<b>\$12,173</b>	<b>\$56,506</b>	<b>\$23,080</b>	<b>\$11,100</b>	<b>\$21,302</b>	<b>\$0</b>	<b>\$124,161</b>