

COLORADO OFFICE

10758 W. CENTENNIAL RD., STE. 200
LITTLETON, CO 80127
TEL: (866) 981-4588
FAX: (720) 981-5643



WYOMING OFFICE

5880 ENTERPRISE DR., STE. 200
CASPER, WY 82609
TEL: (307) 265-2373
FAX: (307) 265-2801

LOST CREEK ISR, LLC

March 13, 2014

ATTN: Document Control Desk
Director, Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Washington D.C. 20555-0001

**Re: Response to February 21, 2014 Surety Comments
License Number SUA-1598, Docket 40-9068**

Dear Director,

On February 21, 2014 the NRC issued a letter seeking additional information on the proposed surety for the Lost Creek Project. Please find below the responses to the RAIs.

Response 8 – Lost Creek ISR, LLC (“LCI”) reviewed the cost estimate to decommission the processing plant to ensure its adequacy. A few additional pieces of equipment were added to the “Equipment and Tank List” spreadsheet, however, this did not substantially increase the surety. The previous errors corrected by LCI were simply formula errors. LCI wishes to point out that the cost estimate, without manpower or contingency, to decommission the plant is \$893,805 for structural demolition (Worksheet 3) and \$42,753 (Worksheet 2) for removal of tankage and equipment. This results in a total cost estimate of \$936,558. The justification for the cost estimate is provided in considerable detail in the provided spreadsheets. If NRC would like additional details on a specific line item, LCI will be glad to provide it. However, LCI is not familiar with surety calculation methods utilized by other companies or their facilities and therefore cannot speculate on the basis of their respective cost estimates.

Response 11 – It has been the experience of LCI staff, who have worked at various other in situ operations, that the number of monitor well clusters is determined by the surface area of the wellfield and not the summed area of each sub-horizon. In order to respond to this item without relying solely on operational experience, LCI researched various publicly available documents to determine how wellfield acreage should be calculated. LCI license condition 11.3 A and C require the installation of ore zone monitor wells at a density of “...one production or injection well per 4 acres” and overlying and underlying monitor wells at a minimum density of “... one well per 4 acres of production area” respectively. NUREG 1569, on page 5-39, requires a minimum of one “well per acre in each wellfield.” The Uranerz Mine Unit Package states their monitor well density was based on acres of pattern area. Unfortunately, none of these examples provide detail on how the wellfield area is determined.

Lost Creek ISR, LLC is a wholly-owned subsidiary of Ur-Energy Inc.

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With regard to production zone monitor wells, LCI believes that since the sub-horizons are in the same aquifer and are in direct hydraulic communication with each other, there is no benefit to installing and collecting additional baseline water quality data. It would only make sense to install production monitor wells at a minimum rate of one per four acres of sub-horizon if the sub-horizons were chemically or hydrologically unique. The sub-horizons at Lost Creek were loosely defined by company Geologists simply to catalog mineralization without regard to hydrogeology. In other words, the sub-horizons were selected somewhat arbitrarily.

With regard to overlying and underlying monitor well clusters, LCI contends the method for calculating the wellfield area should be based on the surface area. In support of this position, suppose there are eight sub-horizons of 1 acre each that are stacked directly over each other. Utilizing the sub-horizon method to determine the area would result in eight acres of area which would require two overlying and underlying monitor well clusters even though there is only 1 acre of wellfield in plan view. This is a density of 2 clusters per acre. On the other hand, determining the area based on the surface area will result in a minimum density of one cluster per four acres regardless of the degree of stacking. There is no reason to double count stacked acreage when we are attempting to protect the aquifers overlying and underlying the production zone.

The actual pattern area of LCI's MU1 is 47.98 acres which, using the surface area method, requires 12 monitor well clusters. Since LCI has 13 clusters, the density is sufficient.

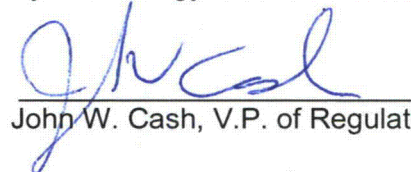
Response 12 – LCI will provide additional information pertaining to this item in the next surety update per NRC's request.

Response 14 – LCI understands NRC's concerns regarding water treatment/disposal capacity and has recalculated the surety based on the disposal rate of the two existing deep wells. This new calculation has substantially increased the length of time required to restore the mine units. Man power, electrical, and equipment costs were also updated to reflect the increase in time.

Surety has been left in place to plug and abandon three deep wells since a third well may be installed in 2014.

If you have any questions regarding please feel free to contact me at (307) 265-2373.

Sincerely,
Lost Creek ISR, LLC
By: Ur-Energy USA Inc., Manager



John W. Cash, V.P. of Regulatory Affairs, Exploration and Geology

Cc: Mr. Mark Satorius, Director
Office of Federal and State Materials and Environmental Management Programs
Mrs. Theresa Horne, Ur-Energy, Littleton
Mr. John Saxton, NRC, Rockville, via e-mail

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE			
I GROUNDWATER RESTORATION - Worksheet 1			\$6,984,320
II DECOMMISSIONING AND SURFACE RECLAMATION			\$3,321,974
A. Plant Equipment Removal and Disposal - Worksheet 2			\$42,753
B. Plant Building Demolition and Disposal - Worksheet 3			\$1,035,188
C. Storage Pond Sludge and Liner Handling - Worksheet 4			\$28,663
D. Well Abandonment - Worksheet 5			\$370,264
E. Wellfield Equipment Removal and Disposal - Worksheet 6			\$1,407,518
F. Topsoil Replacement and Revegetation - Worksheet 7			\$328,020
G. Miscellaneous Reclamation Activities - Worksheet 8			\$109,568
SUBTOTAL RESTORATION AND RECLAMATION			\$10,306,294
III TOTAL CONTINGENCY			\$2,988,825
Miscellaneous Items (Footnote 1)	25%	=	\$2,576,573
Project Design			
Contractor Profit & Mobilization			
Pre-Construction Investigation			
Project Management			
On-Site Monitoring			
Site Security & Liability Assurance			
Longterm Administration			
Contingency (Footnote 2)	4%	=	\$412,252
TOTAL RESTORATION AND RECLAMATION			\$13,296,000

Footnote 1: In accordance with WDEQ-LQD Guideline 12, Section II, B, 12.

Footnote 2: In accordance with WDEQ-LQD Guideline 12, Section II, B, 13.

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1

Assumptions/Items	Mine Unit No. 1	Explanation	Source
Technical Assumptions:			
Wellfield Area (Square Feet)	2,151,477	Proposed area	Data
Wellfield Area (Acres)	49.39		Calculated
Affected Ore Zone Area (Square Feet)	2,151,477	Proposed area affected	Data
Average Completed Thickness (Feet)	16.9	Proposed thickness	Data
Affected Volume:			
Factor For Vertical Flare	20%	Vertical flare estimate	Estimated
Factor For Horizontal Flare	20%	Horizontal flare estimate	Estimated
Total Volume (Cubic Feet)	52,358,344	= Area * Thickness * Vertical flare * Horizontal flare	Calculated
Porosity	26.0%	Typical value for host sand	Data
Gallons Per Cubic Foot	7.48	Conversion factor	Constant
Gallons Per Pore Volume	101,826,508	= Volume * Porosity * gal/ft ³	Calculated
Number of Wells in Unit(s)			
Production Wells	282	Actual well count	Data
Injection Wells	523	Actual well count	Data
Average Well Spacing (Feet)	95	Actual well spacing	Data
Average Well Depth (Feet)	413	Actual well depth	Data

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
I GROUNDWATER SWEEP			
A. PLANT & OFFICE			
Operating Assumptions:			
Flow Rate (Gallons per Minute)	47	Planned flow	Data
Pore Volumes Required	0.3		Data
Total Gallons For Treatment	30,547,952	= Gallons per Pore Volume * Number of Pore Volumes	Calculated
Total Kilogallons for Treatment	30,548		Calculated
Cost Assumptions:			
RO Power			
Average Connected Horsepower	0	Proposed pump horsepower	Data
Kilowatt-hours per Horsepower	0.746		Conversion Factor
Cost per Kilowatt-hour	\$0.084	Based on latest invoice of 2013	Unit Rate
Gallons per Minute	47	Planned rate	Data
Gallons per Hour	2820		Calculated
Cost per Hour	\$0.00		Calculated
Cost per Gallon	\$0.00000		Calculated
Cost per Kilogallon	\$0.000		Calculated
Chemicals			
Antiscalent (Cost per Kilogallon)	:\$0.121:	Based on required dosage/estimated cost	Unit Rate
Repair & Maintenance (Cost per Kilogallon)	:\$0.035:	Estimate	Unit Rate
Analysis (Cost per Kilogallon)	\$1.24	From Table RP-5	Unit Rate

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
I GROUNDWATER SWEEP (continued)			
A. PLANT & OFFICE (continued)			
Total Cost per Kilogallon	\$1.401		Calculated
Total Treatment Cost	\$42,783		Calculated
Utilities			
Office Power (Cost per Month)	\$227	Estimate	Unit Rate
Propane (Cost per Month)	\$227	Estimate	Unit Rate
Time for Treatment			
Minutes for Treatment	649,956	=Total Gallons for Treatment Divided by Flow Rate (gpm)	Calculated
Hours for Treatment	10,833		Calculated
Days for Treatment	451		Calculated
Average Days per Month	30.4		Calculated
Months for Treatment	14.8		Calculated
Utilities Cost	\$6,751		Calculated
TOTAL PLANT & OFFICE COST	\$49,534		

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
I GROUNDWATER SWEEP (continued)			
B. WELLFIELD			
Cost Assumptions:			
Power			
Average Flow per Pump (Gallons per Minute)	32	Estimate from pumping	Data
Average Horsepower per Pump	7.50	Estimate from pumping	Data
Average Number of Pumps Required	1.5	Estimate from pumping	Data
Average Connected Horsepower	16.0	Pumps plus 5 horsepower for HH	Data
Kilowatt-hours per Horsepower	0.746		Conversion Factor
Cost per Kilowatt-hour	\$0.084	Based on latest invoice from 2013	Unit Rate
Gallons per Minute	47	Planned flow	Data
Gallons per Hour	2820		Calculated
Cost per Hour	\$1.00		Calculated
Cost per Gallon	\$0.0004		Calculated
Cost per Kilogallon	0.356		Calculated
Repair & Maintenance (Cost per Kilogallon)	\$0.116	Estimate	Unit Rate
Total Cost per Kilogallon	\$0.472		Calculated
TOTAL WELLFIELD COST	\$14,423	Not Applicable, No restoration required	Calculated
TOTAL GROUNDWATER SWEEP COST	\$63,958	Not Applicable, No restoration required	Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
II REVERSE OSMOSIS			
A. PLANT & OFFICE			
Operating Assumptions:			
Flow Rate (Gallons per Minute)	470	Estimate from pumping	Data
Pore Volumes Required	6.0		Data
Total Gallons for Treatment	610,959,048	= Gallons per Pore Volume * Number of Pore Volumes	Calculated
Total Kilogallons for Treatment	610,959	= Total Gallons / 1000	Calculated
Feed to Reverse Osmosis Unit (Gallons per Minute)	470	Planned flow	Data
Permeate Flow (Gallons per Minute)	423	= Planned Flow * Average Reverse Osmosis Recovery	Calculated
Brine Flow (Gallons per Minute)	47	= Planned Flow - Permeate Flow	Calculated
Average Reverse Osmosis Recovery	90.0%	Reverse Osmosis Design	Data
Cost Assumptions:			
Power			
Average Connected Horsepower	150	RO feed horsepower	Data
Kilowatt-hours per Horsepower	0.746		Conversion Factor
Cost per Kilowatt-hour	\$0.084	Based on latest invoice of 2013	Unit Rate
Gallons per Minute	470	Planned flow	Data
Gallons per Hour	28200		Calculated
Cost per Hour	\$9.40		Calculated
Cost per Gallon	\$0.00033		Calculated
Cost per Kilogallon	\$0.333		Calculated
Chemicals			
Sulfuric Acid (Cost per Kilogallon)	\$0.091	Estimate	Unit Rate
Caustic Soda (Cost per Kilogallon)	\$0.023	Estimate	Unit Rate
Reductant (Cost per Kilogallon)	\$0.114	Estimate	Unit Rate
Antiscalent (Cost per Kilogallon)	\$0.125	Based on required dosage/estimated cost	Unit Rate
Repair & Maintenance (Cost per Kilogallon)	\$0.088	Estimate	Unit Rate
Sampling & Analysis (Cost per Kilogallon)	\$0.170	From Table RP-5	Unit Rate

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
II REVERSE OSMOSIS (continued)			
A. PLANT & OFFICE (continued)			
Total Cost per Kilogallon	\$0.926		Calculated
Total Pumping Cost	\$565,586		Calculated
Utilities			
Power (Cost per Month)	\$566	Estimate	Unit Rate
Propane (Cost per Month)	\$227	Estimate	Unit Rate
Time for Treatment			
Minutes for Treatment	1,299,913		Calculated
Hours for Treatment	21,665		Calculated
Days for Treatment	903		Calculated
Average Days per Month	30.4		Calculated
Months for Treatment	29.7		Calculated
Utilities Cost	\$23,571		Calculated
TOTAL PLANT & OFFICE COST	\$589,157		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
II REVERSE OSMOSIS (continued)			
B. WELLFIELD			
Cost Assumptions:			
Power			
Average Flow per Pump (Gallons per Minute)	32.00	Average value for each area	Data
Average Horsepower per Pump	7.50	Average value for each area	Data
Average Number of Pumps Required	14.7	Average value for each area	Data
Average Connected Horsepower	120.2	Pump horsepower plus 10 horsepower	Calculated
Kilowatt-hours per Horsepower	0.746		Conversion Factor
Cost per Kilowatt-hour	\$0.084	Based on latest invoice of 2013	Unit Rate
Gallons per Minute	470	Planned flow	Data
Gallons per Hour	28,200		Calculated
Cost per Hour	\$7.53		Calculated
Cost per Gallon	\$0.0003		Calculated
Cost per Kilogallon	\$0.267		Calculated
Repair & Maintenance (Cost per Kilogallon)	\$0.116	Estimate	Unit Rate
Total Cost per Kilogallon	\$0.383		Calculated
TOTAL WELLFIELD COST	\$234,161		Calculated
TOTAL REVERSE OSMOSIS COST	\$823,317		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1				
Assumptions/Items	Mine Unit No. 1	Explanation	Source	
III RECIRCULATION				
A. WELLFIELD				
Operating Assumptions:				
Pore Volumes Required	1.0			Data
Total Gallons for Treatment	101,826,508	= Gallons per Pore Volume * Number of Pore Volumes		Calculated
Total Kilogallons for Treatment	101,827	= Total Gallons / 1000		Calculated
Cost Assumptions:				
Power				
Average Flow per Pump (Gallons per Minute)	32	Estimate from pumping		Data
Average Horsepower per Pump	7.50	Estimate from pumping		Data
Average Number of Pumps Required	282.0	Estimate from pumping		Data
Average Connected Horsepower	2,120.0	Pumps plus 5 horsepower for HH		Data
Kilowatt-hours per Horsepower	0.746			Conversion Factor
Cost per Kilowatt-hour	0.084	Based on latest invoice of 2013		Unit Rate
Gallons per Minute	9024	Planned flow		Data
Gallons per Hour	541440			Calculated
Cost per Hour	\$132.85			Calculated
Cost per Gallon	\$0.0002			Calculated
Cost per Kilogallon	0.245			Calculated
Repair & Maintenance (Cost per Kilogallon)	\$0.116	Estimate		Unit Rate
Analysis (Cost per Kilogallon)	\$0.029	From Table RP-5		Unit Rate
Total Cost per Kilogallon	\$0.390			Calculated
TOTAL WELLFIELD RECIRCULATION COST	\$39,739			Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1

Assumptions/Items	Mine Unit No. 1	Explanation	Source
IV WASTE DISPOSAL WELL			
Operating Assumptions:			
Annual Evaporation Capacity (Gallons)	525,600	Minimal credit taken for evaporation	Data
Average Monthly Evaporation Capacity (Gallons)	43,800		Calculated
Total Disposal Requirement			
RO Brine and GWS (Total Gallons)	64,150,700	=Treatment Gallons of RO and GWS * (1- Reverse Osmosis Recovery)	Calculated
RO Brine and GWS (Total Kilogallons)	64,151		Calculated
Months of RO and GWS Operation	44.5		Calculated
Average Monthly Requirement (Gallons)	1,440,320	=Total vol / Months of Reverse Osmosis Operation	Calculated
Monthly Balance for DDW (Gallons)	1,396,520	=Average Monthly Requirement - Average Monthly Evaporation	Calculated
Total WDW Disposal (Gallons)	62,199,884		Calculated
Total WDW Disposal (Kilogallons)	62,200		Calculated
Cost Assumptions:			
Power			
Average Connected Horsepower	25.0	Estimate	Data
WDW Average Connected Horsepower	75.0	Estimate	Data
Kilowatt-hours per Horsepower	0.746		Conversion Factor
Cost per Kilowatt-hour	\$0.084	Based on latest invoice of 2013	Unit Rate
Gallons per Minute	97.0	Planned flow	Data
Gallons per Hour	5820		Calculated
Cost per Hour	\$6.27		Calculated
Cost per Gallon	\$0.0011		Calculated
Cost per Kilogallon	\$1.077		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1

Assumptions/Items	Mine Unit No. 1	Explanation	Source
IV WASTE DISPOSAL WELL (continued)			
Chemicals			
Reverse Osmosis Antiscalent (Cost per Kilogallon)	\$0.000	Estimate included in RO cost above	Unit Rate
WDW Antiscalent (Cost per Kilogallon)	\$0.257	Based on required dosage and cost	Unit Rate
Sulfuric Acid (Cost per Kilogallon)	\$0.000	Estimate included in RO cost above	Unit Rate
Corrosion Inhibitor	\$0.000	Estimate included in RO cost above	Unit Rate
Repair & Maintenance (Cost per Kilogallon)	\$0.131	Estimate	Unit Rate
Total Cost per Kilogallon	\$1.464		Calculated
TOTAL WASTE DISPOSAL WELL COST	\$91,087		Calculated
V STABILIZATION MONITORING			
Operating Assumptions:			
Time of Stabilization (Months)	12	Time frame required	Data
Frequency of Analysis (Months)	3	Required sampling	Data
Total Sets of Analysis	5	Required sampling	Data
Cost Assumptions:			
Power (Cost per Month)	\$1,137	Estimate	Unit Rate
Total Power Cost	\$13,649		Calculated
Sampling & Analysis (Cost per Set)	\$8,178	From Table RP-5	Unit Rate
Total Sampling & Analysis Cost	\$40,890	From Table RP-5	Calculated
Utilities (Cost per Month)	\$2,275	Estimate	Unit Rate
Total Utilities Cost	\$27,297		Calculated
TOTAL STABILIZATION COST	\$81,836		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1						
Assumptions/Items				Mine Unit No. 1	Explanation	Source
VI LABOR						
Cost Assumptions						
		Cost per Hour	Hours	Crew	Cost	
		\$75.00	13000	Project Manager	\$975,000	Based on URE recent hiring, includes 25% for benefits Data
		\$60.00	13000	Supervisor/RSO	\$780,000	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	13000	EHS Tech	\$390,000	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	39867	Plant and Field Operators	\$1,196,010	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	24613	Maintenance	\$738,390	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	13000	Office Support	\$390,000	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	8493	Equipment Operator	\$254,790	Based on URE recent hiring, includes 25% for benefits Data
		\$30.00	8320	Reclamation Laborer	\$249,600	Based on URE recent hiring, includes 25% for benefits Data
		\$35.00	13000	Foreman	\$455,000	Based on URE recent hiring, includes 25% for benefits Data
		\$3.43	16445	Vehicles	\$56,406	Hourly truck use per WDEQ LQD, Guideline 12. Data
TOTAL RESTORATION LABOR COST					\$5,545,534	
VII RESTORATION CAPITAL REQUIREMENTS						
I Plug and Abandon 3 Class I UIC Wells				\$338,850	VII Restoration capital requirements for Class I injection wells. \$112,950 per each of three wells. Cost based on third party quote in 2013 Data	
TOTAL				\$338,850		

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC GROUNDWATER RESTORATION - WORKSHEET 1			
Assumptions/Items	Mine Unit No. 1	Explanation	Source
SUMMARY:			
I GROUNDWATER SWEEP	\$63,958		
II REVERSE OSMOSIS	\$823,317		
III RECIRCULATION	\$39,739		
IV WASTE DISPOSAL WELL	\$91,087		
V STABILIZATION	\$81,836		
VI LABOR	\$5,545,534		
VII CAPITAL	\$338,850		
TOTAL GROUNDWATER RESTORATION COST	\$6,984,320		

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: A. Plant Equipment Removal and Disposal - WORKSHEET 2							
Assumptions/Items	Shop / Lab / Office	Precipitation Section	Chemical Section	Ion Exchange Section	Restoration Section	Total	Explanation Source
Volume (Cubic Yards)	62	82	9	59	27	240	Estimate of equipment to be removed Data
Volume per Truck Load (Cubic Yards)	20	20	20	20	20		Typical load for shipping Data
Number of Truck Loads	3.1	4.1	0.5	3.0	1.4	12.0	Calculated
I DECONTAMINATION							
Decontamination Cost per Truck Load	\$627	\$627	\$627	\$627	\$627		Estimated average decontaminate Unit Rate
Percent Requiring Decontamination	0.0%	63.5%	0.0%	95.5%	100.0%		NA Data
TOTAL DECONTAMINATION COST	\$0	\$1,641	\$0	\$1,772	\$847	\$4,261	Calculated
II DISMANTLING & LOADING							
Cost per Truck Load	\$814	\$814	\$814	\$814	\$814		Estimated average dismantle cost Unit Rate
TOTAL DISMANTLING & LOADING COST	\$2,516	\$3,354	\$385	\$2,409	\$1,100	\$9,763	Calculated
III OVERSIZE							
Percent Requiring Permits	0.0%	10.0%	10.0%	10.0%	10.0%		Data
Cost per Truck Load	\$371	\$371	\$371	\$371	\$371		Unit Rate
TOTAL OVERSIZE COST	\$0	\$153	\$18	\$110	\$50	\$330	Calculated
IV TRANSPORTATION & DISPOSAL							
A. Landfill							
Percent to be Shipped	100.0%	50.0%	100.0%	50.0%	50.0%		Percent acceptable at landfill Data
Distance (Miles)	48	48	48	48	48		Distance to landfill Data
Cost per Mile	\$2.93	\$2.93	\$2.93	\$2.93	\$2.93		Current transport rate Unit Rate
Transportation Cost	\$435	\$290	\$67	\$208	\$95		Calculated
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	\$13.50	\$13.50		Landfill fee @ Rawlins, verified 2013 Unit Rate
Disposal Cost	\$835	\$556	\$128	\$400	\$182		Calculated
Total Cost	\$1,270	\$846	\$194	\$608	\$278		Calculated
B. Licensed Site							
Percent to be Shipped	0.0%	50.0%	0.0%	50.0%	50.0%		Percent requiring disposal at licensed site Calculated
Distance (Miles)	105	105	105	105	105		Distance to Shirley Basin Site, Wy Data
Cost per Mile	\$2.93	\$2.93	\$2.93	\$2.93	\$2.93		Current transport rate Unit Rate
Transportation Cost	\$0	\$634	\$0	\$456	\$208		Calculated
Disposal Cost per Cubic Foot	\$10.50	\$10.50	\$10.50	\$10.50	\$10.50		Licensed site fee Unit Rate
Volume per Truck Load (Cubic Yards)	20.0	20.0	20.0	20.0	20.0		Typical load for shipping Data
Volume per Truck Load (Cubic Feet)	540	540	540	540	540		Calculated
Disposal Cost	\$0	\$11,682	\$0	\$8,392	\$3,831		Calculated
Total Cost Licensed Site	\$0	\$12,316	\$0	\$8,848	\$4,039		Calculated
TOTAL TRANSPORTATION & DISPOSAL COST	\$1,270	\$13,162	\$194	\$9,456	\$4,316	\$28,398	Calculated
TOTAL PLANT EQUIPMENT REMOVAL AND DISPOSAL COST	\$3,786	\$18,310	\$596	\$13,747	\$6,313	\$42,753	Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: B. Plant Building Demolition and Disposal - WORKSHEET 3												
Assumptions/Items						Plant	Shop	Header Houses	Drill Shed	Total	Explanation	Source
I STRUCTURE DEMOLITION & DISPOSAL												
Structural Character						2-Story Steel Frame	1-Story Steel Frame	1-Story Pre-Fab. (14)	1-Story Pole Barn			
Demolition Volume (Cubic Feet)						1,248,000	111,375	45,780	22,400		Estimated volume of structures	Data
Demolition Cost per Cubic Foot						\$0.2800	\$0.2800	\$0.2800	\$0.2800		LQD Guideline 12, Appendix K	Unit Rate
Demolition Cost						\$349,440	\$31,185	\$12,818	\$6,272	\$399,715		Calculation
Factor For Gutting						10.0%	10.0%	10.0%	10.0%		Estimated gutting factor	Data
Gutting Cost						\$34,944	\$3,119	\$1,282	\$627	\$39,972		Calculation
Weight (Pounds)						196,750	47,737	231,000	15,000		Est. weight of building components	Data
Quantity						Height (Feet)	Length (Feet)	Area (Square Feet)	Density (Pounds per Square Foot)	Building Weight (Pounds)		
Ends						2	1	4800	9600	2.5	24000	
Roof						2	82.5	260	42900	2.5	107250	
Sidewall						2	25	260	13000	2.5	32500	
Internal W						1	25	460	11500	2.5	28750	
Internal W						1	30	220	6600	2.5	16500	
Total 2-Story Steel Frame Weight						196750						
Weight per Truck Load						40,000	40,000	40,000	40,000		Typical load for shipping	Data
Number of Truck Loads						4.9	1.2	5.8	0.4			Calculation
Distance to Landfill						48	48	48	48		Distance to Rawlins, WY landfill	Data
Cost per Mile						\$2.93	\$2.93	\$2.93	\$2.93		Current transport rate	Unit Rate
Transportation Cost						\$692	\$168	\$813	\$53	\$1,726		
Disposal Cost per Ton (current price for 2013)						\$70.00	\$70.00	\$70.00	\$70.00		Rawlins, WY Landfill Fee 2013	Unit Rate
Disposal Cost						\$6,886	\$1,671	\$8,085	\$525	\$17,167		Calculation
TOTAL STRUCTURE DEMOLITION & DISPOSAL COST						\$391,962	\$36,142	\$22,998	\$7,477	\$458,580		Calculation

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: B. Plant Building Demolition and Disposal - WORKSHEET 3

Assumptions/Items	Plant	Shop	Header Houses	Drill Shed	Total	Explanation	Source
II CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL							
Area (Square Feet)	44,644	4,725	3,962	565		Building concrete area	Data
Average Thickness (Feet)	1	0.375	0.7	0.3			Data
Volume (Cubic Feet)	44,644	1,772	2,655	141			Calculation
Percent Requiring Decontamination	72.4%	0.0%	50.0%	0.0%			Data
Percent Decontaminated	36.2%	0.0%	50.0%	0.0%			Data
Decontamination (Cost per Square Foot)	\$0.193	\$0.193	\$0.193	\$0.193			Unit Rate
Decontamination Cost	\$3,121	\$0	\$383	\$0	\$3,503		Calculation
Demolition (Cost per Square Foot)	\$5.328	\$5.328	\$5.328	\$5.328		WDEQ-LQD Guideline 12, Appendix	Unit Rate
Demolition Cost	\$237,864	\$25,175	\$21,109	\$3,010	\$287,158		Calculation
Transportation & Disposal							
A. Landfill Disposal							
Percent to be Disposed at Landfill	64%	100%	50%	100%			Data
Concrete Weight (Pounds per Cubic Foot)	150	150	150	150			Data
Concrete Weight (Pounds)	4,272,296	265,781	199,091	21,188			
Weight per Truck Load (Pounds)	40,000	40,000	40,000	40,000			
Number of Truck Loads	106.8	6.6	5.0	0.5			
Distance to Landfill (Miles)	48	48	48	48			
Cost per Mile	\$2.93	\$2.93	\$2.93	\$2.93		Current transport rate	Unit Rate
Transportation Cost	\$15,031	\$935	\$700	\$75	\$16,741		Data
Disposal Cost per Ton	\$70.00	\$70.00	\$70.00	\$70.00		City of Rawlins, WY Landfill Fee 2013	Unit Rate
Disposal Cost	\$149,530	\$9,302	\$6,968	\$742	\$166,542		Calculation
B. Licensed Site							
Percent to be Shipped	36%	0%	50%	0%			Calculation
Distance (Miles)	105	105	105	105			Data
Cost per Mile	\$2.93	\$2.93	\$2.93	\$2.93		Current transport rate	Unit Rate
Transportation Cost	\$9,214	\$0	\$757	\$0	\$9,971		Calculation
Disposal Cost per Cubic Foot	\$4.16	\$4.16	\$4.16	\$4.16		Licensed Site Fee	Unit Rate
Volume per Truck Load (Cubic Yards)	20	20	20	20			Data
Volume per Truck Load (Cubic Feet)	540	540	540	540			Calculation
Disposal Cost	\$67,235	\$0	\$5,521	\$0	\$72,757		Calculation
TOTAL CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL	\$481,995	\$35,412	\$35,439	\$3,826	\$556,673		Calculation

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: B. Plant Building Demolition and Disposal - WORKSHEET 3							
Assumptions/Items	Plant	Shop	Header Houses	Drill Shed	Total	Explanation	Source
III SOIL REMOVAL & DISPOSAL							
Front End Loader Cost per Hour	\$117	\$117	\$117	\$117		WDEQ-LQD Guideline 12, Appendix J	
Time with Front End Loader (Hours)	24	0	0	0	0		
Cost of Front End Loader	\$2,820	\$0	\$0	\$0	\$0	Assume removal of 3" of Contaminant Data	
Volume to be Shipped (Cubic Feet)	3467	0	0	0		Soil Under Headers, 1" under Plant, Data	
Distance (Miles)	105	105	105	105		Disposal at a Licensed Facility Data	
Cost per Mile	\$2.93	\$2.93	\$2.93	\$2.93			Unit Rate
Transportation Cost	\$1,976	\$0	\$0	\$0	\$1,976		Calculation
Disposal Fee per Cubic Foot	\$4.16	\$4.16	\$4.16	\$4.16		Soil disposal cost at licensed site 201 Unit Rate	
Quantity per Truck Load (Cubic Feet)	540	540	540	540			Data
Disposal Cost	\$14,421	\$0	\$0	\$0	\$14,421		Calculation
TOTAL SOIL REMOVAL & DISPOSAL COST	\$19,218	\$0	\$0	\$0	\$19,218		Calculation
IV RADIATION SURVEY							
Area Required (Acres)	0.96	0.00	0.10	0.04			Data
Survey Cost per Acre	\$660.18	\$660.18	\$660.18	\$660.18		Estimate	Unit Rate
TOTAL RADIATION SURVEY COST	\$630	\$0	\$64	\$24	\$718		Calculation
TOTAL PLANT BUILDING DEMOLITION AND DISPOSAL COST	\$893,805	\$71,554	\$58,501	\$11,327	\$1,035,188		Calculation

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: C. Storage Pond Sludge and Liner Handling - WORKSHEET 4

Assumptions/Items	Pond 1 Storage	Pond 2 Storage	Total	Explanation	Source
I POND SLUDGE					
Average Sludge Depth (Feet)	0.021	0.021			Data
Average Sludge Area (Square Feet)	40,300	40,300			Data
Sludge Volume (Cubic Feet)	840	840			Calculated
Sludge Volume (Cubic Yards)	31	31			Calculated
Sludge Volume per Truck Load (Cubic Yards)	20.0	20.0	20.0		Data
Number of Sludge Truck Loads	1.6	1.6			Calculated
Sludge Handling Cost Per Load	\$231.56	\$231.56		Estimate 2 hrs of loader time/truck load; loader cost of \$115.78/hr per Table D-1 of Guideline 12	Unit Rate
Total Sludge Handling Cost	\$370	\$370	\$741		Calculated
Transportation & Disposal					
Percent to be Shipped	100.0%	100.0%			Data
Distance (Miles)	105	105			Data
Cost per Mile	\$2.93	\$2.93	\$2.93	Current Transport Rate	Unit Rate
Transportation Cost	\$493	\$493			Calculated
Disposal Cost per Cubic Foot	\$3.52	\$3.52	\$3.52	Licensed Site Fee	Unit Rate
Volume per Truck Load (Cubic Yards)	20.0	20.0	20.0		Data
Volume per Truck Load (Cubic Feet)	540	540			Calculated
Disposal Cost	\$3,041	\$3,041			Calculated
Total Transportation & Disposal Cost	\$3,534	\$3,534	\$7,069		Calculated
TOTAL POND SLUDGE COST	\$3,905	\$3,905	\$7,810		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: C. Storage Pond Sludge and Liner Handling - WORKSHEET 4

Assumptions/Items	Pond 1 Storage	Pond 2 Storage	Total	Explanation	Source
II POND LINER					
Total Pond Area (Acres)	0.93	0.93			Data
Total Pond Area (Square Feet)	40,300	40,300			Calculated
Factor For Sloping Sides	20.0%	20.0%			Data
Total Liner Area (Square Feet)	96720	96720			Calculated
Liner Thickness (Mils)	30	30			Data
Liner Thickness (Inches)	0.0300	0.0300			Calculated
Liner Thickness (Feet)	0.0025	0.0025			Calculated
Compaction Factor	20.0%	20.0%			Data
Liner Volume (Cubic Feet)	290	290			Calculated
Truck Loads of Liner	0.5	0.5			Calculated
Liner Handling Cost					
Labor Crew Cost per Hour	\$126	\$126		3 laborers @ \$30, 1 foreman @ \$35	Unit Rate
Hours per Load	2.0	2.0			Unit Rate
Liner Handling Cost per Load	\$252.75	\$252.75			Calculated
Total Liner Handling Cost	\$126	\$126	\$252		Calculated
Transportation & Disposal					
Percent to be Shipped	100.0%	100.0%			Data
Distance (Miles)	48	48			Data
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$70	\$70	\$0		Calculated
Disposal Cost per Cubic Foot	\$10.50	\$10.50	\$10.50	Current disposal rate	Unit Rate
Volume per Truck Load (Cubic Feet)	540	540			Data
Disposal Cost	\$2,835	\$2,835			Calculated
Total Transportation & Disposal	\$2,905	\$2,905	\$5,811		Calculated
TOTAL POND LINER COST	\$3,031	\$3,031	\$6,063		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: C. Storage Pond Sludge and Liner Handling - WORKSHEET 4

Assumptions/Items	Pond 1 Storage	Pond 2 Storage	Total	Explanation	Source
III POND BACKFILL					
Backfill Required (Cubic Yards)	10,448	10,448			Data
Backfill Cost per Cubic Yard	\$0.65	\$0.65		LQD G.L. 12, App. C. Case 1, average distance per one way carry is 300' but the table only goes as low as 500' so the rate was multiplied by 3/5. Assumes flat surface	Unit Rate
TOTAL POND BACKFILL COST	\$6,770	\$6,770	\$13,540		Calculated
IV RADIATION SURVEY					
Areal required (Acres)	0.93	0.93			Data
Survey Cost per Acre	\$660.18	\$660.18		Estimate	Unit Rate
TOTAL RADIATION SURVEY COST	\$614	\$614	\$1,228		Calculated
V LEAK DETECTION SYSTEM REMOVAL					
Gravel and Piping Volume (Cubic Feet)	15.1	15.1		Only piping included since gravel will be left in place since it isn't 11e2	Data
Volume per Truck Load (Cubic Feet)	540	540			Data
Loads to be Shipped	0.03	0.03			Calculated
Distance (Miles)	48	48			Data
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$4	\$4			Calculated
Handling Cost	\$0.00	\$0.00		Estimate 2 hrs per truck with loader	Unit Rate
Disposal Fee per Cubic Foot	\$0.50	\$0.50	0.50	Disposal Fee Rawlins, WY landfill	Unit Rate
Disposal Cost	\$8	\$8	\$0		Calculated
TOTAL LEAK DETECTION SYSTEM REMOVAL COST	\$11	\$11	\$23		Calculated
TOTAL POND RECLAMATION COST	\$14,332	\$14,332	\$28,663		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: D. Well Abandonment - WORKSHEET 5

Assumptions/Items	MU-1 (I/P Wells)	MU-2 (I/P Wells)	Site Wells (Monitor and Water Supply)	Explanation	Source
Number of Wells	899	485	234		Data
Average Depth (Feet)	413	480	602		Data
Average Diameter (Inches)	4.27	4.27	4.27		Data
I Well Abandonment Costs					
BH20 Thermal Grout Required (sacks/barrel)	1.5	1.5	1.5		Data
Grout Sacks Required per Well	12.1	14.0	17.6	10% added to account for settling	Data
Grout Sack Cost	\$9.17	\$9.17	\$9.17	2013 cost from local vendor	Unit Rate
Grout Cost per Well	\$110.62	\$128.56	\$161.16		Calculated
Bentonite Sacks Required per Well	1.0	1.0	1.0		Calculated
Bentonite Bag Cost	\$5.20	\$5.20	\$5.20	2013 cost from local vendor	Unit Rate
Bentonite Cost per Well	\$5.20	\$5.20	\$5.20		Calculated
Cement Sacks Required per Well for Cap	1.0	1.0	1.0		
Cement Sack Cost	\$15.65	\$15.65	\$15.65	2013 cost from local vendor	
Cement Cost per Well	\$81.38	\$81.38	\$81.38		
TOTAL MATERIALS COST PER WELL	\$197.20	\$215.14	\$247.74		Calculated
II LABOR (INCLUDED IN WORKSHEET 1)					
Hours Required per Well	0.0	0.0	0.0		Data
Labor Cost per Hour	\$0.00	\$0.00	\$0.00		Unit Rate
TOTAL LABOR COST PER WELL	\$0.00	\$0.00	\$0.00		Calculated
III EQUIPMENT RENTAL					
Backhoe Hours	0.0	0.0	0.0	Estimated time for pit and casing removal	Data
Backhoe Cost per Hour	\$38.64	\$38.64	\$38.64	WDEQ-LQD Guideline 12, Appendix O	Unit Rate
Grouter Hours	0.75	0.75	0.75		
Grouter Cost per Hour	\$25.28	\$25.28	\$25.28	Estimate	Unit Rate
Total Equipment Cost per Well	\$18.96	\$18.96	\$18.96		Calculated
TOTAL ABANDONMENT COST PER WELL	\$216.15	\$234.10	\$266.69		Calculated
SUBTOTAL WELL ABANDONMENT COST	\$ 194,321	\$ 113,537	\$ 62,406		
TOTAL WELL ABANDONMENT COST	\$ 370,264				Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6

Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
I WELLFIELD PIPING					
A. Removal					
Buried Length per Well (Feet)	335	335	0		data
Downhole Length per Well (Feet) (stinger and riser)	398	398	250		data
Total Number of Wells	899	60	234		data
Total Length (Feet)	658,967	43,980	58,500		Calculated
Cost of Removal per Foot	::: \$0.110	::: \$0.110	::: \$0.110	estimate	Unit Rate
Cost of Removal	\$72,284	\$4,824	\$6,417		Calculated
Chipping Rate (feet per hour)	1500	1500	1500	estimate	Estimate
Chipper Cost per Hour	::: \$0.33	::: \$0.33	::: \$0.33	estimate	Unit Rate
Chipping Cost	\$13,324	\$889	\$1,183		Calculated
Average OD (Inches)	1.6	1.6	1.6	hdpe pipe od	data
Chipped Volume Reduction (Cubic Feet per Foot)	0.008	0.008	0.008		Unit Rate
Chipped Volume (Cubic Feet)	5,272	352	468		Calculated
Volume per Truck Load (Cubic Feet)	540	540	540		data
Total Number of Truck Loads	9.8	0.7	0.9		Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0%	0%	0%		Estimate
Number of Decontamination Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$620.00	\$620.00	\$620.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0		Calculated
C. Transport & Disposal					
Landfill Transportation					
Percent to be Shipped	0.0%	100.0%	100.0%	No wells piped in	
Loads to be Shipped	0.0	0.7	0.9		Calculated
Distance (Miles)	48	48	48		Data
Transportation Cost per Mile	::: \$2.93	::: \$2.93	::: \$2.93	Current transport rate	Unit Rate
Transportation Cost	\$0	\$92	\$122		Calculated
Landfill Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	Rawlins, WY landfill fee, verified 2013	Unit Rate
Load Volume (Cubic Yards)	195.2	13.0	17.3		Calculated
Disposal Cost	\$0	\$8	\$15		Calculated
Total Landfill Cost	\$0	\$100	\$137		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6					
Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
I WELLFIELD PIPING (continued)					
C. Transport & Disposal (continued)					
Licensed Site					
Transportation					
Percent to be Shipped	100.0%	0.0%	0.0%	na, no operations yet	Calculated
Loads to be Shipped	9.8	0.0	0.0		Calculated
Distance (Miles)	105	105	105		
Transportation Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$3,017	\$0	\$0		Calculated
Disposal					
Disposal Fee per Cubic Foot	\$4.16	\$4.16	\$4.16	Licensed site fee 2013	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	195.2	13.0	17.3		
Disposal Cost	\$214,918	\$0	\$0		Calculated
Total Licensed Site Cost	\$217,935	\$0	\$0		Calculated
Total Transport & Disposal Cost	\$217,935	\$100	\$137		Calculated
TOTAL WELLFIELD PIPING REMOVAL & DISPOSAL COST	\$303,544	\$5,914	\$7,874		Calculated
II WELL PUMPS					
A. Pump Removal					
Number of Wells with Pumps	282	60	234		
Removal Cost per Well	\$24.40	\$24.40	\$24.40	estimated cost of hose reel used to pull pump. Removal time is about 15 minutes/well	Unit Rate
Removal Cost	\$6,880	\$1,464	\$5,709		Calculated
Number of Pumps per Truck Load	180	180	180		
Number of Truck Loads (Pumps)	1.6	0.3	1.3		Calculated
B. Survey & Decontamination (Pumps)					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6

Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
II WELL PUMPS (continued)					
C. Transport & Disposal					
Landfill					
Transportation					
Percent to be Shipped (Pumps)	0.0%	100.0%	100.0%		
Loads to be Shipped	0.0	0.3	1.3		Calculated
Distance (Miles)	48	48	48		
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$0	\$42	\$183		Calculated
Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	Rawlins landfill fee, confirmed 2013	Unit Rate
Load Volume (Cubic Yards)	0	6	26		Calculated
Disposal Cost	\$0	\$24	\$456		Calculated
Total Landfill Cost	\$0	\$67	\$639		Calculated
Licensed Site					
Transportation					
Percent to be Shipped (Pumps)	100.0%	0.0%	0.0%		
Loads to be Shipped	1.6	0.0	0.0		Calculated
Distance (Miles)	105	105	105		Data
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$493	\$0	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6					
Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
II WELL PUMPS (continued)					
D. Transport & Disposal (continued)					
Licensed Site (continued)					
Disposal					
Disposal Cost per Cubic Foot	\$10.50	\$10.50	\$10.50	Licensed site fee 2013	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	195	13	17		Data
Disposal Cost	\$35,089	\$0	\$0		Calculated
Total Licensed Site Cost	\$35,581	\$0	\$0		Calculated
Total Transport & Disposal Cost	\$35,581	\$67	\$639		Calculated
TOTAL WELL PUMP REMOVAL & DISPOSAL COST	\$42,461	\$1,530	\$6,348		Calculated
III SURFACE TRUNKLINE PIPING					
A. Removal					
Total Length (Feet)	0	0	0		
Removal Cost per Foot	\$0.081	\$0.081	\$0.081		Unit Rate
Removal Cost	\$0	\$0	\$0		Calculated
Average OD (Inches)	8.750	8.750	0.000		
Chipped Volume Reduction (Cubic Feet per Foot)	0.088	0.088	0.088		Unit Rate
Chipped Volume (Cubic Feet)	0	0	0		Calculated
Volume per Truck Load (Cubic Feet)	540	540	540		
Total Number of Truck Loads	0.0	0.0	0.0		Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6					
Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
III SURFACE TRUNKLINE PIPING (continued)					
C. Transport & Disposal					
Landfill					
Transportation					
Percent to be Shipped	0.0%	0.0%	100.0%		
Loads to be Shipped	0.0	0.0	0.0		Calculated
Distance (Miles)	48	48	48		
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$0	\$0	\$0		Calculated
Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	Rawlins, WY landfill fee, confirmed 2013	Unit Rate
Load Volume (Cubic Yards)	0	6	0		
Disposal Cost	\$0	\$0	\$0		Calculated
Total Landfill Cost	\$0	\$0	\$0		Calculated
Licensed Site					
Transportation					
Percent to be Shipped	100.0%	100.0%	0.0%		Calculated
Loads to be Shipped	0.0	0.0	0.0		Calculated
Distance (Miles)	105	105	105		
Cost per Mile	\$2.93	\$2.93	\$2.93		Unit Rate
Transportation Cost	\$0		\$0		Calculated
Disposal					
Disposal Cost per Cubic Foot	\$4.16	\$4.16	\$4.16	Licensed site disposal fee	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	195.2	13.0	17.3		
Disposal Cost	\$0	\$0	\$0		Calculated
Total Licensed Site Cost	\$0	\$0	\$0		Calculated
Total Transport & Disposal Cost	\$0	\$0	\$0		Calculated
TOTAL SURFACE TRUNKLINE PIPING REMOVAL & DISPOSAL COST	\$0	\$0	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6					
Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
IV BURIED TRUNKLINE					
A. Removal					
Total Length (Feet)	30,116	16,000	0		Data
Removal Cost per Buried Foot	\$1.59	\$1.59	\$1.59	Estimate	Unit Rate
Removal Cost	\$23,977	\$12,739	\$0		Calculated
Chipping Rate (feet per hour)	150	150	150	Estimate	Estimate
Chipper Cost per Hour	\$30	\$30	\$30	Estimate	Unit Rate
Chipping Cost	\$6,089	\$3,235	\$0		Calculated
Average OD (Inches)	13.100	14.000	0.000	Based on proposed designs	Data
Chipped Volume Reduction (Cubic Feet per Foot)	0.598	0.715	0.309		Unit Rate
Chipped Volume (Cubic Feet)	18,009	11,440	0		Calculated
Volume per Truck Load (Cubic Feet)	540	540	540		Data
Number of Truck Loads	33.4	21.2	0.0		Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0		Calculated
C. Transport & Disposal					
Landfill					
Transportation					
Percent to be Shipped	0.0%	100.0%	100.0%		
Loads to be Shipped	0.0	21.2	0.0		Calculated
Distance (Miles)	48	48	48		
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$0	\$2,984	\$0		Calculated
Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	Rawlins, WY landfill fee, confirmed 2013	Unit Rate
Load Volume (Cubic Yards)	0.0	423.7	0.0		Calculated
Disposal Cost	\$0	\$121,264	\$0		Calculated
Total Landfill Cost	\$0	\$124,248	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6

Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
IV BURIED TRUNKLINE (continued)					
C. Transport & Disposal (continued)					
Licensed Site					
Transportation					
Percent to be Shipped	100.0%	0.0%	0.0%		Calculated
Loads to be Shipped	33.4	0.0	0.0		Calculated
Distance (Miles)	105	105	105		
Cost per Mile	::: \$2.93	::: \$2.93	::: \$2.93	Current transport rate	Unit Rate
Transportation Cost	\$10,282	\$0	\$0		Calculated
Disposal					
Disposal Cost per Cubic Foot	\$4.16	\$4.16	\$4.16	Licensed site disposal fee	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	195	13	17		
Disposal Cost	\$732,476	\$0	\$0		Calculated
Total Licensed Site Cost	\$742,758	\$0	\$0		Calculated
Total Transport & Disposal Cost	\$742,758	\$124,248	\$0		Calculated
TOTAL BURIED TRUNKLINE REMOVAL & DISPOSAL COST	\$772,825	\$264,469	\$0		Calculated
V MANHOLES					
A. Removal					
Total Quantity	15	6	0		
Removal Cost per Manhole	::: \$73.96	::: \$73.96	::: \$73.96	Estimate	Unit Rate
Removal Cost	\$1,109	\$444	\$0		Calculated
Quantity per Truck Load	10	10	10		
Number of Truck Loads	1.5	0.6	0.0		Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: E. Wellfield Equipment Removal and Disposal - WORKSHEET 6					
Assumptions/Items	MU-1 (I/P wells)	MU-2 (I/P wells)	Site Wells (monitor and water supply)	Explanation	Source
V MANHOLES (continued)					
C. Transport & Disposal					
Landfill					
Transportation					
Percent to be Shipped	100.0%	100.0%	100.0%		
Loads to be Shipped	1.5	0.6	0.0		Calculated
Distance (Miles)	48	48	48		Unit Rate
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Calculated
Transportation Cost	\$211	\$84	\$0		
Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50	Rawlins, WY landfill fee, confirmed 2013	Unit Rate
Load Volume (Cubic Yards)	30.0	12.0	0.0		
Disposal Cost	\$608	\$97	\$0		Calculated
Total Landfill Cost	\$819	\$182	\$0		Calculated
Licensed Site					
Transportation					
Percent to be Shipped	0.0%	0.0%	0.0%		Calculated
Loads to be Shipped	0.0	0.0	0.0		Calculated
Distance (Miles)	105	105	105		
Cost per Mile	\$2.93	\$2.93	\$2.93	Current transport rate	Unit Rate
Transportation Cost	\$0	\$0	\$0		Calculated
Disposal					
Disposal Cost per Cubic Foot	\$10.50	\$10.50	\$10.50	Licensed site disposal fee	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	195	13	17		
Disposal Cost	\$0	\$0	\$0		Calculated
Total Licensed Site Cost	\$0	\$0	\$0		Calculated
Total Transport & Disposal Cost	\$819	\$182	\$0		Calculated
TOTAL MANHOLE REMOVAL & DISPOSAL COST	\$1,928	\$625	\$0		Calculated
SUBTOTAL WELLFIELD EQUIPMENT REMOVAL AND DISPOSAL COST	\$1,120,758	\$272,538	\$14,222		
TOTAL WELLFIELD EQUIPMENT REMOVAL AND DISPOSAL COST	\$1,407,518				Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
I PLANT			
A. Topsoil Handling & Grading			
Affected Area (Acres)	5.0		Data
Average Affected Thickness (Inches)	16.0		Data
Topsoil Volume (Cubic Yards)	10,756		Calculated
Hauling/Placement Cost per Cubic Yard	\$0.55	LQD Gdline 12, App B, Case 1, level ground, 300' one way, rate multiplied by 3/5 to interpolate distance on App B table	Unit Cost
Topsoil Handling Cost	\$5,873		Calculated
Grading Cost per Acre	\$75.25	LQD G.L. 12, App G	Unit Cost
Grading Cost	\$376		Calculated
Total Topsoil Handling & Grading Cost	\$6,249		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	\$660.18		Unit Cost
Total Survey & Analysis Cost	\$3,301		Calculated
C. Revegetation			
Fertilizer Cost per Acre	\$52.91	Estimate	Unit Cost
Seeding Preparation & Seeding Cost per Acre	\$191.94	Estimate	Unit Cost
Mulching & Crimping Cost per Acre	\$314.67	Estimate	Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$2,798		Calculated
TOTAL PLANT COST	\$12,347		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
II PONDS			
A. Topsoil Handling & Grading			
Affected Area (Acres)	5.0		Data
Average Affected Thickness (Inches)	22		Data
Topsoil Volume (Cubic Yards)	14,789		Calculated
Hauling/Placement Cost per Cubic Yard	\$0.55	LQD Gdline 12, App B, Case 1, level ground, 300' one way, rate multiplied by 3/5 to interpolate distance on App B table	Unit Cost
Topsoil Handling Cost	\$8,075		Calculated
Grading Cost per Acre	\$75.25	LQD Gdline 12, App G	Unit Cost
Grading Cost	\$376		Calculated
Total Topsoil Handling & Grading Cost	\$8,451		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	... \$660.18		Unit Cost
Total Survey & Analysis Cost	\$3,301		Calculated
C. Revegetation			
Fertilizer Cost per Acre	... \$52.91	Estimate	Unit Cost
Seeding Preparation & Seeding Cost per Acre	... \$191.94	Estimate	Unit Cost
Mulching & Crimping Cost per Acre	... \$314.67	Estimate	Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$2,798		Calculated
TOTAL POND COST	\$14,549		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
III WELLFIELDS			
A. Topsoil Handling & Grading			
Affected Area (Acres)	77.0		Data
Average Affected Thickness (Inches)	0.0	NA-Included in well costs - WS5	Data
Topsoil Volume (Cubic Yards)	0		Calculated
Hauling/Placement Cost per Cubic Yard	\$0.55	LQD Gdline 12, App B, Case 1, level ground, 300' one way, rate multiplied by 3/5 to interpolate distance on App B table	Unit Cost
Topsoil Handling Cost	\$0		Calculated
Grading Cost per Acre	\$0.00	NA	Unit Cost
Grading Cost	\$0		Calculated
Total Topsoil Handling & Grading Cost	\$0		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	\$660.18		Unit Cost
Total Survey & Analysis Cost	\$50,834		Calculated
C: Spill Cleanup			
Affected Area (Acres)	-		Calculated
Affected Area (Square Feet)	-		
Average Affected Thickness (Feet)	0.25		
Affected Volume (Cubic Feet)	-		Calculated
Volume per Truck Load (Cubic Feet)	540		
Number of Truck Loads	0.0		Calculated
Distance (Miles)	105		
Cost per Mile	\$2.93	Current transport rate	Unit Cost
Transportation Cost	\$0		Calculated
Handling Cost per Truck Load	\$238		Unit Cost
Handling Cost	\$0		Calculated
Disposal Fee per Cubic Foot	\$4.16		Unit Cost
Disposal Cost	\$0		Calculated
Total Spill Cleanup Cost	\$0		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
III WELLFIELDS (continued)			
D. Revegetation			
Fertilizer Cost per Acre	\$52.91	Estimate	Unit Cost
Seeding Preparation & Seeding Cost per Acre	\$191.94	Estimate	Unit Cost
Mulching & Crimping Cost per Acre	\$314.67	Estimate	Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$43,083		Calculated
TOTAL WELLFIELDS COST	\$93,917		Calculated

IV ROADS			
A. Topsoil Handling & Grading			
Affected Area (Acres)	36.1		

Main Road Lengths (ft)	Secondary Road Lengths (ft)	
2,435	730	
948	129	
12,295	596	
3,981	176	
1,537	695	
2,114	882	
1,017	184	
482	270	
1,325	551	
6,000	159	
16,983	733	
49,117	5,105	Total Road Lengths (Feet)
20	12	Road Width (Feet)
12	8	Road Borrow (Feet)
32	20	Road Width and Borrow (Feet)
36.1	2.3	Road Area (Acres)
38.4		Total Road Area (Acres)

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
IV ROADS (continued)			
A. Topsoil Handling & Grading (continued)			
Average Affected Thickness (Inches)	15		
Topsoil Volume (Cubic Yards)	72,766		Calculated
Hauling/Placement Cost per Cubic Yard	\$1.24	LQD Gdline 12, App B, Case 1, flat, 1,500' one way	Unit Cost
Topsoil Handling Cost	\$90,084		Calculated
Grading Cost per Acre	\$75.25	LQD Gdline 12, App G	Unit Cost
Grading Cost	\$2,715		Calculated
Scarify Compacted Area per Acre	\$69.02	LQD Gdline 12, App P	Unit Cost
Scarify Cost	\$2,490		Calculated
Total Topsoil Handling & Grading Cost	\$95,290		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	\$660.18		Unit Cost
Total Survey & Analysis Cost	\$23,821		Calculated
C. Revegetation			
Fertilizer Cost per Acre	\$52.91	Estimate	Unit Cost
Seeding Preparation & Seeding Cost per Acre	\$191.94	Estimate	Unit Cost
Mulching & Crimping Cost per Acre	\$314.67	Estimate	Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$20,189		Calculated
TOTAL ROADS COST	\$139,299		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
V OTHER			
A. Topsoil Handling & Grading			
Affected Area (Acres)	13.6		
Average Affected Thickness (Inches)	12.0		
Topsoil Volume (Cubic Yards)	21992.22		Calculated
Hauling/Placement Cost per Cubic Yard	\$0.55	LQD Gdline 12, App B, Case 1, level ground, 300' one way, rate multiplied by 3/5 to interpolate distance on App B table	Unit Cost
Topsoil Handling Cost	\$12,008		Calculated
Grading Cost per Acre	\$75.25	N/A	Unit Cost
Grading Cost	\$1,026		Calculated
Total Topsoil Handling & Grading Cost	\$13,034		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	... \$660.18	NA / no operations yet	Unit Cost
Total Survey & Analysis Cost	\$8,999		Calculated
C. Revegetation			
Fertilizer Cost per Acre	... \$52.91	Estimate	Unit Cost
Seeding Preparation & Seeding Cost per Acre	... \$191.94	Estimate	Unit Cost
Mulching & Crimping Cost per Acre	... \$314.67	Estimate	Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$7,627		Calculated
TOTAL OTHER COST	\$29,660		Calculated

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: F. Topsoil Replacement and Revegetation - WORKSHEET 7

Assumptions/Items	Plant Site and MU 1 and 2	Explanation	Source
VI REMEDIAL ACTION			
A. Topsoil Handling & Grading			
Affected Area (Acres)	68.4	Reseed 50% of previously seeded	Data
Average Affected Thickness (Inches)	0.0		Data
Topsoil Volume (Cubic Yards)	0		Calculated
Hauling/Placement Cost per Cubic Yard	\$0.55	LQD G.L. 12, App B, Case 1, level ground, 300' one way, rate multiplied by 3/5 to interpolate distance on App B table	Unit Cost
Topsoil Handling Cost	\$0		Calculated
Grading Cost per Acre	\$0.00	NA - reseed only	Unit Cost
Grading Cost	\$0		Calculated
Total Topsoil Handling & Grading Cost	\$0		Calculated
B. Radiation Survey & Soil Analysis			
Survey & Analysis Cost per Acre	\$0.00		Unit Cost
Total Survey & Analysis Cost	\$0		Calculated
C. Revegetation			
Fertilizer Cost per Acre	... \$52.91		Unit Cost
Seeding Preparation & Seeding Cost per Acre	... \$191.94		Unit Cost
Mulching & Crimping Cost per Acre	... \$314.67		Unit Cost
Total Revegetation Cost per Acre	\$559.52		Calculated
Total Revegetation Cost	\$38,247		Calculated
TOTAL REMEDIAL ACTION COST	\$38,247		Calculated
SUBTOTAL TOPSOIL REPLACEMENT AND REVEGETATION	\$328,020		
TOTAL TOPSOIL REPLACEMENT AND REVEGETATION COST	\$328,020		

**Table RP-4: Reclamation/Restoration Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: G. Miscellaneous Reclamation Activities - WORKSHEET 8

Assumptions/Items	Quantity	Explanation	Source
I FENCE REMOVAL & DISPOSAL			
Length (Feet) (MU1 &2, plant, pond)	33,357		Data
Removal & Disposal Cost per Foot	\$0.29	LQD G.L. 12, Appendix H, rate reduced by 10% since only 3 strands of wire	Unit Cost
TOTAL FENCE REMOVAL AND DISPOSAL COST	\$9,674		Calculated
II CULVERT REMOVAL & DISPOSAL			
Length (Feet)	280		
Removal & Disposal Cost per Foot	\$6.89	WDEQ-LQD Guideline 12, Appendix J	Unit Cost
TOTAL CULVERT REMOVAL & DISPOSAL COST	\$1,447	App J is for 48" culverts. Culverts at LC are generally 18" to 24" so the rate has been reduced by 25%	Calculated
III UTILITIES			
Number of Months	6		
Cost per Month	\$2,406	Estimate	Unit Cost
TOTAL UTILITIES COST	\$14,437		Calculated
IV DDW PIPELINE REMOVAL AND DISPOSAL			
Length (Feet)	19,014		
Removal & Disposal Cost per Foot	\$2.54	See "DDW Pipeline Calcs" Worksheet	Unit Cost
TOTAL DDW PIPELINE REMOVAL & DISPOSAL COST	\$48,271		Calculated
V REVEGETATION RETAINER FOR PRIOR YEAR'S DRILLING			
Drill Holes Requiring Retainer	707		yrs 2005 - 2010
Revegetation Retainer	\$60,581	per WDEQ-LQD	Unit Cost
TOTAL REVEGETATION RETAINER FOR PRIOR YEAR'S DRILLING	\$35,739		Calculated
TOTAL MISCELLANEOUS RECLAMATION ACTIVITIES COST	\$109,568		Calculated

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Restoration Analytical Costs⁽¹⁾						
Sample Type	Groundwater Sweep					
	# of Sample Points	Frequency (Rounds/ Year)	Length of Time (years)	Analytes	Cost per Sample	Total
UCL Monitoring	55	24	1.25	Cl, Alkalinity, Conductivity	\$20.00	\$ 33,000
Monitoring of Pattern Area including Production & MP Wells	--	--	--	--	--	--
Production Composite ⁽²⁾	--	--	--	--	--	--
Disposal Stream to Deep Well(s) and Local Water Supply Well	2	12	1.25	TDS, U, Ra	\$110.00	\$ 3,300
Storage Ponds	2	4	1.25	See Ops Plan	\$170.00	\$ 1,700
Storage Pond Wells	4	12	1.25	Cl, HCO ₃ , U, SO ₄	\$40.00	Only sample if water present
						\$ 38,000
Sample Type	Reverse Osmosis					
	# of Sample Points	Frequency (Rounds/ Year)	Length of Time (years)	Analytes	Cost per Sample	Total
UCL Monitoring	55	24	2.5	Cl, Alkalinity, Conductivity	\$20.00	\$ 66,000
Monitoring of Pattern Area including Production & MP Wells	13	52	2.5	U, Conductivity	\$10.00	\$ 16,900
Production Composite	1	12	2.5	See Table RP-1b.	\$372.00	\$ 11,160
Disposal Stream to Deep Well(s) and Local Water Supply Well	2	12	2.5	TDS, U, Ra	\$110.00	\$ 6,600
Storage Ponds	2	4	2.5	See Ops Plan	\$170.00	\$ 3,400
Storage Pond Wells	4	12	2.5	Cl, HCO ₃ , SO ₄ , U	\$40.00	Only sample if water present
						\$ 104,060
Sample Type	Recirculation					
	# of Sample Points	Frequency (Rounds/ Year)	Length of Time (years)	Analytes	Cost per Sample	Total
UCL Monitoring	55	24	0.08	Cl, Alkalinity, Conductivity	\$20.00	\$ 2,200
Monitoring of Pattern Area including Production & MP Wells	13	1	0.08	U, Conductivity	\$10.00	\$ 11
Production Composite	1	12	0.08	See Table RP-1b.	\$372.00	\$ 372
Disposal Stream to Deep Well(s) and Local Water Supply Well	2	12	0.08	TDS, U, Ra	\$110.00	\$ 220
Storage Ponds	2	4	0.08	See Ops Plan	\$170.00	\$ 113
Storage Pond Wells	4	12	0.08	Cl, HCO ₃ , SO ₄ , U	\$40.00	Only sample if water present
						\$ 2,916
Sample Type	Stabilization					
	# of Sample Points	Frequency (Rounds/ Year)	Length of Time (years)	Analytes	Cost per Sample	Total
UCL Monitoring	55	6	1	Cl, Alkalinity, Conductivity	\$20.00	\$ 6,600
Monitoring of Pattern Area including Production & MP Wells	13	5	1	See Table RP-1b.	\$10.00	\$ 650
Production Composite	--	--	--	--	--	--
Disposal Stream to Deep Well(s) and Local Water Supply Well	2	12	1	TDS, U, Ra	\$110.00	\$ 2,640
Storage Ponds	2	4	1	See Table RP-1b.	\$170.00	\$ 1,360
Storage Pond Wells	4	12	1	Cl, HCO ₃ , Conductivity, U	\$40.00	Only sample if water present
						\$ 11,250
⁽¹⁾ Costs updated in September 2013 from Energy Labs on-line cost sheet						
⁽²⁾ Combination of flows from all the wells being pumped in a given mine unit, i.e., plant inflow.						

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank List

	Quantity	Length (Feet)	Width or Area (Feet or Square Feet)	Thickness (Feet)	Volume (Cubic Feet)	Crushed Volume (cu. Yd)	Contamination	Contaminated Volume (Cubic Yards)	Percent Contamination
MAINTENANCE SHOP									
Concrete									
Shop Floor	1	135	55	0.58	4306.5	159.5	N	0.0	0
SHOP / LAB / OFFICE									
Concrete									
Shop Floor	1	125	40	0.5	2500	92.6	N	0.0	0.0%
Lab Floor	1	40	40	0.5	800	29.6	N	0.0	0.0%
Office Floor	1	40	80	0.5	1600	59.3	N	0.0	0.0%
Drum Storage	1	40	55	0.5	1100	40.7	Y	40.7	13.5%
Miscellaneous	1	1	884.5	1	884.5	32.8	N	0.0	0.0%
Perimeter Beam	1	380	0.75	4	1140	42.2	N	0.0	0.0%
Internal Perimeter	1	380	0.5	0.5	95	3.5	N	0.0	0.0%
Total Concrete					8119.5	300.7		40.7	13.5%
Equipment									
Lab Tables	1	1	435	3	1305	24.2	N	0.0	0.0%
Air Compressor	2	3	3	2	36	1.0	N	0.0	0.0%
Water Heater	2	3	3	6	108	2.0	N	0.0	0.0%
Generator	1	6	4	4	96	2.7	N	0.0	0.0%
MCC	6	12	2	8	1152	32.0	N	0.0	0.0%
Total Equipment					2697	61.8		0.0	0.0%
TOTAL SHOP / LAB / OFFICE					10816.5	362.6		40.7	11.2%

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank List										
	Quantity	Length (Feet)	Width or Area (Feet or Square Feet)	Thickness (Feet)	Volume (Cubic Feet)	Crushed Volume (cu. Yd)	Contamination	Contaminated Volume (Cubic Yards)	Percent Contamination	
PRECIPITATION/DRYER SECTION										
Concrete										
Precip Floor	1	180	40	1.5	10800	400.0	Y	400.0	69.2%	
Perimeter Beam	1	40	0.75	4	120	4.4	N	0.0	0.0%	
Internal Perimeter	1	260	0.5	0.5	65	2.4	N	0.0	0.0%	
Miscellaneous	1	1	4625.5	1	4625.5	171.3	Y	171.3	29.6%	
Total Concrete					15610.5	578.166667		571.3	98.8%	
Equipment										
Filter Press	2	12	3	4	288	10.7	Y	10.7	12.9%	
YC Slurry Tank	2	1	89.1	1	178.2	6.0	Y	6.0	7.2%	
Cooling Tower	1				277	7.7	N	0.0	0.0%	
Dryer Vacuum Skid	2				294	8.2	Y	8.2	9.9%	
Fulton Oil Furnaces	2				738	20.5	N	0.0	0.0%	
Conveyors	1				69	1.9	Y	1.9	2.3%	
Scales	2				10	0.3	Y	0.3	0.4%	
Bag Houses	2				736	4.1	Y	4.1	5.0%	
Cool Tower Pump Skid	1				67	1.9	N	0.0	0.0%	
YC Dryer Ass'y	2	12.85	5.5	1	610.6	17.0	Y	17.0	20.6%	
Precip. Tank	4	1	91.8	1	367.2	3.1	Y	3.1	3.8%	
Pumps	8	2	2	1	32	1.2	Y	1.2	1.4%	
Total Equipment					3668	82.4		52.4	63.5%	
TOTAL PRECIPITATION SECTION					19278	660.6		623.7	94.4%	
CHEMICAL STORAGE										
Concrete										
Chem. Floor	1	80	40	0.5	1600	59.3	N	0.0	0.0%	
Perimeter Beam	1	120	0.75	4	360	13.3	N	0.0	0.0%	
Internal Perimeter	1	190	0.5	0.5	47.5	1.8	N	0.0	0.0%	
Miscellaneous	1	1	2193.9	1	2193.9	81.3	N	0.0	0.0%	
Total Concrete					4201.4	155.6		0.0	0.0%	
Equipment										
Soda Ash Tank	1	1	81	1	81	3.0	N	0.0	0.0%	
Bicarb Tank	1	1	56.7	1	56.7	0.2	N	0.0	0.0%	
NaOH Tank	1	1	81	1	81	1.4	N	0.0	0.0%	
NaCl Saturator	1	1	75.6	1	75.6	1.0	N	0.0	0.0%	
Peroxide Tank	1	1	18.9	1	18.9	0.5	N	0.0	0.0%	
Acid Tank	2	1	56.7	1	113.4	2.5	N	0.0	0.0%	
Pumps	6	2	2	1	24	0.9	N	0.0	0.0%	
Total Equipment					451	9.5		0.0	0.0%	
TOTAL CHEMICAL STORAGE					4652	165.060114		0.0	0.0%	

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank List

	Quantity	Length (Feet)	Width or Area (Feet or Square Feet)	Thickness (Feet)	Volume (Cubic Feet)	Crushed Volume (cu. Yd)	Contamination	Contaminated Volume (Cubic Yards)	Percent Contamination
ION EXCHANGE SECTION									
Concrete									
IX Floor A	1	180	80	0.5	7200	266.7	Y	266.7	50.9%
IX Floor B	1	40	40	0.667	1067.2	39.5	Y	39.5	7.5%
Perimeter Beam	1	300	0.75	4	900	33.3	N	0.0	0.0%
Internal Perimeter	1	55	0.5	0.5	13.75	0.5	N	0.0	0.0%
Miscellaneous	1	1	4957	1	4957.08	183.6	Y	183.6	35.1%
Total Concrete					14138	523.6		489.8	93.5%
Equipment									
IX Column	10	1	86.4	1	864	28.2	y	28.2	47.6%
Guard Column	2	1	64.8	1	129.6	5.0	y	5.0	8.4%
Elution Vessel	2	1	86.4	1	172.8	5.6	y	5.6	9.5%
Fresh Eluate Tank	2	1	91.8	1	183.6	1.2	y	1.2	2.0%
Eluate Tank	2	1	91.8	1	183.6	1.1	y	1.1	1.9%
Rich Eluate Tank	2	1	99.9	1	199.8	1.1	y	1.1	1.9%
Fresh Water Tank	2	1	91.8	1	183.6	2.7	N	0.0	0.0%
Resin Water Decant	1	1	35.1	1	35.1	1.6	y	1.6	2.7%
Resin Water Tank	1	1	91.8	1	91.8	1.1	y	1.1	1.9%
Waste Water Tank	2	1	91.8	1	183.6	2.3	y	2.3	3.8%
RW Bag Filter	4	1	0.8	1	3.2	0.0	y	0.0	0.0%
RW Element Filter	4	1	0.8	1	3.2	0.1	y	0.1	0.2%
Eluate Sump Filter	4	1	0.8	1	3.2	0.1	y	0.1	0.2%
Eluate Bag Filter	6	1	0.8	1	4.8	0.2	y	0.2	0.3%
Eluate Element Filter	4	1	0.8	1	3.2	0.1	y	0.1	0.2%
Resin Screen	4	8	4	1	128	4.0	y	4.0	6.8%
IC/PC Pump	12	1	3.7	1	44.4	1.6	y	1.6	2.8%
WDW Pump	1	4	6	2	48	1.8	y	1.8	3.0%
Sump Pump	4	1	1	3	12	0.4	y	0.4	0.8%
Pumps	6	2	2	1	24	0.9	y	0.9	1.5%
Total Equipment					2502	59.2		56.5	95.5%
TOTAL ION EXCHANGE SECTION					16640	582.8		546.3	93.7%

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank List										
	Quantity	Length (Feet)	Width or Area (Feet or Square Feet)	Thickness (Feet)	Volume (Cubic Feet)	Crushed Volume (cu. Yd)	Contamination	Contaminated Volume (Cubic Yards)	Percent Contamination	
RESTORATION SECTION										
Concrete										
Rest. Floor	1	40	80	0.667	2134.4	79.1	Y	79.1	82.9%	
Miscellaneous	1	1	441	1	440.5	16.3	Y	16.3	17.1%	
Total Concrete					2574.9	95.4		95.4	100.0%	
Equipment										
Rest. Column	2	1	75.6	1	151.2	5.6	y	5.6	20.9%	
RO Unit	34	25	0.83	n/a	552	20.4	y	20.4	75.6%	
RO Pump	4	1	3.7	1	14.8	0.5	y	0.5	2.0%	
Sump Pump	1	1	1	3	3	0.1	y	0.1	0.4%	
Pumps	2	2	2	1	8	0.3	y	0.3	1.1%	
Total Equipment					728.602	27.0		27.0	100.0%	
TOTAL RESTORATION SECTION					3303.5	122.4		122.4	100.0%	

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank Calculations

	Quantity	Type	Material	ID (Feet)	Height (Feet)	Unit Volume (Cubic Feet)	Total Volume (Cubic Feet)	Thickness (Inches)	Unit Dry Weight (Pounds)	Total Dry Weight (Pounds)	Unit Crushed Volume (Cubic Yards)	Total Crushed Volume (Cubic Yards)	Vessel Numbers
Pressure Vessels													
Ion Exchange Columns	10	Ellip Hd	CS	9.5	9.5	673	6734	0.625	20000	200000	2.8	28.2	IX - 1-10
Guard Columns	2	Ellip Hd	CS	7	8	308	616	0.625	12500	25000	2.5	5.0	IX - 11/12
Restoration Columns	2	Ellip Hd	CS	9.5	9.5	673	1347	0.625	20000	40000	2.8	5.6	IX - 13/14
Elution Vessels	2	Ellip Hd	CS	9.5	9.5	673	1347	0.625	20000	40000	2.8	5.6	E-1/2
Tanks													
Fresh Eluate Tanks	2	Flat Btm	FRP	10	18	1414	2827	0.270	2,400	4,800	0.6	1.2	T-FE-1/2
Eluate Tanks	2	Flat Btm	FRP	10	16	1257	2513	0.270	2,200	4,400	0.5	1.1	T-IE-1/2
Rich Eluate Tanks	2	Flat Btm	FRP	10	16	1257	2513	0.270	2,200	4,400	0.5	1.1	T-RE-1/2
Fresh Water Tanks	1	Flat Btm	CS	26	26	13804	13804	0.270	2,400	2,400	2.7	2.7	T-FW-1/2
Resin Water Decant	1	Cone Btm	FRP	14	16.5	2540	2540	0.500	6,400	6,400	1.6	1.6	T-RWD
Resin Water Tank	1	Flat Btm	FRP	14	20	3079	3079	0.310	4,500	4,500	1.1	1.1	T-RW
Waste Water Tanks	2	Flat Btm	FRP	14	20	3079	6158	0.310	4,500	9,000	1.1	2.3	T-WW-1/2
Precipitation Tanks	4	Flat Btm	FRP	10	20	1571	6283	0.320	3,000	12,000	0.8	3.1	T-PR -1-4
Permeate Tank	1	Flat Btm	FRP	10	16	1257	1257	0.280	2,200	2,200	0.6	0.6	T-Perm
Y/C Slurry Storage	2	Cone Btm	CS - RL	12.5	19.75	2424	4847	0.313	12,500	25,000	3.0	6.0	T-YC-1/2
Soda Ash Tank	1	Flat Btm	FRP	12	19.5	2205	2205	1.000	9,136	9,136	3.0	3.0	T-SA
Bicarb Mix Tank	1	Flat Btm	FRP	6	6	170	170	0.400	4,000	4,000	0.2	0.2	T-Bicarb
NaCl Saturator	1	Flat Btm	FRP	12	19.67	2225	2225	0.320	3,600	3,600	1.0	1.0	T-NaCl
NaOH Tank	1	Flat Btm	FRP	12	22.3	2522	2522	0.420	4,700	4,700	1.4	1.4	T-NaOH
H2O2 Tank	1	Hor Tank	Alum	10	10	785	785	0.375	2,025	2,025	0.5	0.5	T-H2O2
Acid Tanks	2	Flat Btm	FRP	12	14.3	1617	3235	0.530	4,340	8,680	1.3	2.5	T-HCl-1/2
Filtration													
RW Bag Filter	1	Ellip Hd	304SS	2	3	9	9	0.375	175	175	0.03	0.0	
WDW Bag Filter	4	Ellip Hd	304ss	0.667	3	1	4	0.375	34	138	0.01	0.0	
Rest. Bag Filter	5	Ellip Hd	304SS	4	3	38	188	0.375	567	2,836	0.07		
Slurry Filter Press	2	Ellip Hd	304SS	3	4	144	288	0.375	42,634	85,268	5.33	10.7	

Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Equipment and Tank Calculations

	Quantity	Type	Material	ID (Feet)	Height (Feet)	Unit Volume (Cubic Feet)	Total Volume (Cubic Feet)	Thickness (Inches)	Unit Dry Weight (Pounds)	Total Dry Weight (Pounds)	Unit Crushed Volume (Cubic Yards)	Total Crushed Volume (Cubic Yards)	Vessel Numbers
Pumps													
IC Pumps (60 hp vertical)	6		SS			3.7	22		560	3,360	4	22	P-IC - 1-6
PC Pumps (60 hp verticle)	6		SS			3.7	22		560	3,360	4	22	P-PC - 1-6
RO Pumps (75 hp horizontal)	4		CS/SS			3.7	15		560	2,240	4	15	
Waste Water Pumps (40 hp centrifugal)	2		SS			2	3		100	200	2	3	
Resin Water Pumps (20 hp centrifugal)	4		SS			2	6		265	1,060	2	6	
Waste Disposal Pump (Plunger)	3		CS/SS			23	69		2,400	7,200	23	69	
Sump Pumps (5 hp)	4		SS			1	4		295	1,180	1	4	
Reverse Osmosis													
800 GPM System	34		FRP	0.83	25	16.2	552		150	5,100	0.60	20	RO
Other													
Resin Screens	2		CS	0.833	1.75	1	2	0.125	150	300	2.0	4.0	RT - 1-5
Water Heater	2		CS	2	4	13	25	0.125	100	200	2.0	4.0	WH - 1/2
Air Compressor	2		3	3	3	27	54	0.250	750	1500	27.0	54.0	AC - 1/2
Generator	1		CS			100	100		2,000	2,000	75	75	Gen - 1
Yellowcake Dryer	2		SS	5.5	12.85	305	611		5,000	10,000	8	17	D1-2
Cooling Tower	1		CS			277	277		3,990	3,990	8	8	CT-1
Dryer Vacuum Skid	2		SS			147	294		2,484	4,967	4	8	V-1/2
Fulton Oil Furnaces	2		SS			369	738		6,800	13,600	10	20	OH-1/2
Conveyors	1		CS			69	69		3,330	3,330	2	2	-
Scales	2		CS			5	10		192	384	0.1	0.3	-
Bag Houses	2		SS	6.25	12	368	736	0.135	3,050	6,100	2	4	BH1/2
Cooling Tower Pump Skid	1		CS			67	67		1,300	1,300	2	2	CTP
MCC	6		2	12	8	192	1152		1,500	9,000	144	864	MCC 1-6

FRP =	0.06
CS =	0.28
SS =	0.29
Al =	0.097
Accy Fact	1.1

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Deep Disposal Pipeline Calculations

Assumptions/Items	Deep Disposal Well No. 1	Deep Disposal Well No. 4	Deep Disposal Well No. 3	Total	Source
PIPELINE					
A. Removal					
Total Length (Feet)	18,025	589	400	19,014	
Removal Cost per Foot	... \$1.60	... \$1.60	... \$1.60		Unit Rate
Removal Cost	\$28,793	\$941	\$639	\$30,373	Calculated
Average OD (Inches)	3.9	2.0	2.0		
Chipped Volume Reduction (Cubic Feet per Foot)	0.189	0.130	0.130		Unit Rate
Chipped Volume (Cubic Feet)	3,398	77	52	3,526	Calculated
Volume per Truck Load (Cubic Feet)	540	540	540		
Number of Truck Loads	6.3	0.1	0.1	6.5	Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0		Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0	\$0	Calculated
C. Transport & Disposal					
Landfill					
Transportation					
Percent to be Shipped	0.0%	0.0%	0.0%		
Loads to be Shipped	0.0	0.0	0.0		Calculated
Distance (Miles)	48	48	48		
Cost per Mile	... \$2.83	... \$2.83	... \$2.83		Unit Rate
Transportation Cost	\$0	\$0	\$0	\$0	Calculated
Disposal					
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50		Unit Rate, verified 2013
Load Volume (Cubic Yards)	20	20	20		
Disposal Cost	\$0	\$0	\$0		Calculated
Total Landfill Cost	\$0	\$0	\$0	\$0	Calculated

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Deep Disposal Pipeline Calculations

Assumptions/Items	Deep Disposal Well No. 1	Deep Disposal Well No. 4	Deep Disposal Well No. 3	Total	Source
PIPELINE (continued)					
C. Transport & Disposal (continued)					
Licensed Site					
Transportation					
Percent to be Shipped	100.0%	100.0%	100.0%		Calculated
Loads to be Shipped	6.3	0.1	0.1	6.5	Calculated
Distance (Miles)	105	105	105		
Cost per Mile	105 \$2.83	105 \$2.83	105 \$2.83		Unit Rate
Transportation Cost	\$1,939	\$31	\$31	\$2,001	Calculated
Disposal					
Disposal Cost per Cubic Foot	\$4.16	\$4.16	\$4.16	\$4.16	Unit Rate
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated
Load Volume (Cubic Yards)	20	20	20		
Disposal Cost	\$14,152	\$225	\$225		Calculated
Total Licensed Site Cost	\$16,092	\$255	\$255		Calculated
Total Transport & Disposal Cost	\$16,092	\$255	\$255		Calculated
TOTAL PIPELINE REMOVAL & DISPOSAL COST	\$44,885	\$1,196	\$894	\$46,975	Calculated
MANHOLES					
A. Removal					
Total Quantity	1	1	1	3	
Removal Cost per Manhole	147.93	147.93	147.93		Unit Rate
Removal Cost	\$148	\$148	\$148	\$444	Calculated
Quantity per Truck Load	10	10	10		
Number of Truck Loads	0.1	0.1	0.1	0.3	Calculated
B. Survey & Decontamination					
Percent Requiring Decontamination	0.0%	0.0%	0.0%		
Number of Decontamination Truck Loads	0.0	0.0	0.0	0.0	Calculated
Decontamination Cost per Load	\$0.00	\$0.00	\$0.00		Unit Rate
Decontamination Cost	\$0	\$0	\$0	\$0	Calculated

**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

LOST CREEK ISR, LLC DECOMMISSIONING AND SURFACE RECLAMATION: Deep Disposal Pipeline Calculations						
Assumptions/Items	Deep Disposal Well No. 1	Deep Disposal Well No. 4	Deep Disposal Well No. 3	Total	Source	
MANHOLES (continued)						
C. Transport & Disposal						
Landfill						
Transportation						
Percent to be Shipped	100.0%	100.0%	100.0%			
Loads to be Shipped	0.1	0.1	0.1	0.3	Calculated	
Distance (Miles)	48	48	48		Unit Rate	
Cost per Mile	\$2.83	\$2.83	\$2.93		Calculated	
Transportation Cost	\$14	\$14	\$14	\$42		
Disposal						
Disposal Fee per Cubic Yard	\$13.50	\$13.50	\$13.50		Unit Rate	
Load Volume (Cubic Yards)	20	20	20	20		
Disposal Cost	\$270	\$270	\$270	\$810	Calculated	
Total Landfill Cost	\$284	\$284	\$284	\$852	Calculated	
Licensed Site						
Transportation						
Percent to be Shipped	0.0%	0.0%	0.0%		Calculated	
Loads to be Shipped	0.0	0.0	0.0	0.0	Calculated	
Distance (Miles)	105	105	105		Unit Rate	
Cost per Mile	\$2.93	\$2.93	\$2.93		Unit Rate	
Transportation Cost	\$0	\$0	\$0	\$0	Calculated	
Disposal						
Disposal Cost per Cubic Foot	\$10.50	\$4.16	\$4.16	\$10.50	Unit Rate	
Disposal Fee per Cubic Yard	\$112.32	\$112.32	\$112.32		Calculated	
Load Volume (Cubic Yards)	20	20	20			
Disposal Cost	\$0	\$0	\$0	\$0	Calculated	
Total Licensed Site Cost	\$0	\$0	\$0	\$0	Calculated	
Total Transport & Disposal Cost	\$284	\$284	\$284	\$852	Calculated	
TOTAL MANHOLE REMOVAL & DISPOSAL COST	\$432	\$432	\$432	\$1,296	Calculated	
TOTAL DEEP DISPOSAL WELL PIPELINE REMOVAL AND DISPOSAL COST						
	\$45,317	\$1,628	\$1,326	\$48,271	Calculated	
DEEP DISPOSAL WELL PIPELINE REMOVAL AND DISPOSAL COST PER FOOT						
				\$2.54	Calculated	

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**Table RP-5 Supplement: Lost Creek Construction/Production Schedule for Bond Estimate
Lost Creek Project #788**

Header House	Producers	Injectors	Total Wells	Total Area (ft ²)	Area/Ptn	Thickness (ft ³)	Porosity (%)	Vert. Flare	Horiz. Flare	Pore Volume (gal)
1-1	20	37	57	183,488	9,174	17.5	0.26	1.2	1.2	8,992,556
1-2	22	41	63	205,105	9,323	15.2	0.26	1.2	1.2	8,730,865
1-3	24	45	69	272,049	11,335	17.0	0.26	1.2	1.2	12,951,900
1-4	22	41	63	205,396	9,336	17.0	0.26	1.2	1.2	9,778,637
1-5	22	41	63	205,356	9,334	17.0	0.26	1.2	1.2	9,776,733
1-6	24	45	69	229,184	9,549	17.0	0.26	1.2	1.2	10,911,153
1-7	21	39	60	189,887	9,042	17.0	0.26	1.2	1.2	9,040,274
1-8	25	46	71	237,381	9,495	17.0	0.26	1.2	1.2	11,301,402
1-9	26	48	74	240,885	9,265	17.0	0.26	1.2	1.2	11,468,223
1-10	19	35	54	182,746	9,618	17.0	0.26	1.2	1.2	8,700,300
1-11	28	52	80	0	0	0.0	0	0	0	0
1-12	29	54	83	0	0	0.0	0	0	0	0
	282	523	805	2,151,477	7,629					101,652,044