

May 19 2016

Mr. Ron Linton, Project Manager  
Decommissioning & Uranium Recovery Licensing Directorate  
Division of Waste Management & Environmental Protection  
Office of Federal & State Materials & Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
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Rockville, Maryland 20852-2738

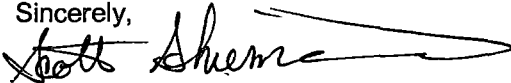
Re: Request for Additional Information, Annual Financial Assurance Estimate Adjustment  
Materials License SUA-1341

Dear Mr. Linton:

Please find the Uranium One response to the NRC Request for Additional Information (RAIs) identified in the February 12, 2016 letter regarding the Willow Creek Project annual financial assurance.

If you have any questions or need additional clarification on any information provided, please do not hesitate to contact me at 307-233-6330.

Sincerely,



Scott Schierman  
HSE Manager  
Uranium One Americas

cc: Linda Gersey – NRC Region IV  
Greg Kruse – Uranium One USA, Inc.

**Request for additional Information (RAI)  
Annual Financial Assurance Update for Uranium One USA Inc.,  
Willow Creek Project**

**RAI #1      As currently presented by Uranium One USA, Inc., (Uranium One), the surety estimate has not been adjusted to account for inflation in all unit cost used in the cost estimate (10 CFR Part 40, Appendix A, Criterion 9(f)(1); Appendix C NUREG-1569, Standard Review Plan for In Situ Leach Uranium Extraction License Applications (NUREG-1569)).**

**Basis for Request**

Criterion 9 of 10 CFR Part 40, Appendix A states that each cost estimate should be adjusted to identify any increases or decreases that are the result of inflation. Furthermore, Appendix C of NUREG-1569 states that the adjustment should be made by visiting the U.S. Department of Labor's change in Consumer Price Index.

The Decommissioning Cost Estimate (DCE) does not provide revised unit costs to account for inflation for all of its unit costs in the cost estimate. The following unit costs items do not appear to account for inflation:

- Electrical
  - Power Cost (Basis: Powder River Energy 2012)
- Transportation and Disposal
  - Solid waste landfill disposal cost (Basis: Casper City Landfill)
  - 11e2 Disposal Costs (Basis: Shirley Basin 2010)
  - On-site Disposal (Basis: Wyoming Department of Environmental Quality (WDEQ) Guideline 12- 2013)
- Vehicle Operation
  - Pickup (4x4 Diesel) (Basis: WDEQ Guideline 12-2013)
- Plant Dismantling
  - Concrete Floor Demolition (Basis: WDEQ Guideline 12-2013)
  - Cost of Demolition Per Ft<sup>3</sup> (Basis: WDEQ Guideline 12-2013)
- Equipment
  - Loader (Cat 980H) (Basis: WDEQ Guideline 12-2013)

Provide revised unit costs in the DCE to account for changes to inflation where the unit costs were based on activities performed multiple years ago and where Wyoming Department of Environmental Quality, Land Quality Division (WDEQ) Guideline 12's 2013 revision was used.

**Response RAI #1**

*Uranium One will use the January 2016 Guideline 12, costs to revise the Decommissioning Cost Estimate. Uranium One did use the WDEQ Guideline 12, 2013 version not knowing at the time that an updated version had been posted. Regardless the 2013 cost are adjusted by the Consumer Price Index for the period from 2013-2015. Please note that the majority of the costs*

*in the WDEQ Guideline 12, 2016 version went down from the costs used in Guideline 12, 2013 version.*

- Electrical
  - Power Costs have been adjusted based on the January 2016 charges from Powder River Energy 2016. Increase cost from \$0.0480 kw/hr to \$0.05040 kw/hr
- Transportation and Disposal
  - Solid waste landfill disposal cost was adjusted to be consistent with Casper City Landfill charges. Increased from \$58.50 to \$59.20
  - 11e2 Disposal Costs Uranium One has a three year disposal contract with Shirley Basin and disposal costs have not changed since 2010. Cost remained the same site.
  - On-site Disposal (Basis: Wyoming Department of Environmental Quality (WDEQ) Guideline 12- 2016. Cost decreased from 2013 Guideline 12 version.
- Vehicle Operation
  - Pickup (4x4 Diesel) (Basis: WDEQ Guideline 1-2016). Cost decreased from \$26.12 to \$17.84.
- Plant Dismantling
  - Concrete Floor Demolition (Basis: WDEQ Guideline 1–2016) Cost decreased from \$5.48 ft<sup>2</sup> to \$0.80 ft<sup>2</sup>
  - Cost of Demolition Per Ft<sup>3</sup> (Basis: WDEQ Guideline 1-2016) Cost decreased from \$0.29 ft<sup>3</sup> to \$.28 ft<sup>3</sup>
- Equipment
  - Loader (Cat 980H) (Basis: WDEQ Guideline 1-2016) Cost decreased from \$116.22 to \$101.32

**RAI #2      As currently presented the surety estimate does not list cost elements that are appropriately categorized as being part of the contingency factor (10CFR Part 40, Appendix A, Criterion 9(b)(1)(ii); Appendix C of NUREG-1569).**

#### **Basis for Request**

10 CFR Part 40, Appendix A, Criterion 9(b)(1)(ii) requires that cost estimate include an adequate contingency factor. Appendix C of NUREG-1569 states that “the licensee should include a contingency amount to the total cost estimate for the final site closure. The staff considers a 15-percent contingency to be an acceptable minimal amount.”

The Total Restoration and Reclamation Cost Estimate table includes a line item for “CONTINGENCY (Miscellaneous & Unknown) (25%)” and identifies the following cost elements as included in the 25 percent contingency factor:

- Project Design
- Contractor Profit and Mobilization
- Pre-Construction Investigation
- Project Management
- On-Site Monitoring

- Long-term Administration
- Site Security & Liability Assurance

The listed cost elements are not appropriately categorized as being part of the contingency factor because all of the listed cost elements represent anticipated costs for specific decommissioning cost elements. In contrast, contingency costs are *unforeseen* costs that are incorporated into the cost estimate through a contingency factor that helps to ensure coverage for unexpected circumstances that could raise decommissioning costs. Unless costs, for each of the listed cost elements and a contingency of at least 15 percent are fully included, the cost estimate does not account for the full cost of decommissioning.

Revise the surety estimate to separately account for the contingency factor after each of these cost elements are calculated.

### **Response RAI #2**

*NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Surveillance and Control of Uranium Recovery Facilities, October 1988 (ADAMS Accession No. ML020300533), Section 4.1.9, Contingency, states, "The staff currently considers a 15 percent engineering contingency to be an acceptable minimum amount. Additionally, the licensee should include a 10 percent minimum contingency for contract administration, in the event the licensee defaults, and the State or Federal Government is required to administer a contract to carry out the licensee's reclamation and decommissioning responsibilities".*

*Uranium One has provide a 10% contingency for Project Management which amounts to \$1,790,924 which would include the cost for the administrator to carry out the licensee's reclamation and decommissioning activities which is consistent with NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988.*

*The third party costs referenced in the RAI for professional, engineering and/or reporting costs as required by the license would appear to Uranium One to be covered in the 10% contract administration cost and or the 15% engineering contingency referenced in NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988. A 15% contingency as specified for engineering is based on conventional mills and In-situ facilities. The engineering design for a conventional site held into perpetuity with a design cover engineered to last at least 200 years but designed for 1000 years has a significant larger requirement for engineering and quality control contingency than that required of an in-situ uranium recovery facility which will have reclamation activities completed approximately four years after the end of operation.*

*Section 4.0 of NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988 provides the detailed cost information breakdown for mills and in-situ facilities. Section 4.1.5 calls for Radiological Surveys and Environmental Monitoring cost to be included in the surety*

*estimate and these have been included. The cost for report preparation is not specifically addressed in the October 1988 Technical Position document and those costs minor as they would be would be considered part of the engineering and/or Project Management contingency cost.*

*Based on Uranium Ones review of the NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988 costs for report preparation is included in the as part of the 25% contingency costs included in the surety estimate.*

**RAI #3      As currently presented, the surety estimate does not appear to account for all estimated costs for engineering design, project design and long-term regulatory agency reporting costs; (10 CFR Part 40, Appendix A, Criterion 9(b)(1)(ii); Appendix C of NUREG-1569.**

#### **Basis for Request**

Appendix C (IV) of NUREG-1569 calls for itemized, estimate costs for engineering design, review, and change; mobilization; quality control; and radiological safety; and any other costs not included in other estimation categories. The Willow Creek cost estimate does not appear to include several of these itemized costs and, therefore, may not account for the full cost of decommissioning.

For example, for a third party the requirements of the license and to complete decommissioning and reclamation activities, there would be professional, engineering and/or reporting costs as required in the license for items such as:

- Semi-annual effluent and environmental monitoring program reporting. License Condition (LC) 12.1 states, "Effluent and environmental monitoring program results provided in the semi-annual report and in accordance with 10 CFR 40.65, "Effluent monitoring reporting requirements," shall be reported in the format shown in Table 3 of Regulatory Guide 4.14, (Rev. 1) entitled, "Sample Format for Reporting Monitoring Data."
- Annual Reporting. LC 12.3 states, "An annual report will be submitted to the NRC in accordance with LC 9.2, that includes the ALARA audit report, land use survey, monitoring data, and the SERP information required under LC 9.4(d). The report shall include a summary of the daily walk-through inspection."
- Final Decommissioning Completion Reporting. LC 9.3 states, "The land and structures will be decommissioned according to the Decommissioning Plan submitted December 19, 200 (Agencywide Documents Access and Management System (ADAMS) Accession No ML003781238), as revised by submittals dated June 15, 2001 (ADAMS Accession No. ML011700655), June 18, 2001 (ADAMS Accession No. ML011710035), and August 31, 2001 (ADAMS Accession No. ML012490112) and in accordance with 10 CFR 40.42." Furthermore, Section 12.0 of the approved Decommissioning Plan titled Final Decommissioning Completion Report states. "Within six months of the conclusion of decommissioning and surface reclamation, a report containing all applicable

documentation will be submitted to NRC and the Wyoming Department of Environmental Quality.”

- Ground water restoration monitoring reporting. LC 10.15 states, “The licensee shall conduct ground water restoration and post-restoration monitoring as described in Section 6.1 of the approved license application.” Section 6.1.3.3 of the License Renewal Application titled Determination of Restoration Success states, “After the restoration in an area has been achieved, and the post restoration stabilization monitoring program is completed, a report will be completed summarizing the results of the restoration program. The restoration results will be compared with the restoration target values (discussed in Section 6.1.1 above). The report will also provide the results of the stability monitoring program. The report will be submitted to the regulatory agencies for their review and approval. The acceptance of the well-field restoration and stability success will be based on the ability to meet the goals of the restoration program and the lack of significant increasing trends during the stability monitoring period.”
- Alternate Concentration Limits (ACL) application LC 10.15 states, “In submitting any license amendment application requesting review of proposed ACL pursuant to 10 CFR 40, Appendix A, Criterion 5(B)(6), the licensee must also show it has first made practicable efforts to restore the specified hazardous constituents to the background or maximum contamination levels (whichever is greater).”

The reporting costs do not appear to not fall under any of the subheadings listed under the heading “Miscellaneous Costs Associated with Third Party Contractors.” Additionally, it is unknown if the \$200,000 Project Design cost would be adequate for development of a Final Decommissioning Report, Ground Water Restoration Report(s), ACL application, and other reports that may fall under the miscellaneous cost line labeled “Project Design.” Therefore, the NRC staff requests that the licensee revise or justify its surety estimate as necessary, to reflect engineering design; project design; and long-term regulatory agency reporting costs; and any other costs not included in other estimation categories.

The NRC staff notes that the financial assurance estimate may require reporting costs (semi-annual and annual) for at least four years after the end of operations. Figure 3.14 of the approved License Renewal Application shows that reclamation schedule and final surface reclamation occurring approximately four years after the end of operations.

Demonstrate or provide sufficient funding in the DCE to cover anticipated costs related to engineering design, project design, and long-term regulatory agency reporting costs.

### **Response RAI #3**

*The third party costs referenced in the RAI for professional, engineering and/or reporting costs as required by the license would appear to Uranium One to be covered in the 10% contract administration cost and or the 15% engineering contingency referenced in NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988. A 15% contingency as specified for engineering is based on conventional mills and In-situ facilities. The engineering design for a conventional site held into perpetuity with a design cover engineered to last at least 200 years*

*but designed for 1000 years has a significant larger requirement for engineering and quality control contingency than that required of a in-situ uranium recovery facility which will have reclamation activities completed approximately four years after the end of operation.*

*Uranium One has provide a 15% contingency for which amounts to \$2,622,784 which would be adequate for development of a Final Decommissioning Report, Ground Water Restoration Report, and if required ACL application and all other reports that may fall under the contingency cost. The total Miscellaneous Cost Associated with a Third Party Contractor accounts for \$4,371,306 in the 2015 surety estimate or 25% of the total reclamation estimate. Uranium One is confused by the NRC reference to \$200,000 for Project Design. The licensee's reclamation and decommissioning activities are consistent with NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988. The surety submittal appears to address the items identified in Appendix C of NUREG-1569 which is the information required for submittal of a new License Application as referenced by NUREG-1569 Standard Review Plan for In Situ Leach Uranium Extraction License Application. Funding is currently included in the surety estimate to perform radiological surveys for the entire affected area for the Process Plant and Office buildings, ponds, and for each wellfield. Cleanup standards have been adopted that are consistent with those specified in Appendix A of 10 CFR 40. If the licensee needs to prepare an ACL application the 15% contingency cost of \$2,622,784 should be sufficient to address the NRC cost concerns in regards to this matter.*

*Engineering Design, Project Design and long-term regulatory agency reporting costs are addressed as follows:*

*Engineering Design cost should be minimal as Willow Creek currently has an approved restoration plan that can be followed by the third party independent contractor for completion of site decommissioning activities. As such the third party independent contractor would have the appropriate personnel to complete the Semi-annual Effluent Monitoring Report, Annual reporting including the ALARA Audit, ground water restoration monitoring report all of which are conducted internally by Uranium One and would be included in the Project Management costs.*

*Based on Uranium Ones review of the NRC's Technical Position on Financial Assurances for Reclamation, Decommissioning, and Long-Term Control of Uranium Recovery Facilities dated October 1988 and NUREG-1569 costs for report preparation is included in the surety estimate as part of the 25% contingency costs or \$4,371,306 included in the surety estimate.*

*Uranium One would like to remind NRC that the current surety estimate contains costs associated with groundwater sweep and reverse osmosis activities for Mine Units 2-6 that Uranium One has completed and are currently awaiting NRC review and approval of the groundwater restoration report for Christensen Ranch Mine Units 2-6. The surety cost associated with these completed groundwater cleanup activities in Mine Units 2-6 account for \$3,671,056 plus CPI index adjustment and 25% contingency in the 2015 surety estimate.*

**RECURRING COST**

	Item	Amount (\$)	Units	Cost Basis
<b>ELECTRICAL</b>				
	Power Cost (actual costs)	\$0.05040	kw/hr	Current operating cost of electricity - Powder River Energy - Jan 2016
<b>LABOR RATES</b>				
	Supervisor	\$25.00	Hour	Operator Wage below + \$5.00 referenced in WDEQ Guideline 12, Section I
	Plant Operator	\$20.00	Hour	Based on current average wage structure for Willow Creek Operators
	Plant Operator	\$20.00	hour	Based on current average wage structure for Willow Creek Operators
	Laborers (Group 1)	\$15.93	hour	From 2015 State Wages Department of Transportation Prevailing Wages.
	Laborers (Group 2)	\$18.48	hour	From 2015 State Wages Department of Transportation Prevailing Wages.
<b>ANALYTICAL</b>				
	Guideline 8	\$390.00	batch	Current rate used in worksheet 1
<b>TRANSPORTATION AND DISPOSAL</b>				
	Distance to Landfill	115	(miles)	The distance from Christensen Ranch/Irigary to Casper Landfill is ~115 miles
	Transportation Cost	\$0.21	(\$/Ton-Mile)	Estimate from local trucking company (Dec. 2014)
	Solid Waste landfill disposal cost	\$59.20	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 <sup>3</sup> )	
	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	\$0.33	cubic foot	WDEQ Guideline 12, Appendix K, Concrete Disposal On Site $\$8.25\text{yd}^3 = \$0.31\text{ft}^3$
	11e2 Transportation Cost Per Truck	\$2,100.00		Constant cost per load based on current contract with local trucking company
<b>VEHICLE OPERATION</b>				
	Pick up 4X4 (diesel)	\$17.84	unit	Cost per WDEQ Guideline 12 Table D-1
<b>PLANT DISMANTLING</b>				
	Concrete Floor Demolition	\$0.80	square foot	Costs per WDEQ Guideline 12, Appendix K
	Cost of Demolition Per Ft <sup>3</sup>	\$0.28	Cubic foot	WDEQ Guideline 12, Appendix K
<b>PLANT/EQUIPMENT DECONTAMINATION AND DISPOSAL</b>				
	Decontamination	\$0.13	square foot	Based on actual costs
	Decontamination	\$435.00	truck load	Based on actual costs
<b>WELL PLUGGING AND ABANDONMENT</b>				
	Bentonite Chips	\$4.70	50# bag	Based on 2014 current costs from Casper Well Supply
	Cement Cones	\$10.00	per hole	Costs per WDEQ Guideline 12, App. L, Abandonment and Sealing of Drill and Monitor Wells



**EQUIPMENT**

Dozer	\$83.31	acre	<i>Cost per WDEQ Guideline 12, App M, rough grading/backfill</i>
Backhoe Loader (Cat 430E 4WD)	\$28.47	hour	<i>Cost per WDEQ Guideline 12, Table D-1</i>
Loader (Cat 980H)	\$101.32	hour	<i>Cost per WDEQ Guideline 12, Table D-1</i>
Pick up 4X4 (gasoline)	\$30.35	hour	<i>Cost per WDEQ Guideline 12, Table D-1</i>
Hose Reel	\$45.00	hour	<i>Costs for equipment from operating ISR facility</i>

**CULVERT REMOVAL**

20 foot culvert	\$120.73		<i>Cost per WDEQ Guideline 12, Appendix J</i>
per foot	\$6.04	foot	

**ELECTRICAL POWERLINES & TRANSFORMERS**

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

**FENCING**

Removal	\$0.38	linear foot	<i>WDEQ Guideline 12, Appendix H</i>
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**RECLAMATION**

Discing and Seeding	\$280	acre	<i>Operator Experience based on Current Contractor Pricing</i>
Top Soil Application	\$0.870	cu/yd	<i>Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet</i>
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$0.870	cu/yd	<i>Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet</i>
Unit Cost - Grading (\$/Ac)	\$82.31	acre	<i>Costs per WDEQ Guideline 12, Appendix M D9 dozer</i>

**References**

Guideline 12 costs were updated using Oct. 2014 version.

Guideline 12 Reclamation cost were updated using Feb. 2016 version

Uranium One USA, Inc.

SUMMARY OF RECLAMATION/RESTORATION SURETY ESTIMATE, June 30, 2014 - July 1, 2015

WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341

TABLE 1

			WDEQ Estimate	NRC Estimate
<b>I GROUNDWATER RESTORATION - Worksheet 1:</b>			<b>\$8,786,965</b>	<b>\$9,048,025</b>
Adjustment for Inflation = 17.6%				
(Sep. 2006 CPI All Urban Consumers, 202.9, to June 2015, 238.638)			\$1,547,701	\$1,593,683
Subtotal Groundwater Restoration			\$10,334,666	\$10,641,708
<b>II DECOMMISSIONING AND SURFACE RECLAMATION:</b>				
A.	Process Plant(s) Equipment Removal and Disposal Worksheet 2		\$252,905	\$252,905
B.	Plant Building(s) Demolition and Disposal Worksheet 3		\$1,018,474	\$1,018,474
C.	Process Pond Sludge and Liner Handling Worksheet 4		\$1,112,895	\$1,112,895
D.	Well Abandonment Worksheet 5		\$873,657	\$873,657
E.	Wellfield Equipment Removal and Disposal Worksheet 6		\$2,148,380	\$2,148,380
F.	Topsoil Replacement and Revegetation Worksheet 7		\$1,173,982	\$1,173,982
G.	Miscellaneous Reclamation Activities Worksheet 8		\$134,610	\$134,610
Sub Total - Decommissioning and Surface Reclamation			\$6,714,904	\$6,714,904
<b>TOTAL RESTORATION AND RECLAMATION</b>			<b>\$17,049,569</b>	<b>\$17,356,611</b>
<b>SUBTOTAL</b>			<b>\$17,049,569</b>	<b>\$17,356,611</b>
Miscellaneous Costs Associated with Third Party Contractors				
		WDEQ		NRC
Project Design	\$250,000.00			15%
Site Security & Liability Assurance	\$250,000.00			
Contractor Profit & Mobilization	10%			
Pre-construction Investigation	1%			
Project Management	3%			10%
On-site monitoring	0.5%			
Longterm Administration	2%			
Subtotal miscellaneous additions to surety	16.1%		25.0%	
			\$3,244,981	\$4,339,152.83
<b>SUBTOTAL</b>			<b>\$20,294,550</b>	<b>\$21,695,764</b>
		WDEQ		
Contingency	4%		\$811,782	\$0
<b>GRAND TOTAL RESTORATION AND RECLAMATION</b>			<b>\$21,106,332</b>	<b>\$21,695,764</b>



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	Christensen Mine Unit #10	Christensen Mine Unit #11
<b>Technical Assumptions:</b>											
Wellfield Area (Ft²)	522720	784080	890000	798944	510088	1210968	2021243	1180476	1750020	1337940	780591
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	27.10	40.17	30.71	17.92
Affected Ore Zone Area (Ft²)	522720	784080	890000	798944	550193	1346004	2058344	1180476	1750020	1337940	0
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0	20.0	20.0
Affected Volume:											
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Total Volume (Ft³)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.8	30597937.92	50400576	38532672	0
Porosity	26.0%	26.0%	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	7.48	7.48
Gallons Per Pore Volume	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Number of Wells in Unit(s)											
Production Wells	150	274	91	176	81	134	178	167	264	261	0
Injection Wells	310	330	195	267	130	188	202	389	516	473	0
Monitor Wells	150	165	50	47	33	72	64	66	76	83	44
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47	11	14	10	6
Average Well Spacing (Ft)	35	35	85	70	85	85	100	70	60	60	60
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	375	500	500

I GROUNDWATER SWEEP

A. PLANT & OFFICE

<b>Operating Assumptions:</b>											
Flowrate (gpm)			200	200	200	200	200	200	200	200	200
PV's Required			1	1	1	1	1	1	1	1	1
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Total KGals for Treatment			27417	22375	19568	75057	125664	59507	98019	74938	0
<b>Cost Assumptions:</b>											
<b>Power</b>											
Avg Connected Hp			40.00	40.00	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	0.83	0.83
\$/Kwh			\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504
Gallons Per Minute			200	200	200	200	100	100	100	100	100
Gallons Per Hour			12000	12000	12000	12000	6000	6000	6000	6000	6000
Cost Per Hour			1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
Cost Per Gallon			0.00014	0.00014	0.00014	0.00014	0.00028	0.00028	0.00028	0.00028	0.00028
Cost Per KGal (\$)			\$0.139	\$0.139	\$0.139	\$0.139	\$0.279	\$0.279	\$0.279	\$0.279	\$0.279
<b>Chemicals</b>											
Antiscalant (\$/KGals)			\$0.0947	\$0.0947	\$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	\$0.099	\$0.099
Repair & Maintenance (\$/KGals)			\$0.0379	\$0.0379	\$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	\$0.000	\$0.000
Total Cost Per KGal			\$0.502	\$0.498	\$0.486	\$0.421	\$0.567	\$0.510	\$0.510	\$0.510	\$0.510
Total Treatment Cost			\$13,773	\$11,152	\$9,511	\$31,599	\$71,199	\$30,377	\$50,037	\$38,255	\$0
<b>Utilities</b>											
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65
Telephone (\$/Month)			\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment											
Minutes For Treatment			137085	111873	97842	375285	628321	0	0	0	0
Hours For Treatment			2285	1865	1631	6255	10472	0	0	0	0
Days For Treatment			95	78	68	261	436	0	0	0	0
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			3.1	2.6	2.2	8.6	14.3	0.0	0.0	0.0	0.0
Utilities Cost (\$)			\$1,768	\$1,443	\$1,262	\$4,841	\$8,105	\$0	\$0	\$0	\$0
<b>TOTAL PLANT &amp; OFFICE COST</b>	\$0	\$0	\$15,541	\$12,595	\$10,773	\$36,440	\$79,304	\$30,377	\$50,037	\$38,255	\$0

I GROUNDWATER SWEEP (Continued)

B. WELLFIELD

<b>Cost Assumptions:</b>											
<b>Power</b>											
Avg Flow/Pump (gpm)			20	20	20	20	20	20	20	20	20
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			10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg Connected Hp			30	30	30	30	30	30	30	30	30
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504

Uranium One USA, Inc.  
2014-2015 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	Christensen Mine Unit #10	Christensen Mine Unit #11
GROUNDWATER RESTORATION											
Gallons Per Minute			200	200	200	200	200	200	200	200	200
Gallons Per Hour			12000	12000	12000	12000	12000	12000	12000	12000	12000
Cost Per Hour (\$)			\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25
Guideline 12 costs Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)			0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289
Total Cost Per KGal			\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394
TOTAL WELLFIELD COST	\$0	\$0	\$10,802	\$8,815	\$7,710	\$29,571	\$49,509	\$23,445	\$38,618	\$29,524	\$0
TOTAL GROUND WATER SWEEP COST	\$0	\$0	\$26,343	\$21,410	\$18,482	\$66,011	\$128,813	\$53,822	\$88,654	\$67,779	\$0

II REVERSE OSMOSIS

A. PLANT & OFFICE

Operating Assumptions:											
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	10.0
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321461	595068696.7	980190402	749383405.1	0
Total KGals for Treatment			137085	111873	97842	375285	628321	595069	980190	749383	0
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											
Avg Connected Hp			560.00	560.00	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	0.830	0.830
\$/Kwh			\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504
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 (\$)			\$23.43	\$23.43	\$23.43	\$23.43	\$23.43	\$23.43	\$23.43	\$23.43	\$23.43
Cost Per Gallon (\$)			\$0.00078	\$0.00078	\$0.00078	\$0.00078	\$0.00078	\$0.00078	\$0.00078	\$0.00078	\$0.00078
Cost Per KGal (\$)			\$0.781	\$0.781	\$0.781	\$0.781	\$0.781	\$0.781	\$0.781	\$0.781	\$0.781
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
Elution (\$/KGals)			\$0.099	\$0.099	\$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	\$0.038	\$0.038
Sampling & Analysis (\$/KGals)	\$2,800		\$0.090	\$0.122	\$0.092	\$0.039	\$0.032	\$0.054	\$0.034	\$0.042	\$0.038
Total Cost Per KGal (\$)			\$1.121	\$1.152	\$1.122	\$1.069	\$1.062	\$1.085	\$1.064	\$1.073	\$1.078
Total Pumping Cost (\$)	\$0	\$0	\$153,611	\$128,881	\$109,823	\$401,218	\$667,263	\$645,387	\$1,043,411	\$804,013	\$0
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	195684	750570	1256643	1190137	1960381	1498767	0
Hours For Treatment			4570	3729	3261	12510	20944	19836	32673	24979	0
Days For Treatment			190	155	136	521	873	826	1361	1041	0
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	17.1	28.7	27.2	44.8	34.2	0.0
Utilities Cost (\$)	\$0	\$0	\$3,560	\$2,882	\$2,543	\$9,662	\$16,216	\$15,368	\$25,312	\$19,323	\$0
TOTAL PLANT & OFFICE COST	\$2,800	\$0	\$157,171	\$131,762	\$112,365	\$410,879	\$683,478	\$660,755	\$1,068,723	\$823,336	\$0

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	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
\$/Kwh			\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504
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 (\$)			\$3.14	\$3.14	\$3.14	\$3.14	\$3.14	\$3.14	\$3.14	\$3.14	\$3.14
Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)			\$0.105	\$0.105	\$0.105	\$0.105	\$0.105	\$0.105	\$0.105	\$0.105	\$0.105
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289



Uranium One USA, Inc.  
2014-2015 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	Christensen Mine Unit #10	Christensen Mine Unit #11
GROUNDWATER RESTORATION											
Total Cost Per KGal			\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394	\$0.394
TOTAL WELLFIELD COST	\$0	\$0	\$53,954	\$44,031	\$38,509	\$147,705	\$247,295	\$234,207	\$385,783	\$294,942	\$0
Circulate 1 PV of Hydrogen Sulfide gas reductant \$0.863 per Kgal			\$23,661	\$19,309	\$16,888	\$64,774	\$108,448	\$51,354	\$84,590	\$64,672	\$0
TOTAL REVERSE OSMOSIS COST	\$2,800	\$0	\$234,786	\$195,102	\$167,762	\$623,358	\$1,039,221	\$946,316	\$1,539,097	\$1,182,950	\$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	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	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	148,767,174	245,047,601	187,345,851	0
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080	148,767	245,048	187,346	0
Brine Concentration Factor			60%	60%	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	89,260,305	147,028,560	112,407,511	0
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Average Monthly Reqmt (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,283,910	3,281,629	3,281,888	3,286,769	
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,121,828	3,122,087	3,126,968	
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930	84,913,717	139,869,476	106,942,317	
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662	84,914	139,869	106,942	
Cost Assumptions:											
Power											
Avg Connected Hp			100.00	100.00	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	180.00	180.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504	\$0.0504
Gallons Per Minute			150	150	150	150	150	150	150	150	150
Gallons Per Hour			9000	9000	9000	9000	9000	9000	9000	9000	9000
Cost Per Hour (\$)			\$11.71	\$11.71	\$11.71	\$11.71	\$11.71	\$11.71	\$11.71	\$11.71	\$11.71
Cost Per Gallon (\$)			\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013
Cost Per KGal (\$)			\$1.301	\$1.301	\$1.301	\$1.301	\$1.301	\$1.301	\$1.301	\$1.301	\$1.301
Chemicals (\$/KGals)											
RO Antiscalant (\$/KGals)			\$0.190	\$0.190	\$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	\$0.237	\$0.237
Sulfuric Acid (\$/KGals)			\$0.534	\$0.534	\$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	\$0.000	\$0.000
Algicide			\$0.111	\$0.111	\$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	\$0.077	\$0.077
Total Cost Per KGal			\$2.450	\$2.450	\$2.450	\$2.450	\$2.450	\$2.450	\$2.450	\$2.450	\$2.450
TOTAL WASTE DISPOSAL WELL COST			\$47,921	\$39,123	\$34,201	\$131,246	\$219,711	\$208,076	\$342,742	\$262,056	\$0

<b>IV STABILIZATION MONITORING</b>											
Operating Assumptions:											
Time of Stabilization (mos)			12	12	12	12	12	12	12	12	9
Frequency of Analysis (mos)			3	3	3	3	3	3	3	3	3
Total Sets of Analysis			4	4	4	4	4	4	4	4	4
Cost Assumptions:											
Generator Rental per sample set			\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280
Analytical costs per set			\$9,360	\$7,410	\$5,850	\$9,750	\$18,330	\$4,290	\$5,460	\$3,900	\$2,340
Total Sampling & Analysis Cost (\$)			\$38,560	\$30,760	\$24,520	\$40,120	\$74,440	\$18,280	\$22,960	\$16,720	\$10,480
Utilities (Power + Telephone per month)			\$565	\$565	\$565	\$565	\$565	\$565	\$565	\$565	\$565
Total Utilities Cost (\$)			\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$5,085
TOTAL STABILIZATION COST	\$0	\$0	\$45,340	\$37,540	\$31,300	\$46,900	\$81,220	\$25,060	\$29,740	\$23,500	\$0

<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	\$24.10	2080	\$100,235
1 MIT Vehicle & Equip	\$21.00	2080	\$43,680
Cost per Year			\$445,515
Time Required - Years		2.0	
TOTAL RESTORATION LABOR COST			\$891,030

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	Christensen Mine Unit #10	Christensen Mine Unit #11
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
WDEQ-WQD 3% Annual Adjustment		\$8,412
Total	\$0	\$148,612

	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	Christensen Mine Unit #10	Christensen Mine Unit #11	TOTAL
SUMMARY:												
I GROUNDWATER SWEEP	\$0	\$0	\$26,343	\$21,410	\$18,482	\$66,011	\$128,813	\$53,822	\$88,654	\$67,779	\$0	
II REVERSE OSMOSIS	\$2,800	\$0	\$234,786	\$195,102	\$167,762	\$623,358	\$1,039,221	\$946,316	\$1,539,097	\$1,182,950	\$0	
III WASTE DISPOSAL WELL	\$0	\$0	\$47,921	\$39,123	\$34,201	\$131,246	\$219,711	\$208,076	\$342,742	\$262,056	\$0	
IV STABILIZATION	\$0	\$0	\$45,340	\$37,540	\$31,300	\$46,900	\$81,220	\$25,060	\$29,740	\$23,500	\$0	
SUB TOTAL	\$2,800	\$0	\$354,389	\$293,176	\$251,745	\$867,515	\$1,468,966	\$1,233,274	\$2,000,233	\$1,536,284	\$0	\$8,008,382
V LABOR												\$891,030
VI CAPITAL												\$148,612
TOTAL GROUNDWATER RESTORATION COST												\$9,048,025
Credit for Completion of Groundwater Sweep (WDEQ)			\$26,343	\$21,410	\$18,482	\$66,011	\$128,813	\$0	\$0	\$0	\$0	\$261,060
Credit for Completion of Reverse Osmosis (WDEQ)												\$0
Credit Completion of Stabilization Monitoring (WDEQ)												\$0
Credit Subtotal			\$26,343	\$21,410	\$18,482	\$66,011	\$128,813	\$0	\$0	\$0	\$0	\$261,060
GRAND TOTAL WDEQ	\$2,800	\$0	\$328,046	\$271,766	\$233,263	\$801,504	\$1,340,152	\$1,233,274	\$2,000,233	\$1,536,284	\$0	\$8,786,965
GRAND TOTAL NRC (no credit)	\$2,800	\$0	\$354,389	\$293,176	\$251,745	\$867,515	\$1,468,966	\$1,233,274	\$2,000,233	\$1,536,284	\$0	\$9,048,025



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	188	110	40	0		116	215.6	42	97.5	
Quantity Per Truck Load (Yds³)	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	4.9	
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	\$5,133	\$2,523	\$0	\$914	\$2,121	\$5,557
II Dismantle and Loading Cost												
Cost Per Truck Load (\$)	\$650	\$650	\$650	\$650	\$650	\$650		\$650	\$650	\$650	\$650	
Total Cost	\$1,300	\$0	\$6,110	\$3,575	\$1,300	\$0	\$12,285	\$3,770	\$7,007	\$1,365	\$3,169	\$15,311
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	\$1,878	\$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	\$483	\$483	\$483	\$483	\$483	\$483		\$483	\$483	\$483	\$483	
Transportation Cost	\$773	\$0	\$3,632	\$0	\$483	\$0		\$2,241	\$0	\$811	\$1,884	
Disposal Fee Per Ton (1 yd³ = 1 ton)	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20		\$59.20	\$59.20	\$59.20	\$59.20	
Disposal Cost (\$)	\$1,894	\$0	\$8,904	\$0	\$1,184	\$0		\$5,494	\$0	\$1,989	\$4,618	
Total Cost	\$2,667	\$0	\$12,536	\$0	\$1,667	\$0		\$7,735	\$0	\$2,801	\$6,501	
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	\$882	\$2,048	
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	\$11,167	\$32,670	\$5,940	\$0		\$6,890	\$64,033	\$2,495	\$5,792	
Total Cost Licensed Site	\$3,216	\$0	\$15,115	\$44,220	\$8,040	\$0		\$9,326	\$86,671	\$3,377	\$7,839	
Total Cost Transportation & Disposal	\$5,883	\$0	\$27,651	\$44,220	\$9,707	\$0	\$87,461	\$17,061	\$86,671	\$6,177	\$14,340	\$124,250
TOTAL COST	\$7,618	\$0	\$39,076	\$47,795	\$12,268	\$0	\$106,757	\$24,111	\$93,678	\$8,730	\$19,630	\$146,148
TOTAL COST - IRIGARAY AND CHRISTENSEN												\$252,905

Irigaray							Christensen									Misc	
Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Weilfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Buildings	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 (39)	1 Story Pre Fab (5)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	1 Story Steel Frame (5)			
Demolition Volume (Ft³)	179400	108720	430400	386400	126000	69640		192000	168480	75920	104800	64800	11000	115800			
Cost of Demolition Per Ft³	\$0.2800	\$0.2800	\$0.2800	\$0.2800	\$0.2800	\$0.2800		\$0.2800	\$0.2800	\$0.2800	\$0.2800	\$0.2800	\$0.2800	\$0.2800			
Demolition Cost (\$)	\$50,232	\$30,442	\$120,512	\$108,192	\$35,280	\$19,499	\$364,157	\$53,760	\$47,174	\$21,258	\$29,344	\$18,144	\$3,080	\$32,424	\$172,760		
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%	10.0%			
Cost For Gutting (\$)	\$7,535	\$3,044	\$36,154	\$10,819	\$7,056	\$1,950	\$66,558	\$10,752	\$0	\$0	\$5,869	\$1,814	\$308	\$3,242	\$18,743		
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	80640			
Weight per Truckload (Tons)	20	20	20	20	20	20		20	20	20	20	20	20	20			
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	2.0			
Distance to Landfill	115	115	115	115	115	115		115	115	115	115	115	115	115			
Unit Cost (Ton/Mile)	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21		\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21			
Transportation Cost per Truckload	\$483	\$483	\$483	\$483	\$483	\$483		\$483	\$483	\$483	\$483	\$483	\$483	\$483			
Transportation Cost (\$)	\$1,917	\$1,162	\$4,599	\$4,129	\$1,346	\$744	\$13,898	\$2,052	\$805	\$338	\$769	\$469	\$118	\$974	\$4,551		
Disposal Cost per Truckload	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00		\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00	\$1,184.00			
Disposal Cost (\$)	\$4,699	\$2,848	\$11,274	\$10,122	\$3,301	\$1,824	\$34,068	\$5,029	\$1,973	\$830	\$1,886	\$1,149	\$288	\$2,359	\$11,155		
TOTAL COST	\$64,383	\$37,495	\$172,539	\$133,262	\$46,983	\$24,017	\$478,680	\$71,593	\$49,952	\$22,426	\$37,868	\$21,575	\$3,794	\$38,999	\$207,209		
TOTAL COST IRIGARAY AND CHRISTENSEN																\$685,889	

**CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL**

Area (Ft²)	8020	7100	17600	18400	5600	3600		9600	0	1800	5240	0	1000	6240		
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	0.5		
Volume (Ft³)	4010	3550	8800	9200	5600	1800		4800	0	900	2620	0	500	3120		
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%	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%	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	\$0.134		
Decontamination Cost	\$0	\$0	\$1,769	\$1,849	\$300	\$362	\$4,280	\$965	\$0	\$241	\$702	\$0	\$0	\$0		\$1,908
Demolition (\$/Ft²)	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80		\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80		
Demolition Cost	\$6,416	\$5,680	\$14,080	\$14,720	\$4,480	\$2,880	\$48,256	\$7,680	\$0	\$1,440	\$4,192	\$0	\$800	\$4,992		\$14,112
Transportation & Disposal																
A. Onsite Disposal																
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	100%		
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Disposal Cost per Cubic Foot	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330		\$0.330	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330		
Disposal Cost (\$)	\$1,323	\$1,172	\$2,614	\$2,732	\$739	\$535	\$9,115	\$1,426	\$0	\$297	\$865	\$0	\$165	\$1,030		\$2,752
B. Licensed Site																
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	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	\$2,100		
Transportation Cost (\$)	\$0	\$0	\$3,422	\$3,578	\$13,067	\$700	\$20,767	\$1,867	\$0	\$0	\$0	\$0	\$0	\$0		\$1,867
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	\$3.70		
Quantity Per Truck Load (Yds³)	20	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	540		
Disposal Cost (\$)	\$0	\$0	\$3,259	\$3,407	\$12,444	\$667	\$19,778	\$1,778	\$0	\$0	\$0	\$0	\$0	\$0		\$1,778
TOTAL COST	\$7,739	\$6,852	\$25,144	\$26,287	\$31,030	\$5,143	\$102,195	\$13,715	\$0	\$1,978	\$5,759	\$0	\$965	\$6,022		\$22,417
<b>TOTAL COST IRIGARAY AND CHRISTENSEN</b>																

**SOIL REMOVAL & DISPOSAL**

Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.																
Removal with Loader (\$116/hr)	\$101															
Quantity to be Shipped (Ft³)	0	0	4400	4600	1400	900	\$4,240	\$901	\$0	\$0	\$492	\$0	\$0	\$0		\$1,392
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	\$2,100		
Transportation Cost (\$)	\$0	\$0	\$17,111	\$17,889	\$5,444	\$3,500	\$43,944	\$9,333	\$0	\$0	\$5,094	\$0	\$0	\$0		\$14,428
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		
Quantity per Truckload (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	540		
Disposal Cost (\$)	\$0	\$0	\$16,296	\$17,037	\$5,185	\$3,333	\$41,852	\$8,889	\$0	\$0	\$4,852	\$0	\$0	\$0		\$13,741
Removal, NPDES Pts.																
Quantity to be Shipped (Ft³)			559					5,030								
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	\$2,100		



Uranium One USA, Inc.  
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	Irigaray							Christensen							Sub Total
	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	Misc Buildings	
Transportation Cost (\$)	\$0	\$0	\$2,174	\$0	\$0	\$0	\$2,174	\$19,562	\$0	\$0	\$0	\$0	\$0	\$0	\$19,562
Guideline 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	
Quantity per Truckload (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$2,070	\$0	\$0	\$0	\$2,070	\$18,630	\$0	\$0	\$0	\$0	\$0	\$0	\$18,630
Total Cost	\$0	\$0	\$39,302	\$36,652	\$11,155	\$7,171	\$94,280	\$57,314	\$0	\$0	\$10,438	\$0	\$0	\$0	\$67,752
TOTAL COST	\$0	\$0	\$39,302	\$36,652	\$11,155	\$7,171	\$94,280	\$57,314	\$0	\$0	\$10,438	\$0	\$0	\$0	\$67,752
TOTAL COST IRIGARAY AND CHRISTENSEN															\$162,032

RADIATION SURVEY															
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.04	0.12	0.00	0.02	0.14	
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	\$520.00	
TOTAL SURVEY COST (\$)	\$96		\$210	\$220	\$67	\$43	\$636	\$115	\$0	\$21	\$63	\$0	\$12	\$74	\$211

TOTAL COST	\$72,218	\$44,347	\$237,195	\$196,421	\$89,235	\$36,375	\$675,791	\$142,737	\$49,952	\$24,425	\$54,128	\$21,575	\$4,771	\$45,094	\$342,683
TOTAL COST IRIGARAY AND CHRISTENSEN															\$1,018,474

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	Pearmeate Pond
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	20,809	20,809	20,809	20,909	-
Volume of Sludge (Ft³)		7,907		7,907		10,047	10,047	3,466	4,651	2,983	1,414	0
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	\$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		\$2,100		\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost (\$)		\$30,870		\$30,870		\$39,060	\$39,060	\$13,440	\$18,060	\$11,550	\$5,460	\$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	\$118,188	\$0	\$118,188	\$0	\$149,544	\$149,544	\$51,456	\$69,144	\$44,220	\$20,904	\$0
TOTAL SLUDGE COST (\$)	\$0	\$121,716	\$0	\$121,716	\$0	\$154,008	\$154,008	\$52,992	\$71,208	\$45,540	\$21,528	\$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	0.0025	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%	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 (\$)		\$146		\$146		\$146	\$146	\$146	\$146	\$146	\$146	\$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 (\$)		\$292.64		\$292.64		\$292.64	\$292.64	\$292.64	\$292.64	\$292.64	\$292.64	\$0.00
Total Liner Handling Cost (\$)	\$0	\$146	\$0	\$907	\$0	\$1,141	\$205	\$702	\$88	\$88	\$88	\$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		\$2,100		\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost (\$)		\$1,050		\$6,510		\$8,190	\$1,470	\$5,040	\$630	\$630	\$630	\$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	\$4,020	\$0	\$24,924	\$0	\$31,356	\$5,628	\$19,296	\$2,412	\$2,412	\$2,412	\$0
TOTAL LINER COST (\$)	\$0	\$4,166	\$0	\$25,831	\$0	\$32,497	\$5,833	\$19,998	\$2,500	\$2,500	\$2,500	\$0
POND BACKFILL:												
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	9048	18070
Backfill Cost (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87
TOTAL BACKFILL COST (\$)	\$7,604	\$7,465	\$7,604	\$7,465	\$2,190	\$12,717	\$14,198	\$7,872	\$7,872	\$7,872	\$7,872	\$15,721
RADIATION SURVEY												
Areal required (acres)	0.00	1.72	0.00	1.72	2.90	2.17	1.10	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	\$0	\$894	\$0	\$1,508	\$1,128	\$572	\$572	\$572	\$572	\$0
LEAK DETECTION SYSTEM REMOVAL												
Volume of Gravel and Piping (Ft³) (Assume 3")								5,250	5,250			
Quantity per Truckload (Ft³)								540	540			
Quantity to be Shipped to Licensed Site (Loads)								10	10			
Transportation Cost per Truckload								\$2,100	\$2,100			
Transportation Cost (\$)								\$20,000	\$20,000			
Total Handling Cost per load								\$2,845	\$2,845			
Disposal Fee per Cubic Foot (\$)								\$11	\$11			
Disposal Cost (\$)								\$57,750	\$57,750			
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80,595	\$80,595	\$0	\$0	\$0
TOTAL POND RECLAMATION COST	\$7,604	\$134,241	\$7,604	\$155,906	\$2,190	\$200,730	\$175,167	\$162,029	\$162,747	\$56,484	\$32,472	\$15,721
Guideline 12 costs were updated using Oct. 2013 version.												

SUMMARY - IRIGARAY:

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

\$551,448  
\$68,327  
\$59,243  
\$4,424  
\$0  
\$683,442

SUMMARY - CHRISTENSEN:

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

\$191,268  
\$27,498  
\$47,209  
\$2,288  
\$161,190  
\$429,453

TOTAL PROJECT COST - CR and IR (\$)

\$1,112,895



Uranium One USA, Inc.  
2014-2015 Restoration and Reclamation Costs  
Wyoming Operations  
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	#10	#11	
Number of Wells	0	11		11										
Production / Injection Wells ( Inclusive of Misc. Baseline / Regional Wells)					286	443	211	322	380	556	780	734	6	2978
Monitor Wells (Shallow, Deep, Perimeter)					50	47	33	72	64	66	76	83	0	408
Total					336	490	244	394	444	622	856	817	6	4209
Average Depth	250	250	250		345	300	430	450	520	550	375	500	500	
Average Diameter	4.5	4.5	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	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	15.0	
Cost Per Bag (\$)	\$4.70	\$4.70	\$4.70		\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	
Cost/Well Bentonite Chips (\$)	\$70.50	\$70.50	\$70.50		\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	
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	24.9	25.9	26.9	
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	0.92	0.96	1.00	
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	\$21.00	\$22.00	
Cost/Well Gravel Fill (\$)	\$11.63	\$11.63	\$11.63		\$19.63	\$15.93	\$26.59	\$28.22	\$33.93	\$36.37	\$18.44	\$20.14	\$21.92	
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	2.0	3.0	
Cost of Cement Cones/Markers (\$)	\$10.00	\$10.00	\$10.00		\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	
Total Materials Cost per Well	\$92.13	\$92.13	\$92.13		\$100.13	\$96.43	\$107.09	\$108.72	\$114.43	\$116.87	\$98.94	\$100.64	\$102.42	
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	2.0	3.0	
Labor Cost per Hour	\$45.00	\$45.00	\$45.00		\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	
Total Labor Cost per Well (\$)	\$45.00	\$45.00	\$45.00		\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$90.00	\$135.00	
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	1.0	1.0	
Backhoe w/Operator Cost/Hr (\$)	\$48.47	\$48.47	\$48.47		\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	
Total Equipment Cost per Well (\$)	\$48.47	\$48.47	\$48.47		\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	\$48.47	
Total Cost per Well (\$)	\$185.60	\$185.60	\$185.60		\$193.60	\$189.90	\$200.56	\$202.19	\$207.90	\$210.34	\$192.41	\$239.11	\$285.89	
										\$72,485				
TOTAL WELL ABANDONMENT COST (\$)	\$0	\$2,042	\$0	\$2,042	\$65,049	\$93,049	\$48,937	\$79,664	\$92,306	\$130,832	\$164,707	\$195,357	\$1,715	\$871,616
GRAND TOTAL IRIGARAY AND CHRISTENSEN														\$873,657

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

	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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
<b>I Wellfield Piping</b>									
<b>A. Removal</b>									
Length/Well (Ft)	100	300	300	300	500	800	800	800	
Total Number of Wells	602	940	322	380	556	780	734	6	
Total Quantity (Ft)	60200	282000	96600	114000	278000	624000	587200	4800	
Cost of Removal (\$/Ft)	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	
Cost of Removal (\$)	\$12,160	\$56,964	\$19,513	\$23,028	\$56,156	\$126,048	\$118,614	\$970	\$413,454
Average OD (Inches)	3.0	3.0	3.0	3.0	3.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	963	4,512	1,546	1,824	4,448	9,984	9,395	77	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	1.8	8.4	2.9	3.4	8.2	18.5	17.4	0.1	
<b>B. Survey &amp; Decontamination</b>									
Percent Requiring Decontamination	0%	0%	0%	0%	0%	0%	0%	0%	
Loads for Decontamination	0.0	0.0	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	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>b. Disposal</b>									
Disposal Fee Per Yd³	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Cost - Landfill	\$0	\$0	\$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%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.8	8.4	2.9	3.4	8.2	18.5	17.4	0.1	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$3,780	\$17,640	\$6,090	\$7,140	\$17,220	\$38,850	\$36,540	\$210	\$127,470
<b>b. Disposal</b>									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$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	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$10,692	\$49,896	\$17,226	\$20,196	\$48,708	\$109,890	\$103,356	\$594	\$360,558
Total Cost - Licensed Site	\$14,472	\$67,536	\$23,316	\$27,336	\$65,928	\$148,740	\$139,896	\$804	\$488,028
Total Cost - Transport & Disposal	\$14,472	\$67,536	\$23,316	\$27,336	\$65,928	\$148,740	\$139,896	\$804	\$488,028
<b>Total Cost - WF Piping Removal &amp; Disposal</b>	<b>\$26,632</b>	<b>\$124,500</b>	<b>\$42,829</b>	<b>\$50,364</b>	<b>\$122,084</b>	<b>\$274,788</b>	<b>\$258,510</b>	<b>\$1,774</b>	<b>\$901,482</b>
<b>II Production Well Pumps</b>									
<b>A. Pump and Tubing Removal</b>									
Number of Production Wells	0	348	134	178	167	264	281	6	
Cost of Removal (\$/well)	\$60.18	\$60.18	\$60.18	\$60.18	\$60.18	\$60.18	\$60.18	\$60.18	
Cost of Removal (\$)	\$0	\$20,941	\$8,063	\$10,711	\$10,049	\$15,886	\$15,706	\$361	\$81,718
Number of Pumps Per Truck Load	180	180	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.9	0.7	1.0	0.9	1.5	1.5	0.0	
<b>B. Survey &amp; Decontamination (Pumps)</b>									
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads for Decontamination	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$435	\$174	\$218	\$218	\$348	\$348	\$0	\$1,740
<b>C. Tubing Volume Reduction &amp; Loading</b>									
Length per Well (Ft)	100	300	300	450	500	230	500	500	
Total Quantity (Ft)	0	104,400	40,200	80,100	83,500	60,720	130,500	3,000	
Cost of Removal (\$/Ft)	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	
Cost of Removal (\$)	\$0	\$2,610	\$1,005	\$2,003	\$2,088	\$1,518	\$3,263	\$75	\$12,561
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	0	1,670	643	1,282	1,336	972	2,088	48	



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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	0.0	3.1	1.2	2.4	2.5	1.8	3.9	0.1	
D. Transport & Disposal									
Guideline 1.) Landfill									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads To Be Shipped	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Transportation Cost per Load	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	
Transportation Cost (\$)	\$0	\$1,184	\$474	\$592	\$592	\$947	\$947	\$0	\$4,736
b. Disposal									
Disposal Fee Per Yd³	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$1,184	\$474	\$592	\$592	\$947	\$947	\$0	\$4,736
Total Cost - Landfill	\$0	\$2,368	\$947	\$1,184	\$1,184	\$1,894	\$1,894	\$0	\$9,472
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	4.0	1.5	2.9	2.9	2.5	4.6	0.1	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$8,491	\$3,236	\$6,034	\$6,141	\$5,353	\$9,695	\$187	\$39,137
b. Disposal									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$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	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$24,017	\$9,154	\$17,068	\$17,369	\$15,142	\$27,423	\$528	\$110,701
Total Cost - Licensed Site	\$0	\$32,508	\$12,391	\$23,102	\$23,510	\$20,495	\$37,118	\$715	\$149,838
Total Cost - Transport & Disposal	\$0	\$34,876	\$13,338	\$24,286	\$24,694	\$22,389	\$39,012	\$715	\$159,310
Total Cost - Pump Removal & Disposal	\$0	\$58,862	\$22,580	\$37,217	\$37,048	\$40,141	\$58,329	\$1,151	\$255,328
III Surface Trunkline Piping									
A. Removal									
Total Quantity (Ft)	0	0	0	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	
Cost of Removal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Average OD (Inches)	8.750	8.750	0.000	0.000	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	0.088	0.088	
Chipped Volume (Ft³)	0	0	0	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	0.0	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%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	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	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd³	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$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%	100.0%	100.0%	
Loads To Be Shipped	0.0	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	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$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	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
<b>WELLFIELD EQUIPMENT REMOVAL &amp; DISPOSAL</b>									
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Recirculation Phase \$0.863 per Kgal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Surface Trunkline Removal & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>IV Buried Trunkline</b>									
<b>A. Removal</b>									
Total Quantity (Ft)	0	11565	24500	47000	28500	49436	35636	0	
Cost of Removal (\$/Ft)	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	
Cost of Removal (\$)	\$0	\$36,083	\$76,440	\$146,640	\$88,920	\$154,240	\$111,184	\$0	\$613,507
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	14.000	14.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.130	0.130	0.130	0.152	0.152	
Chipped Volume (Ft³)	0	1018	2156	6110	3705	6426.68	5416.672	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	0.0	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
<b>B. Survey &amp; Decontamination</b>									
Percent Requiring Decontamination	0.0%	0.0%	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	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>b. Disposal</b>									
Disposal Fee Per Yd³	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$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%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$3,990	\$8,400	\$23,730	\$14,490	\$24,990	\$21,000	\$0	\$96,600
<b>b. Disposal</b>									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$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	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$11,286	\$23,760	\$67,122	\$40,986	\$70,686	\$59,400	\$0	\$273,240
Total Cost - Licensed Site	\$0	\$15,276	\$32,160	\$90,852	\$55,476	\$95,676	\$80,400	\$0	\$369,840
Total Cost - Transport & Disposal	\$0	\$15,276	\$32,160	\$90,852	\$55,476	\$95,676	\$80,400	\$0	\$369,840
Total Cost - Buried Trunkline Removal & Disposal	\$0	\$51,359	\$108,600	\$237,492	\$144,396	\$249,916	\$191,584	\$0	\$983,347
<b>V Manholes</b>									
<b>A. Removal</b>									
Total Quantity	0	8	5	11	5	15	11	0	
Cost of Removal (\$ Each)	\$117.00	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	
Cost of Removal (\$)	\$0	\$1,196	\$748	\$1,645	\$748	\$2,243	\$1,645	\$0	\$8,223
Quantity Per Truck Load	10	10	10	10	10	10	10	10	
Number of Truck Loads	0.0	0.8	0.5	1.1	0.5	1.5	1.1	0.0	
<b>B. Survey &amp; Decontamination</b>									
Percent Requiring Decontamination	0.0%	0.0%	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	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	\$1,184	



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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd <sup>3</sup> (\$)	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	\$59.20	
Yds <sup>3</sup> Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$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%	0.0%	
Loads To Be Shipped	0.0	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	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Cost Per Ft <sup>3</sup>	\$11.00	\$11.00	\$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	\$297.00	\$297.00	
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Transport & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost Manhole Removal & Disposal	\$0	\$1,196	\$748	\$1,645	\$748	\$2,243	\$1,645	\$0	\$8,223
<b>TOTAL COST - WELLFIELD EQUIP REMOVAL &amp; DISP</b>	<b>\$26,632</b>	<b>\$235,917</b>	<b>\$174,757</b>	<b>\$326,717</b>	<b>\$304,275</b>	<b>\$567,088</b>	<b>\$510,068</b>	<b>\$2,924</b>	<b>\$2,148,380</b>

	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	Christensen Mine Unit #10	Christensen Mine Unit #11	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	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	8067	4033	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	
Topsoil Handling Cost (\$)	\$7,018	\$3,509	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	
Grading Cost (\$)	\$417	\$208	\$417	\$417	\$417	\$417	\$417	\$0	
Sub Total - Topsoil	\$7,435	\$3,717	\$417	\$417	\$417	\$417	\$417	\$0	\$13,235
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$2,600	\$1,300	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$0	\$16,900
C. Revegetation									
Fertilizer (\$/Ac)	\$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	
Mulching & Crimping (\$/Ac)	\$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	
Sub Total - Revegetation	\$3,015	\$1,508	\$3,015	\$3,015	\$3,015	\$3,015	\$3,015	\$0	\$19,598
Sub Total - Process Plant and Office Bldg.	\$13,050	\$6,525	\$6,032	\$6,032	\$6,032	\$6,032	\$6,032	\$0	\$49,733
<b>II Ponds</b>									
A. Topsoil Handling & Grading									
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	0	0	
Topsoil Volume (Yds³)	32267	19360	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	
Topsoil Handling Cost (\$)	\$28,072	\$16,843	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	
Grading Cost (\$)	\$1,666	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$29,738	\$17,843	\$0	\$0	\$0	\$0	\$0	\$0	\$47,581
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$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	\$16,640
C. Revegetation									
Fertilizer (\$/Ac)	\$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	
Mulching & Crimping (\$/Ac)	\$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	
Sub Total - Revegetation	\$12,061	\$7,236	\$0	\$0	\$0	\$0	\$0	\$0	\$19,297
Sub Total - Ponds	\$52,199	\$31,319	\$0	\$0	\$0	\$0	\$0	\$0	\$83,518
<b>III Wellfields</b>									
A. Topsoil Handling & Grading									
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	35.0	0.0	
Average Affected Thickness (Ins)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Topsoil Volume (Yds³)	18822	25881	14117	23528	16469	18822	16469	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	
Topsoil Handling Cost (\$)	\$16,375	\$22,516	\$12,282	\$20,469	\$14,328	\$16,375	\$14,328	\$0	
Unit Cost - Grading (\$/Ac)	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	
Grading Cost (\$)	\$3,332	\$4,582	\$2,499	\$4,166	\$2,916	\$3,332	\$2,916	\$0	
Sub Total - Topsoil	\$19,708	\$27,098	\$14,781	\$24,635	\$17,244	\$19,708	\$17,244	\$0	\$140,418
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$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	\$26,000	\$18,200	\$20,800	\$18,200	\$0	\$148,200
C. Spill Cleanup									
Affected Area (Acres)		0.036	0	0	0	0	0.10	0	
Affected Area (ft²)		1,568	0	0	0	0	4529	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	0	0	
Affected Volume (ft³)		392	0	0	0	0	0	0	
Quantity per Truckload (ft³)		540	540	540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	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 (\$)		\$1,524	\$0	\$0	\$0	\$0	\$0	\$0	
Handling Cost (\$240/load)		\$174	\$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	
Disposal Cost (\$)		\$1,452	\$0	\$0	\$0	\$0	\$0	\$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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
<b>TOPSOIL REPLACEMENT &amp; REVEGETATION</b>									
Sub Total - Spill Cleanup	\$0	\$3,151	\$0	\$0	\$0	\$0	\$0	\$0	\$3,151
D. Revegetation									
Fertilizer (\$/Ac)	\$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	
Mulching & Crimping (\$/Ac)	\$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	
Sub Total - Revegetation	\$24,121	\$33,167	\$18,091	\$30,152	\$21,106	\$24,121	\$21,106	\$0	\$171,864
Sub Total - Wellfields (\$)	\$64,629	\$92,015	\$48,472	\$80,786	\$56,550	\$64,629	\$56,550	\$0	\$463,632
<b>IV Roads</b>									
A. Topsoil Handling & Grading									
Affected Area (Acres)	25.0	20.0	15.0	21.0	12.0	15.0	10.0	0.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	12	12	
Topsoil Volume (Yds³)	40333	32267	24200	33880	19360	24200	16133	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	
Topsoil Handling Cost (\$)	\$35,090	\$28,072	\$21,054	\$29,476	\$16,843	\$21,054	\$14,036	\$0	
Unit Cost - Grading (\$/Ac)	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	
Grading Cost (\$)	\$2,083	\$1,666	\$1,250	\$1,750	\$1,000	\$1,250	\$833	\$0	
Sub Total - Topsoil	\$37,173	\$29,738	\$22,304	\$31,225	\$17,843	\$22,304	\$14,869	\$0	\$175,455
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$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	\$5,200	\$0	\$61,360
C. Revegetation									
Fertilizer (\$/Ac)	\$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	
Mulching & Crimping (\$/Ac)	\$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	
Sub Total - Revegetation	\$15,076	\$12,061	\$9,045	\$12,664	\$7,236	\$9,045	\$6,030	\$0	\$71,158
Sub Total - Roads (\$)	\$65,249	\$52,199	\$39,149	\$54,809	\$31,319	\$39,149	\$26,099	\$0	\$307,973
<b>V Other</b>									
A. Topsoil Handling & Grading									
Affected Area (Acres)	41.0	19.0	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	0	0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	\$0.87	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	\$83.31	
Grading Cost (\$)	\$3,416	\$1,583	\$417	\$417	\$417	\$417	\$417	\$0	
Sub Total - Topsoil	\$3,416	\$1,583	\$417	\$417	\$417	\$417	\$417	\$0	\$7,081
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$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	\$2,600	\$0	\$44,200
C. Revegetation									
Fertilizer (\$/Ac)	\$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	
Mulching & Crimping (\$/Ac)	\$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	
Sub Total - Revegetation	\$24,724	\$11,458	\$3,015	\$3,015	\$3,015	\$3,015	\$3,015	\$0	\$51,258
Sub Total - Other	\$49,460	\$22,920	\$6,032	\$6,032	\$6,032	\$6,032	\$6,032	\$0	\$102,539
<b>VI Remedial Action</b>									
A. Topsoil Handling & Grading									
Affected Area (Acres)	65.5	54.3	27.5	40.5	28.5	32.5	27.5	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Grading Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$0	\$0	\$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	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$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	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$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	

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
TOPSOIL REPLACEMENT & REVEGETATION									
Sub Total - Revegation	\$39,498	\$32,714	\$16,583	\$24,423	\$17,186	\$19,598	\$16,583	\$0	\$166,587
Sub Total - Remedial Action	\$39,498	\$32,714	\$16,583	\$24,423	\$17,186	\$19,598	\$16,583	\$0	\$166,587
TOTAL COST - TOPSOIL & REVEGETATION	\$284,084	\$237,693	\$116,268	\$172,081	\$117,119	\$135,440	\$111,296	\$0	\$1,173,982



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MISCELLANEOUS RECLAMATION	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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
<b>I Fence Removal &amp; Disposal</b>									
Quantity (Feet)	15240	35260	20000	9000	18000	19300	19548	0	
Cost of Removal/Disposal (\$/Ft)	\$0.38	\$0.38	\$0.38	\$0.38	\$0.38	\$0.38	\$0.38	\$0.38	
Cost of Removal/Disposal (\$)	\$5,791	\$13,399	\$7,600	\$3,420	\$6,840	\$7,334	\$7,428	\$0	\$51,812
<b>II Powerline Removal &amp; Disposal</b>									
Quantity (Feet)	9450	10565	18000	18000	5500	21990	13136	0	
Cost of Removal/Disposal (\$/Ft)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>III Powerpole Removal &amp; Disposal</b>									
Quantity	25	30	60	60	19	74	44	0	
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>IV Transformer Removal &amp; Disposal</b>									
Quantity	0	1	0	0	18	27	18	0	
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$0	\$0	\$0	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>V Booster Pump Assembly Removal &amp; Disposal</b>									
Quantity	0	6	5	5	12	16	12	0	
Cost of Removal/Disposal (\$/Each)	\$248	\$248	\$248	\$248	\$248	\$248	\$248	\$248	
Cost of Removal/Disposal (\$)	\$0	\$1,488	\$1,240	\$1,240	\$2,976	\$3,968	\$2,976	\$0	\$13,888
<b>VI Culvert Removal &amp; Disposal</b>									
Quantity (Feet)	150	1200	1000	1000	500	20	20	0	
Cost of Removal/Disposal (\$/Ft)	\$6.04	\$6.04	\$6.04	\$6.04	\$6.04	\$6.04	\$6.04	\$6.04	
Cost of Removal/Disposal (\$)	\$905	\$7,244	\$6,037	\$6,037	\$3,018	\$121	\$121	\$0	\$23,482
<b>VII Guardrail Removal</b>									
Quantity (Feet)	200	3000	0	0	0	0	0	0	
Cost of Removal/Disposal (\$/Ft)	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	
Cost of Removal/Disposal (\$)	\$1,288	\$19,320	\$0	\$0	\$0	\$0	\$0	\$0	\$20,608
<b>VIII Low Water Stream Crossing</b>									
Quantity	0	1	1	0	0	0	0	0	
Cost of Removal/Disposal (\$/Each)	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	
Cost of Removal/Disposal (\$)	\$0	\$4,500	\$4,500	\$0	\$0	\$0	\$0	\$0	\$9,000
<b>IX Utilities Cost</b>									
Quantity (Mos)	0	8	4	4	4	4	4	0	
Power (\$/Month)	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	
Telephone (\$/Month)	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
Total Cost (\$)	\$0	\$4,520	\$2,260	\$2,260	\$2,260	\$2,260	\$2,260	\$0	\$15,820
<b>TOTAL MISCELLANEOUS COST</b>	<b>\$7,985</b>	<b>\$50,471</b>	<b>\$21,637</b>	<b>\$12,957</b>	<b>\$15,094</b>	<b>\$13,683</b>	<b>\$12,785</b>	<b>\$0</b>	<b>\$134,610</b>

