

December 11, 2012

US Nuclear Regulatory Commission Attn: Mr. Douglas Mandeville 11545 Rockville Pike Two White Flint North, Mailstop T8 F5 Rockville, MD 20852-2738

RE:

License SUA-1548, Docket No. 40-8964

2012-13 Surety Estimate Update for Ruth ISR Project

CAMECO RESOURCES

Project Development 550 N. Poplar Street Suite 100 Casper, WY 82601 USA

Tel: (307) 237 - 2128 Fax: (307) 237 - 2142

www.cameco.com

Dear Mr. Mandeville:

Pursuant to License Condition 9.5, Power Resources, Inc. d/b/a Cameco Resources (Cameco) is herein providing (2) copies of the proposed 2012-13 reclamation surety estimates for the Ruth ISR Project. This surety estimate has been submitted to the Wyoming Department of Environmental Quality (WDEQ) in an annual report dated December 26, 2012.

The Current facility is nonoperational with no current development or operational activities planned for the next surety period. A surety estimate of \$192,000 is proposed, estimated using WDEQ Guideline 12 and actual reclamation costs from Cameco's Smith Ranch Highland operations. If you have any questions or concerns regarding this estimate please feel free to contact Jeanie Wolford at 307-333-7644 or by email at Jeanie wolford@cameco.com.

Sincerely,

Cameco Resources

Josh Leftwich

Director of SHEQ

Enclosures:

Appendix A: 2012-13 Ruth Reclamation Surety Bond Estimate

JL:jmw

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2012-13 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

Appendix A TOTAL DECOMMISSIONING AND RECLAMATION COST ESTIMATE

TOTAL RECLAMATION, ROUNDED UP	\$192,000
CONTRACTOR PROFIT + OVERHEAD + MOBILIZATION COSTS (10%) ^b	\$14,185
PROJECT MANAGEMENT + MISCELLANEOUS COSTS (25%) ^a	\$35,463
CONTINGENCY:	
SUBTOTAL	\$141,851
V. FINAL STATUS SURVEY REPORT	\$10,000
IV. WELL PLUGGING AND ABANDONMENT	\$6,864
III. MISC. SURFACE RECLAMATION COSTS	\$9,931
II. EVAPORATION POND DECOMMISSIONING COSTS	\$37,707
I. BUILDING DEMOLITION AND DISPOSAL COSTS	\$77,349

^a Based on WDEQ-LQD Guideline No. 12 , Section II(B)(12)(except b) and (13).

NOTE: Salvage value is not included in any cost estimates.

^b Based on WDEQ-LQD Guideline No. 12, Section II(B)(12)(b).

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES Process Wa

RUTH ISR PROJECT - CAMECO RE I. BUILDING DEMOLITION AND DISPOSAL	Process Building	Warehouse Building	Generator Building	
A. Demolition				
1 Equipment				
Equipment remaining on site includes 6 tanks/vessels and injection manifold.				
Subtotal Equipment Dismantling	\$8,000	\$0	\$0	
2 Building				
Building Volume (CF)	80,000	6,000	1500	
Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/CF)	\$0.278	\$0.278	\$0.278	
Subtotal Building Demolition		\$1,667	\$417	
3 Concrete Floor	ΨΖΖ,ΣΖΟ	Ψ1,007	ΨΤΙ	
Concrete Floor Area, SF	4,000	600	150	
Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/SF)	\$5.31	\$5.31	\$5.3	
Subtotal Concrete Floor Demolition	\$21,229	\$3,184	\$796	
4 Concrete Footing				
Concrete Footing Length (ft)	280	0	(
Demolition Unit Cost per WDEQ Guideline 12, App. K (\$/lin.ft)	\$19.78	\$19.78	\$19.78	
Subtotal Concrete Footing Demolition	\$5,539	\$0	\$0	
Subtotal Demolition per Building	\$56,994	\$4,851	\$1,213	
Total Demolition			\$63,058	
B. Disposal				
1 Equipment				
Equipment Volume (CY)	15			
Disposal Unit Cost (\$/ton) a	\$0	\$0	\$(
Convert waste volume to tons (0.24 tons / CY) ^b	4			
QTY. Trips	2	0	(
Transportation Unit Cost (\$/trip)	\$1,000	\$1,000	\$1,000	
Subtotal Equipment Disposal 2 Buildings On-Site	\$2,000	\$0	\$0	
Assume Thickness of building material (ft)	0.75	0.5	0.5	
Building Length (ft)	100	30	15	
Building Width (ft)	40	20	10	
Building Height (ft)	20	10	10	
Volume of Building Materials (CY)	267	30	12	
Volume for Disposal (assume 25% swell factor) (CY)	334	38	15	
Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/CY)	\$8.25	\$8.25	\$8.25	
Subtotal Building Disposal	\$2,755	\$313	\$124	
3 Concrete Floor				
Area of Concrete Floor, SF	4,000	600	150	
Average Thickness of Concrete Floor (ft)	0.5	0.5	0.5	
Volume of Concrete Floor (CY)	74	11	3	
a. On-Site Disposal				
Percentage (%) ^b	90%	100%	100%	
Volume for Disposal (CY)	66.6	11	3	
Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/CY)	\$8.25	\$8.25	\$8.25	
Subtotal On-Site Disposal	\$549	\$91	\$25	

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

I. BUILDING DEMOLITION AND DISPOSAL	Process Building	Warehouse Building	Generator Building
b. NRC-Licensed Facility			
Percentage (%) ^c	10%	0%	0%
Disposal Volume (CY)	7.4	0	0
Assume 50% volume swell factor (CY)	11	0	0
Disposal Unit Cost (\$/ton) a	147.76	147.76	147.76
Convert waste volume to tons (0.24 tons / CY) ^b	2.64	0	0
QTY. Trips	1	0	0
Transportation Unit Cost (\$/trip)	\$138	\$138	\$138
Subtotal NRC-Licensed Facility Disposal	\$528	\$0	\$0
Subtotal Concrete Floor Disposal	\$1,077	\$91	\$25
4 Concrete Footing On-Site			
Length Concrete Footing (ft)	280	0	0
Average Thickness Concrete Footing (ft)	4	4	4
Average Width Concrete Footing (ft)	1	1	1
Concrete Footing Volume (CY)	41	0	0
Disposal Unit Cost per WDEQ Guideline 12, App. K (\$/CY)	\$8.25	\$8.25	\$8.25
Subtotal Concrete Footing Disposal	\$338	\$0	\$0
Subtotal Disposal per Building	\$6,170	\$404	\$149
Total Disposal			\$6,723
C. Radiation Surveys and Soil Sampling			
Assume: environmental and personnel monitoring (TLD) not			
required, based on NRC regulations and ambient levels of radiation on-site.			
Equipment (Alpha/Gamma Surveys and Smear Samples)			
QTY. Weeks	2	0	0
Rental Rate (\$/week)	\$250	\$250	\$250
Subtotal Equipment	\$500	\$0	\$0
2 Labor (Surveys and Soil Sampling)			
QTY. Hours	80	0	0
Labor, per Mountain States Employers Council	\$34.80	\$34.80	\$34.80
Subtotal Labor	\$2,784	\$0	\$0
3 Analytical			
QTY. Samples	5	0	0
Ra-226 Analytical (\$/sample)	\$100	\$100	\$100
Subtotal Analytical	\$500	\$0	\$0
Total Radiation Survey + Soil Sampling			\$3,784
SUBTOTAL INDIVIDUAL BLDG. DEMOLITION + DISPOSAL COSTS	\$66,948	\$5,255	\$5,146
TOTAL ALL BUILDING DEMOLITION + DISPOSAL COST			\$77,349

Notes:

- a Per Byproduct Material Disposal Agreement with Dennison Mines
- b Florida Dept. Environmental Protection: Converting C&D Debris from Volume to Weight, a Fact Sheet for C&D Debris Facility Operators [www.floridacenter.org/C&Dconversion.html]
- c Based on radiation surveys conducted by Pathfinder Mines Co. during October November 2001 (see site transfer letter dated November 2. 2001).

CF - cubic feet

lin. ft - linear feet

CY - cubic yards

SF - square feet

ft - feet

QTY - quantity

in - inches vers: 12/18/2012

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2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

II. E	VAF	ORATION POND DECOMMISSIONING	Pond No. 1	Pond No. 2
A.	Ву	product Material Removal and Loading		
		Volume of By-product Material		
		Area of Pond Bottom (SF)	22,138	21,947
	T	a. Area with Fill (SF)	2,813	0
		Average Fill Thickness (in)	3.5	0
		Volume of Fill (CY)	30	0
		b. Remaining Area with Pond Residue (SF)	19,325	21,947
		Average Pond Residue Thickness (in)	1	0.5
		Volume of Pond Residue (CY)	60	34
		c. Area of Liner (SF)	22,138	21,947
		Thickness of Liner (in)	0.036	0.036
	Τ	Volume of Liner (CY)	2.5	2.4
		Volume of Liner Assuming 25% Void Space (CY)	3	3
	T-	d. Area of Contaminated Sump and Drain (SF)	0	
		Length of Sump and Drain (ft)	0	240
	T^{-}	Volume of Sump and Drain (CY)	0	9
	 	e. Diameter of Contaminated Soil (ft)	0	10
	一	Contaminated Soil Thickness (in)	0	6
	┢	Volume of Contaminated Soil (CY)	0	1
		Subtotal Volume By-product Material (CY)	93	47
	2	Equipment (Front-End Loader)		
	Г	QTY. Hours	40	20
		Operating (\$/hr),	\$116	\$116
		Loader Cat 924G Loader Guideline 12		
	\vdash	Subtotal Equipment	\$4,639	\$2,320
	3	Labor, per Mountain States Employers Council	+ 1,222	<u> </u>
	<u> </u>	QTY. Hours	40	20
	_	QTY. Laborers	3	3
	-	Labor (\$/hr)	\$37.70	\$37.70
	-	Subtotal Labor	\$4,524	\$2,262
	┝╴	By-product Material Removal and Loading Per Pond	\$9,163	\$4,582
	┢	Total By-product Material Removal + Loading		\$13,745
В.	Tra	nsportation and Disposal		
		al Volume of Byproduct Material (CY)	93	47
	- -	Transportation & Disposal		
		Volume of Soil per Trip (CY/trip)	30	30
	\vdash	QTY. Trips	3	2
	\vdash	per Trip (\$/trip)	\$301	\$301
	-	Subtotal Transportation + Disposal per pond	\$902.51	\$602
		Total Transportation + Disposal	Ţ	\$1,504

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

II. E	VAP	PORATION POND DECOMMISSIONING	Pond No. 1	Pond No. 2
C.	Rip	pping		
	Are	ea (acres)	0.5	0.:
	Rip	ping Unit Cost per WDEQ Guideline 12, App. I (\$/acre)	\$881.07	\$881.0
		Subtotal Ripping per por	id \$441	\$44
-		Total Rippin	9	\$882
D.	Bac	ckfilling		
	Vol	lume of Soil (CY)	5400	5400
	Bac	ckfilling Unit Cost per WDEQ Guideline 12, App. E (\$/CY)	\$0.266	\$0.266
		sume: Surface grade = 0%; Avg. haul distance = 100 ft.		
		Subtotal Backfilling per por	id \$1,436	\$1,436
		Total Backfillin	3	\$2,872
E.	Gra	ading		
		ea (acres)	1.5	1.5
		ugh Grading Unit Cost per WDEQ Guideline 12, App. M (\$/acre)	\$93.42	\$93.42
		al Grading Unit Cost per WDEQ Guideline 12, App. G (\$/acre)	\$75.25	\$75.25
		Subtotal Grading per por	id \$253	\$253
	П	Total Gradin	a	\$500
F.	Re	placement of Topsoil		
		ume of Topsoil (CY)	3756	3756
		olication Unit Cost per WDEQ Guideline No.12, App.E (\$/CY)	\$1.409	\$1.409
	Ass	sume Surface grade = 0%, Avg. haul distance = 400 ft.		
		Subtotal Topsoil Replacement per por	d \$5,292	\$5,292
	\vdash	Total Topsoil Replacemen		\$10,584
G.	Sec	eding/Revegetation		, , , , , ,
		ea (acres)	1.5	1.8
		cing, Seeding, Mulching, \$/acre	\$606	\$606
		from Smith Ranch-Highland 2010 actual cost		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	⇈	Subtotal Seeding/Revegetation per por	d \$909	\$909
	⇈	Total Seeding/Revegetation	1	\$1,818
Н.	Fen	nce Removal		
	Len	ngth (ft)	800	800
		nce Removal Unit Cost per WDEQ Guideline 12, App. H (\$/ft)	\$0.32	\$0.32
		Subtotal Fence Removal per por	d \$256	\$256
	\Box	Total Fence Remova	1	\$512
ī.	Rac	diation Surveys and Soil Sampling		
	1	Assume: environmental and personnel monitoring (TLD)		
]]	not required, based on NRC regulations and ambient leve	ls	
	1 1	of radiation on-site.		
	1	Equipment (Alpha/Gamma Surveys and Smear Samples)		
		QTY. Weeks	1	
		Rental Rate (\$/week)	\$250	\$250
	\dagger	Subtotal Equipmen		\$250
	2	Labor (Surveys and Soil Sampling)	7_00	+-0
		QTY. Hours	40	41
		Labor, per WDEQ Guideline 12 App's. N & O	\$34.80	\$34.80
		Labor, por trollar cardonio 12/10po. It a c	, 40 7.00	$\psi \cup \tau . \cup \iota$

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

II. EV	/AF	ORA	TION POND DECOMMISSIONING	Pond No. 1	Pond No. 2
	3 Analytical				
		QTY.	Samples	10	10
		Ra-2:	26 Analytical (\$/sample)	\$100	\$100
			Subtotal Analytical per pond	\$1,000	\$1,000
			Subtotal Radiation Survey + Soil Sampling per pond	\$2,642	\$2,642
			Total Radiation Survey + Soil Sampling		\$5,284
	•	SUBT	OTAL EVAPORATION POND DECOMMISSIONING COSTS	<u>\$21,295</u>	<u>\$16,413</u>
		1	TOTAL EVAPORATION POND DECOMMISSIONING COST		\$37,707

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

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III. N	MISC. SURFACE RECLAMATION	Unit Cost	Units	Est Uty	Subtotal
A.	Buildings, Roads, and Parking Areas	ĺ			
	1 Gravel Removal	\$1.080	CY	1500	\$1,620
	Removal Unit Cost per WDEQ Guideline 12, App. C: assume				
	surface Grade = 0%, avg. haul distance = 500 ft.				
	2 Ripping	\$1,209.63	acre	2	\$2,419
	Ripping Unit Cost per WDEQ Guideline 12, App. I1				
	3 Topsoil Replacement	\$1.067	CY	2070	\$2,209
			·		
	Application Unit Cost per WDEQ Guideline No.12, App. E:				
	assume surface grade = 0%, avg. haul distance = 400 ft.				
	4 Seeding/Revegetation				
L	Discing, Seeding, Mulching, \$/acre	\$606	acre	2	\$1,212
L	from Smith Ranch-Highland '08 actual cost				
ļ	Subtotal Seeding/Revegetation				\$1,212
	5 Fence Removal	\$0.32	foot	2880	\$922
	Removal Unit Cost per WDEQ Guideline 12, App. H				
	Total Bldgs + Roads + Pkg Area Surface Reclamation				\$8,382
B.	R&D Wellfield Area				
 	1 Replacement of Topsoil	\$0.902	CY	1180	\$1,064
<u> </u>	1 Replacement of Forces	\$0.002		1100	Ψ1,00-1
	Application Unit Cost per WDEQ Guideline No.12, App. E:				
	assume surface grade = 0%, avg. haul distance = 350 ft.			1	
	2 Seeding/Revegetation			<u> </u>	
	Discing, Seeding, Mulching, \$/acre	\$606	acre	0.8	\$485
	from Smith Ranch-Highland '08 actual cost				
	Subtotal Seeding/Revegetation			_	\$485
	Total R&D Wellfield Area Surface Reclamation	, , ,			\$1,549
	TOTAL MISC. SURFACE RECLAMATION COSTS				

2012-2013 RECLAMATION SURETY BOND ESTIMATE WDEQ PERMIT No. 631 ANNUAL REPORT / NRC SUA-1548 RUTH ISR PROJECT - CAMECO RESOURCES

IV. WELL PLUGGING AND ABANDONMENT

TOTAL PLUGGING + RECLAMATION COSTS	•			\$6,864
Site Smoothing & Re-Seeding	\$50.00	site	3	\$150
B. Surface Reclamation ^a				
Subtotal Plugging Costs				
Remove Top Portion Casing	\$30.00	well	3	\$90
Plug Wells (based on WSEO records), average well depth 552'	\$4.00	linear foot	3	\$6,624
Quantity Wells (based on 12/08 review of WSEO records)				
A. Well Plugging				
	Unit Cost	Units	Estimated Quantity	Subtotal
	1.1	1	Cationatad	

Based on WDEQ Guideline 12 (November, 2011), Appendix L

^a Seeding of abandoned well locations to be completed in conjunction with seeding of Exploration Camp and two-track roads.

Master Cost Sheet GL 12 and Associated Costs vs. 11/2012

Miscellaneous Wells					***************************************
Total Number of Wells	4				<u></u>
Average Well Depth (ft)	550	0	0	0	0
Average Diameter of Casing (inches)	5	0	5	5	5
Delineation Holes Estimated Next Report Period	0	0	0	0	0
Length of Fencing (ft)	0	0		0	0
Number of Deep Disposal Wells	0				
Number of Header Houses	0	0			,

Electrical Costs	2012 Actual	
Power cost	\$0.0554	kwHr
Kilowatt to Horsepower	0.746	Kw/HP
Horsepower per gallon per minute	0.167	HP/gpm
Natural Gas	\$4.94	per MMBTU
Propane	\$26.06	per MMBTU

	Inc 42%	benefits		
		(i.e., overhea	ad)	
Environmental Manager/RSO	\$43.00	\$62.35	hour	
Restoration Manager/Hydrologist	\$35.00	\$50.75	hour	
Operator	\$26.00	\$37.70	hour	<u> </u>
Laborer	\$23.00	\$33.35	hour	
Engineer	\$36.00	\$52.20	hour	
Radiation/Environmental Engineering Technician	\$24.00	\$34.80	hour	

Chemical Costs (Cost derived from S	SRH 2012 Actu	al
Antiscalant for RO (HyperSperse)	\$34.58	gal
Antiscalant for RO (ScaleTrol)	\$43.59	gal
Sodium Sulfide	\$0.51	pound
Methanol	\$2.43	gal
Cement	\$9.17	sack
Bentonite Tubes	\$2.90	tube
Plug Gel	\$8.00	sack
Well Cap	\$7.50	each
Hydrochloric Acid	\$0.20	pound
Analytical Costs		
Guideline 8 (contract lab		ļ
adjusted for current contract cost)	\$337.00	analysis
6 parameter (in-house) Est Rate (CPI)	\$100.00	analysis
Other (radon, bio, etc.) Est Rate (CPI)	\$1,000.00	month

Equipment Costs						
			Repair	Fuel	Mob &	
	Base Rental Rate	Labor Costs		<u>Costs</u>	<u>Demob</u>	 _
Equipment	<u>(\$/hr)</u>	<u>(\$/hr)</u>	Costs (\$/hr)	(\$/hr)	<u>(\$/hr)</u>	Total (\$/hr)
Cat 924G Loader	\$52.56	N/A	inc	inc	inc.	\$52.56
Cat 416 Backhoe	\$35.84	N/A	inc	inc	inc.	\$35.84
Trailer Mounted Brush Chipper	\$37.60	N/A	inc	inc	inc	\$37.60
Cat D8T Bulldozer, Semi-U	\$207.17	N/A	inc	inc	inc.	\$207.17
Pulling Unit	\$37.83	inc	inc	inc	inc	\$37.83
MIT Unit	\$30.42	N/A	inc	inc	inc	\$30.42
Drill Rig (workover, repair, P&A) w	\$200.00	inc	inc	inc	inc	\$200.00
Goose Neck Trailer	\$17.61	N/A	inc	inc	inc.	\$17.61
Manlift Rental	\$53.10	inc	inc	inc	inc	\$53.10
Cementer	\$14.30	N/A	inc	inc	inc.	\$14.30
Crane Rental with Operator	\$132.85	inc	inc	inc	inc	\$132.85
Cat 320C L Trackhoe	\$100.85	N/A	inc	inc	inc	\$100.85
Concrete Jaws Labounty - CP-	\$18.22	N/A	inc	inc	inc	\$18.22
Pick-up Truck 3/4 ton 4X4	\$32.91	N/A	inc	inc	inc	\$32.91

Master Cost Sheet GL 12 and Associated Costs vs. 11/2012

Hose Reel	\$62.50	N/A	inc	inc	inc	\$62.50
Bobcat S250 Skid Steer Loade	\$35.55	N/A	inc	inc	inc	\$35.55
Cat 14H Grader - 14' Blade	\$117.73	N/A	inc	inc	inc	\$117.73
Cat 615C Elevating Scarper	\$189.21	N/A	inc	inc	inc	\$189.21
Trailer Mounted Brush Chipper	\$37.60	N/A	inc	inc	inc	\$37.60
Basis:						
Drill rig based on current 2010 contra	acts					
Equipment costs are FHWA rates, fro	om the Equipment Watch				l	
Rental Rate Blue Book, dated June 7	, 2012. Rate is the month!	У				
ownership cost divided by 176 plus the			\$3.230	gallon		
operating cost and is the standard use			\$3.000	gallon		

Waste Disposal Costs					***************************************	1		
Disposal Costs are Based or	the Current Centre	at With Doni	con Minos	acad thro	uah 2015			
Tansportation is Calculated 1		st with Dein	SOU MILIES	good ano	ugii zu iə			
Tailsportation is Calculated	IIIII SKII	T	1	Density		<u></u>	T	ı ————————————————————————————————————
) 	Correction	Disposal			Total
				Factor	Fee per			Transport
		Í		(Tons/Yd3		Transport	ł	ation and
Waste Form		Fee		1	Yard	Cost	{	Disposal
VVasce i oiiii		1.00		1	1010	0031		Disposai
Soil, Concrete, Bulk Byproduct Ma	aterial	\$147.76	per Ton	1.1	\$162.54	\$138.30	per Yd3	\$300.84
								\$11.14
Unpackaged Bulk Byproduct Mate	erial (e.g., pipe)	\$168.49	per Ton	0.42	\$70.77	\$138.30	per Yd3	\$209.07
							L	\$7.74
Solid Waste (landfill)		\$0.00827	per Lb			Incl.	per Lb	\$0.00827
Solid Waste (landfill)		\$133.75	per Load			Incl.	per Load	\$133.75
Void Factor (for disposal)		1.25						
Transportation Cost per load		\$2,800	yrds/load	30	yd			
Bin Rental (90 days @ \$13.00 per	r day)	\$1,170						
Decontamination Fee		\$170	per Load					
Unloading Fee		\$165	per Load					
Total Transportation		\$4,305			,			
Load Correction Factors - differen	ce between solid materia	at and when it	ie broken ber	cause of air			ļ	
Load Correction Factors - different	Pounds/CY	and when it	is blokell bet	I				
Material		Broken (Loose	% Dif	Load Factor	•			
Waterial	Colid (Balik)	pronen (2005)	70 011	Load I dolo				
Granite	4536	2781	39%	0.61				
Limestone	4401	2619	40%	0.60				
Sandstone	3915	2538	35%	0.65				
Concrete	3996	2176	46%	0.54				
Sand & gravel	2700	2400	11%	0.89				

Guideline No. 12 Unit Costs (Includ Paragraph 12, Miscellaneous (Admini			ency)		
Extrapolated percentage based on nu		l conting	1	15	percent
App K, Cost Estimates for Demolition		Iroad Spurs	and Facilities Buildin	qs	,
Task	Cost per unit		ional Cost Adjustmen		Cost per Un
Mixture of Types	\$0.29	ft3	0.958	\$0.278	ft3
Explosive Demolition, Concrete or	0.29	ft3	0.958	\$0.278	
Disposal (Average)	9.92	су	0.958	\$9.503	су
City Landfill Dump Charges	\$82.00	ton	0.958	\$78.556	ton
Concrete Footings and Foundations			0.958	\$0.000	
6" Thick with Rebar	5.54	ft2	0.958	\$5.307	ft2
Footings - 2' Thick, 3' Wide	20.65	lin. ft.	0.958	\$19.783	lin. ft.
Concrete Disposal On-Site	8.61	су	0.958	\$8.248	су
Caterpillar 980G Front End					
Loader (GL 12 App. J)	115.98	hr	1	ĺ	}
Dumptruck (10-12 yd3) (GL 12					
App. J)	77.78	hr			ļ
L City Landfill Dump Charges x density	correction factor		0.42	\$34.44	
App C, Calculations for Moving Mater	als with a Caterpilla	637G Pus	h-Pull Scraper Fleet	Operating	Cost per

Master Cost Sheet GL 12 and Associated Costs vs. 11/2012

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