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DENVER
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LOS ANGELES
LOS CABOS
ORANGE COUNTY
PHOENIX
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SALT LAKE CITY
TUCSON

April 1, 2015

Dana Dean
Associate Director
Utah Division of Oil, Gas & Mining
1594 West North Temple
Salt Lake City, Utah 84116

RECEIVED
APR 01 2015
DIV. OF OIL, GAS & MINING

Re: Response to Division Order, Coal Hollow Mine,
Permit No. C/025/00005

Dear Associate Director Dean:

On behalf of Alton Coal Development, LLC ("ACD"), attached for our discussion today are preliminary, draft updated reclamation bond cost estimates in response to item #4 of the Division Order dated February 3, 2015. Also attached are the line item bonding costs requested in the March 30, 2015 Conditional Approval Decision. We look forward to reviewing these preliminary bond calculations with you.

We appreciate your consideration in this matter.

Sincerely,

Snell & Wilmer

/s/ Denise A. Dragoo

Denise A. Dragoo

DAD:mkm

Enclosures

cc: Daron Haddock
Steve Alder, Esq.

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Equipment Cost Data

Equipment Description	Equipment Cost $/hr	Equip + Labor Cost $/hr
7 yd. Excavator (385C LME)	$97.83	$134.32
40 Ton (30 CY) Haul Truck (769C)	$58.88	$94.25
5,000 Gal. Water Truck	$37.78	$74.27
14 Grader	$53.34	$89.83
D10 Dozer	$112.03	$148.52
D7 Dozer	$60.46	$96.95

Sourced from Cost Mine 2014 Coal Cost Guide and 2014 Mine and Mill Equipment Costs

Labor Cost Data

Manpower Type	Base Wage ($/hr)	Labor Cost @ 36% burden ($/hr)
Heavy Equipment Operator	$26.83	$36.49
Truck Drivers	$26.01	$35.37

Labor Data from 2014 Coal Cost Guide Table LA-6 for Western Surface Coal Mines (Non-Union)

Unit Cost Data

Movement Type	Cost/BCY	Cost/LCY	Unit Swell Factor	
Rehandle with Truck/Shovel	$ 1.08	$ 0.98	10.7%	
Subsoil	$ 1.04	$ 0.97	7.2%	
Topsoil	$ 1.04	$ 0.97	7.2%	
		Cost/M.S.F		
Mulching		$ 60.23		RS Means Heavy Constr., 32 91 13.16 0350 (2015 Bare)
Seeding		$ 25.75		RS Means Heavy Constr., 32 92 19.14 3700 (2015 Bare)

Unit Costs calculated from FPC production model using 2014 cost data and updated GEM swell factors

Indirect Cost Factor
26.8%

Escalation Factor 2014 to 2017
1.058089859

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Stage of Reclamation / Release Application	Pits Included in Release Application	Phase 1 Bond Amount	Phase 2 Bond Amount	Phase 3 Bond Amount	Facilities Bond Amount	Total Bond Amount	Bond Remaining After Release	*All amounts escalated to 2017	Current Bond Amount Held
Beginning Worst Case Scenario Bond Amount (all pits excavated)		**$ 31,500,786**	**$ 2,231,311**	**$ 514,569**	**$ 1,482,798**	**$ 35,325,457**			**$ 12,750,000**
January 2015 Release Submission									
	Phase 1 Pit 3	$ 2,411,464				$ 2,411,464			
	Phase 1 Pit 5	$ 1,406,718				$ 1,406,718			
	Phase 1 Pit 6	$ 2,758,583				$ 2,758,583			
	Phase 1 Pit 25	$ 1,371,116				$ 1,371,116			
	Phase 1 Pit 26	$ 963,947				$ 963,947			
	Phase 1 Pit 27	$ 1,010,720				$ 1,010,720			
	Phase 1 Pit 28	$ 1,240,787				$ 1,240,787			
	Subtotal	**$ 11,163,335**	**$ -**	**$ -**		**$ 11,163,335**	**$ 24,162,123**		
May 2015 Release Submission									
	Phase 1 Pit 1	$ 1,033,495				$ 1,033,495			
	Phase 1 Pit 2	$ 1,009,851				$ 1,009,851			
	Phase 1 Pit 4	$ 679,054				$ 679,054			
	Phase 1 Pit 7	$ 3,557,943				$ 3,557,943			
	Phase 1 Pit 8	$ 1,490,292				$ 1,490,292			
	Phase 1 Pit 20	$ 898,196				$ 898,196			
	Phase 1 Pit 21	$ 840,352				$ 840,352			
	Phase 1 Pit 22	$ 1,114,392				$ 1,114,392			
	Phase 1 Pit 23	$ 887,513				$ 887,513			
	Phase 1 Pit 24	$ 772,320				$ 772,320			
	Subtotal	**$ 12,283,408**	**$ -**	**$ -**		**$ 12,283,408**	**$ 11,878,714**		
Q3/4 2015 Release Submission									
	Phase 1 Pit 9	$ 1,282,267				$ 1,282,267			
	Phase 1 HWT 1	$ 2,046,805				$ 2,046,805			
	Phase 1 HWT 2	$ 1,432,206				$ 1,432,206			
	Phase 1 HWT 3	$ 1,199,811				$ 1,199,811			
	Subtotal	**$ 5,961,089**	**$ -**	**$ -**		**$ 5,961,089**	**$ 5,917,625**		
2016 Release Submission									
	Phase 1 & 2 SURF1	$ -	$ 63,909			$ 63,909			

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	Phase 1 & 2 SURF4	$ -	$ 16,892			$ 16,892	
	Phase 1 & 2 SURF5	$ -	$ 57,165			$ 57,165	
	Phase 1 & 2 SURF6	$ -	$ 48,604			$ 48,604	
	Phase 1 & 2 SURF7	$ -	$ 7,836			$ 7,836	
	Phase 1 & 2 SPOIL1	$ 42,567	$ 37,019			$ 79,586	
	Phase 1 & 2 SPOIL2	$ 57,803	$ 50,269			$ 108,072	
	Phase 1 & 2 SPOIL3	$ 17,234	$ 14,988			$ 32,222	
	Phase 1 & 2 SPOIL4	$ 23,407	$ 20,356			$ 43,762	
	Phase 1 & 2 SPOIL5	$ 56,001	$ 48,702			$ 104,703	
	Phase 1 & 2 SPOIL6	$ 5,520	$ 4,801			$ 10,321	
	Phase 1 & 2 SPOIL7	$ 14,818	$ 12,886			$ 27,704	
	Phase 1 & 2 SPOIL8	$ 15,733	$ 13,683			$ 29,416	
	Subtotal	**$ 233,085**	**$ 397,110**	**$ -**		**$ 630,194**	**$ 5,287,431**
2017 Release Submission							
	Phase 2 HWT 1		$ 78,054			$ 78,054	
	Phase 2 HWT 2		$ 56,329			$ 56,329	
	Phase 2 HWT 3		$ 60,204			$ 60,204	
	Phase 2 Pit 1		$ 42,090			$ 42,090	
	Phase 2 Pit 2		$ 54,074			$ 54,074	
	Phase 2 Pit 3		$ 45,833			$ 45,833	
	Phase 2 Pit 4		$ 41,035			$ 41,035	
	Phase 2 Pit 5		$ 43,759			$ 43,759	
	Phase 2 Pit 6		$ 88,299			$ 88,299	
	Phase 2 Pit 7		$ 41,051			$ 41,051	
	Phase 2 Pit 8		$ 41,051			$ 41,051	
	Phase 2 Pit 9		$ 101,271			$ 101,271	
	Phase 2 Pit 10		$ 129,340			$ 129,340	
	Phase 2 Pit 20		$ 42,184			$ 42,184	
	Phase 2 Pit 21		$ 29,344			$ 29,344	
	Phase 2 Pit 22		$ 34,724			$ 34,724	
	Phase 2 Pit 23		$ 29,653			$ 29,653	
	Phase 2 Pit 24		$ 29,874			$ 29,874	
	Phase 2 Pit 25		$ 44,176			$ 44,176	
	Phase 2 Pit 26		$ 34,140			$ 34,140	

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Phase 2 Pit 27		$ 35,819			$ 35,819			
Phase 2 Pit 28		$ 42,603			$ 42,603			
Subtotal	**$ -**	**$ 635,231**	**$ -**		**$ 635,231**	**$**	**4,652,200**	Long Term Amount Remaining to cover

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End of 2015 Projected Released	End of 2016 Projected Released	End of 2015 Projected Released
$ 6,832,375	$ 7,462,569	$ 8,097,800

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Phase 3, Pit 10 portal, facilities, loadout, etc.

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Facilities Reclamation Cost Estimate

Concrete Demolition

Item	Unit	Quantity	Unit Cost ($)	Cost	**Cost Data Reference
Office (footer)	lft	500	$21.40	$10,700	RSMeans Building Constr., 02 41 16.17 1140
Shop (footer)	lft	616	$25.68	$15,819	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Shop (foundation)	ft^2	3,080	$1.06	$3,252	RSMeans Building Constr., 02 41 16.17 2100 & 2200
Shop (floor)	ft^2	20,000	$0.80	$16,000	RSMeans Building Constr., 02 41 16.17 0440
Wash Bay (footer)	lft	244	$25.68	$6,266	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Wash Bay (foundation)	ft^2	660	$1.06	$697	RSMeans Building Constr., 02 41 16.17 2100 & 2200
Wash Bay (floor & sump)	ft^2	3,100	$0.80	$2,480	RSMeans Building Constr., 02 41 16.17 0440
Fuel Storage (slab)	yd^3	111	$109.55	$12,172	RSMeans Heavy Constr., 03 05 05.10 0060
Fuel Storage (containment wall)	yd^3	9	$109.55	$974	RSMeans Heavy Constr., 03 05 05.10 0060
Oil Storage (slab)	yd^3	89	$109.55	$9,738	RSMeans Heavy Constr., 03 05 05.10 0060
Oil Storage (containment wall)	yd^3	12	$109.55	$1,339	RSMeans Heavy Constr., 03 05 05.10 0060
Coal Hopper/Feeder Breaker (Tunnel Access)	yd^3	95	$109.55	$10,387	RSMeans Heavy Constr., 03 05 05.10 0060
Coal Hopper/Feeder Breaker (Hopper Supports)	yd^3	190	$109.55	$20,774	RSMeans Heavy Constr., 03 05 05.10 0060
Coal Hopper/Feeder Breaker (Belt Tunnel)	yd^3	133	$109.55	$14,542	RSMeans Heavy Constr., 03 05 05.10 0060
Crusher Building (Footer)	lft	80	$25.68	$2,054	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Feed Conveyor (Support Footers)	lft	30	$25.68	$770	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Reclaim Belt (Support Footers)	lft	25	$25.68	$642	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Loadout (Footers)	lft	72	$25.68	$1,849	RSMeans Building Constr., 02 41 16.17 1140 & 1220
Loadout (Scale Footer)	lft	60	$25.68	$1,541	RSMeans Building Constr., 02 41 16.17 1140 & 1220

Concrete Disposal

*Concrete Disposal (All Facilities)	yd^3	1,551	$15.70	$24,346	RSMeans Building Constr., 02 41 16.17 4250

Subtotal Concrete Demolition & Disposal	**$156,342**

*Concrete is disposed of on site (in pits) within five miles of facilities

**All cost data is from the 2015 editions of either the RS Means Heavy Construction or Building Construction Cost Data Manuals (Total Bare Cost)

Facilities Reclamation Cost Estimate

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Structure Demolition & Disposal

Item	*Unit	Quantity	Unit Cost ($)	Cost	**Cost Data Reference
Office	ft^3	150,000	$0.30	$45,000	RSMeans Heavy Constr., 02 41 16.13 0100
Office (Sewage Tank)	Ea.	1	$3,455.00	$3,455	RSMeans Heavy Constr., 02 65 10.30 1233 & 1213
Shop	ft^3	1,000,000	$0.28	$280,000	RSMeans Heavy Constr., 02 41 16.13 0020
Wash Bay	ft^3	150,000	$0.28	$42,000	RSMeans Heavy Constr., 02 41 16.13 0020
Fuel Storage (3 tanks)	Ea.	3	$2,370.00	$7,110	RSMeans Heavy Constr., 02 65 10.30 0130 & 1029
Coal Hopper/Feeder Breaker (Demolition)	Ton	64	$186.50	$11,936	RSMeans Heavy Constr., 05 05 05.10 0260
Coal Hopper/Feeder Breaker (Disposal)	yd^3	570	$10.57	$6,025	RSMeans Heavy Constr., 02 41 19.18 0200
Crusher (structure)	ft^3	9,200	$0.28	$2,576	RSMeans Heavy Constr., 02 41 16.13 0020
Crusher (equipment demolition)	Ton	60	$186.50	$11,190	RSMeans Heavy Constr., 05 05 05.10 0260
Crusher (equipment disposal)	yd^3	150	$10.57	$1,586	RSMeans Heavy Constr., 02 41 19.18 0200
Coal Reclaim System (demolition)	Ton	50	$186.50	$9,325	RSMeans Heavy Constr., 05 05 05.10 0260
Coal Reclaim System (disposal)	yd^3	233	$10.57	$2,463	RSMeans Heavy Constr., 02 41 19.18 0200
Loadout (structure)	ft^3	19,000	$0.28	$5,320	RSMeans Heavy Constr., 02 41 16.13 0020
Loadout (equipment demolition)	Ton	68	$186.50	$12,682	RSMeans Heavy Constr., 05 05 05.10 0260
Loadout (equipment disposal)	yd^3	185	$10.57	$1,955	RSMeans Heavy Constr., 02 41 19.18 0200
100 lb/cu. Ft material - 48" Conveyors (demolition)	ft	545	$147.71	$80,502	CostMine - Mine and Mill Equipment Costs 2014 (Estimated as 25% of Construction Cost)
12" Drainage Culvert (demolition)	ft	50	$2.25	$113	RSMeans Heavy Constr., 02 41 13.40 0150
18" Drainage Culvert (demolition)	ft	413	$3.37	$1,392	RSMeans Heavy Constr., 02 41 13.40 0160
24" Drainage Culvert (demolition)	ft	455	$10.10	$4,596	RSMeans Heavy Constr., 02 41 13.40 0170
36" Drainage Culvert (demolition)	ft	184	$12.15	$2,236	RSMeans Heavy Constr., 02 41 13.40 0180
96" Drainage Culvert (demolition)	ft	184	$34.30	$6,311	RSMeans Heavy Constr., 02 41 13.40 0200
Culvert Excavation 6' - 10' Deep	yd^3	1,485	$3.82	$5,673	RSMeans Heavy Constr., 31 23 16.13 0510
Culvert Excavation 14' - 20' Deep	yd^3	2,208	$4.77	$10,532	RSMeans Heavy Constr., 31 23 16.13 1300
Perimeter Fencing (demolition)	ft	22,000	$2.15	$47,300	RSMeans Heavy Constr., 02 41 13.60 1650
Water Monitoring Wells - PVC (demolition)	VLF	1,919	$7.27	$13,947	RSMeans Heavy Constr., 02 41 13.76 0900
Water Monitoring Wells - Steel (demolition)	VLF	201	$14.55	$2,925	RSMeans Heavy Constr., 02 41 13.76 1000
Water System (tanks)	Ea.	2	$1,050.00	$2,100	RSMeans Heavy Constr., 02 65 10.30 1029
Subtotal Structure Demolition & Disposal				**$620,248**	

Exact makes and models of equipment are not currently known, therefore estimates are included for weights and yardages of equipment
** RS Means does not have direct cost data references for some specific items. Where needed, reasonable substitutues are utilized.
All cost data is from the 2009 additions of either the RS Means Heavy Construction or Building Construction Cost Data Manuals except where specifically noted

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Facilities Reclamation Cost Estimate

Facilities Earthwork

Item	*Unit	Quantity	Unit Cost ($)	Cost	**Cost Data Reference
Pond 1 backfill from embankment	yd^3	1,156	$1.95	$2,254	RSMeans Heavy Constr., 31 23 23.17 0020
Pond 1 backfill from subsoil pile	yd^3	3,200	$5.88	$18,816	RSMeans Heavy Constr., 31 23 23.20 3014 & 31 23 16.42 1300 & 31 23 23.17 0020
Pond 1B backfill from embankment	yd^3	146	$1.95	$285	RSMeans Heavy Constr., 31 23 23.17 0020
Pond 1B backfill from subsoil pile	yd^3	794	$5.88	$4,669	RSMeans Heavy Constr., 31 23 23.20 3014 & 31 23 16.42 1300 & 31 23 23.17 0020
Pond 2 backfill from embankment	yd^3	160	$1.95	$312	RSMeans Heavy Constr., 31 23 23.17 0020
Pond 2 backfill from subsoil pile	yd^3	7,122	$5.88	$41,877	RSMeans Heavy Constr., 31 23 23.20 3014 & 31 23 16.42 1300 & 31 23 23.17 0020
Pond 3 backfill from embankment	yd^3	4,767	$1.95	$9,296	RSMeans Heavy Constr., 31 23 23.17 0020
Pond 3 backfill from subsoil pile	yd^3	6,107	$5.88	$35,909	RSMeans Heavy Constr., 31 23 23.20 3014 & 31 23 16.42 1300 & 31 23 23.17 0020
Pond 4 backfill from embankment	yd^3	1,410	$1.95	$2,750	RSMeans Heavy Constr., 31 23 23.17 0020
Pond 4 backfill from subsoil pile	yd^3	13,282	$5.88	$78,098	RSMeans Heavy Constr., 31 23 23.20 3014 & 31 23 16.42 1300 & 31 23 23.17 0020
Robinson Creek Rip-Rap	yd^3	562	$52.90	$33,709	RS Means Heavy Constr., 31 37 13.10 0100
Robinson Creek Grass Matting	yd^2	2,189	$5.08	$17,402	RS Means Heavy Constr., 31 25 14.16 0120
Ditch 1 recontouring	yd^3	3,096	$1.95	$6,037	RSMeans Heavy Constr., 31 23 23.17 0020
Ditch 2 recontouring	yd^3	2,014	$1.95	$3,927	RSMeans Heavy Constr., 31 23 23.17 0020
Ditch 3 recontouring	yd^3	11,556	$1.95	$22,534	RSMeans Heavy Constr., 31 23 23.17 0020
Ditch 4 recontouring	yd^3	2,333	$1.95	$4,550	RSMeans Heavy Constr., 31 23 23.17 0020

Ripping of haul roads and compacted surfaces	yd^3	9,600	$2.06	$19,776	RSMeans Heavy Constr., 31 23 16.32 2310
Subtotal Facilities Earthwork				**$302,201**	

Total Facilities Reclamation Cost Estimate	**$1,078,792**

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Office

	Material	Length	Width	Total Linear Feet
Footing	Concrete	146	104	500

		Length (ft)	Area (ft)	yd^3
Footing	Concrete	500	6	111

	Material	Length	Width	Height	Volume (ft^3)
Structure	Mixture	150	100	10	150000

Shop

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	Material	Length (ft)	Width (ft)	Total Linear Feet
Footing	Concrete	204	104	616

	Material	Length (ft)	Area (ft)	yd^3
Footing	Concrete	616	6	137

		Height (ft)	Length (ft)	Area (ft^2)
Foundation	Concrete	5	616	3,080

	Material	Area (ft^2)	Thick (ft)	yd^3
Foundation	Concrete	3080	1	114

		Length (ft)	Width (ft)	Area (ft^2)
Floor	Concrete	200	100	20,000

		Area (ft^2)	Thick (ft)	yd^3
Floor	Concrete	20000	0.5	370

	Material	Length	Width	Height	Volume (ft^3)
Structure	Steel	200	100	50	1000000

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Wash Bay

	Material	Length (ft)	Width (ft)	Total Linear Feet
Footing	Concrete	66	56	244

	Material	Length (ft)	Area (ft)	yd^3
Footing	Concrete	244	6	54

		Height (ft)	Length (ft)	Area (ft^2)
Foundation	Concrete	3	220	660

	Material	Area (ft^2)	Thick (ft)	yd^3
Foundation	Concrete	660	1	24

		Length (ft)	Width (ft)	Area (ft^2)
Floor	Concrete	60	50	3,000
Sump	Concrete	100	1	100

		Area (ft^2)	Thick (ft)	yd^3
Floor	Concrete	3,100	0.5	57

	Material	Length	Width	Height	Volume (ft^3)
Structure	Steel	60	50	50	150000

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Fuel Storage

	Material	Length (ft)	Width (ft)	Thickness	cubic feet
Floor	Concrete	50	30	2	3,000
	Material	Length (ft)	height (ft)	Thickness	cubic feet
Wall	Concrete	160	3	0.5	240

Tanks 2 - 12,000 gallon 1- 4,000 gallon

cubic yard

111

cubic yard

9

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Oil Storage

	Material	Length (ft)	Width (ft)	Thickness	cubic feet	cubic yard
Floor	Concrete	80	30	1	2,400	89
	Material	Length (ft)	height (ft)	Thickness	cubic feet	cubic yard
Wall	Concrete	220	3	0.5	330	12

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Coal Hopper/ Feeder Breaker

Tunnel Access

	Material	Length (ft)	Height(ft)	Thickness	cubic feet	cubic yard
Wall	Concrete	60	36	1	2,160	80
	Material	Length (ft)	Width (ft)	Thickness	cubic feet	cubic yard
Floor	Concrete	20	20	1	400	15
Total Tunnel Access						95

Hopper Supports

	Material	Cross Section Area	Length	cubic feet	cubic yard
East, West, South Support	Concrete	50	60	3,000	111
North Support	Concrete	57	20	1,140	42
Floor	Concrete	49	20	980	36
Total Hopper Supports					190

Belt Tunnel	Material	Cross Section Area	Length	cubic feet	cubic yard
Bottom	Concrete	121	8	968	36
Top	Concrete	77	8	616	23
			Thickness		
Sides	Concrete	1000	1	2,000	74
Total Belt Tunnel					133

Structure Estimate

		cubic yard	Weight (ton)
Hopper	Steel	340	14
Feeder Breaker	Steel	230	50
Total		570	64

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Crusher Building

	Material	Length (ft)	Width (ft)	Thickness	cubic feet	cubic yard
Footers	Concrete	80	3	2	480	18
				Height	cubic feet	cubic yard
Structure	Steel	20	20	23	9,200	341
	Weight (ton)					
Crusher	100					

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Feed Conveyor

	Material	Length (ft)	Width (ft)	Thickness	Quantity	cubic feet	cubic yard
Support Footers	Concrete	5	3	2	6	90	3

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Stacker Supports	Material	Cross Section Area	Length	cubic feet	cubic yard

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Reclaim Feeder Conveyor

	Material	Length (ft)	Width (ft)	Thickness	Quantity	cubic feet	cubic yard
Support Footers	Concrete	5	3	2	5	75	3
Structure	Steel						

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Loadout

	Material	Length (ft)	Width (ft)	Total Linear Feet
Footing	Concrete	18	18	72

	Material	Length (ft)	Area (ft)	yd^3
Footing	Concrete	72	6	16

	Material	Length (ft)	Width (ft)	Height	ft^3	yd^3
Scale Foundation	Concrete	15	3	0.6	108	4

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Culvert #	Diameter (inches)	Length (ft)
1	12	50
2	18	45
3	18	50
4	18	50
5	18	25
6	18	45
7	18	65
8	18	88
9	18	45
10	24	186
11	24	239
12	24	10
13	24	10
14	24	10
15	36	184
16	96	184

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	Location	Total well depth (feet below ground surface)	Well casing	Constructed by
Wells used for monitoring that are on the mine permit area				
C1-24	In permit area	26.5	1.5-inch PVC	ACD
C2-15	In permit area	15	1.5-inch PVC	ACD
C2-28	In permit area	28	1.5-inch PVC	ACD
C2-40	In permit area	40	1.5-inch PVC	ACD
C3-15	In permit area	15	1.5-inch PVC	ACD
C3-30	In permit area	30	1.5-inch PVC	ACD
C3-40	In permit area	40	1.5-inch PVC	ACD
SS-15	In permit area	15	1.5-inch PVC	ACD
SS-30	In permit area	29	1.5-inch PVC	ACD
SS-75	In permit area	75	1.5-inch PVC	ACD
UR-29	In permit area	29	1.5-inch PVC	ACD
UR-70	In permit area	70	1.5-inch PVC	ACD
LR-45	In permit area	42	1.5-inch PVC	UII
Y-99 (A2)	In permit area	22	1.5-inch PVC	UII
Y-101	In permit area	77	1.5-inch PVC	UII
Y-102 (A4)	In permit area	86	1.5-inch PVC	UII
Wells used for monitoring that are not on the mine permit area				
C4-15	Richard Dame property	15	1.5-inch PVC	ACD
C4-30	Richard Dame property	30	1.5-inch PVC	ACD
C4-50	Richard Dame property	50	1.5-inch PVC	ACD
C5-130	Darlynn Sorensen property	130	1.5-inch PVC	ACD
LS-15	Darlynn Sorensen property	15	1.5-inch PVC	ACD
LS-28	Darlynn Sorensen property	28	1.5-inch PVC	ACD
LS-60	Darlynn Sorensen property	60	1.5-inch PVC	ACD
LS-85	Darlynn Sorensen property	87	1.5-inch PVC	ACD
Y-36	Darlynn Sorensen property	230	2-inch PVC	UII
Y-45	Darlynn Sorensen property	352	2-inch PVC	UII

Y-59	Darlynn Sorensen property	110	2-inch PVC	UII
Y-61	Darlynn Sorensen property	150	6 5/8 steel	UII
Y-63	Darlynn Sorensen property	51	6-inch steel	UII
Y-98 (A1)	Burton Pugh property	86	2-inch PVC	UII
Y-100	Burton Pugh property	86	2-inch PVC	UII
Wells that have been destroyed that are on the mine permit area				
C0-18	Destroyed	22	1.5-inc PVC	ACD
C0-54	Destroyed	54	1.5-inc PVC	ACD
C6-15	Destroyed	15	1.5-inc PVC	ACD
C7-20	Destroyed	20	1.5-inc PVC	ACD
C8-25	Destroyed	27	1.5-inc PVC	ACD
C9-15	Destroyed	15	1.5-inc PVC	ACD
C9-25	Destroyed	26	1.5-inc PVC	ACD
C9-40	Destroyed	42	1.5-inc PVC	ACD
LR-29	Destroyed	29	1.5-inc PVC	ACD
Y-38	Destroyed	105	2-inch PVC	UII

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Pond 1

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Total Fill	4356 yd^3
Fill in Embankment	1156 yd^3
Fill needed from subsoil pile	3200 yd^3

Pond 1B

DRAFT

Total Fill	940 yd^3
Fill in Embankment	146 yd^3
Fill needed from subsoil pile	794 yd^3

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Pond 2

Total Fill	7122	yd3
Fill in Embankment	160	yd3
Fill needed from subsoil pile	6962	yd3

Surface Area	0.8 acres
Topsoil 8" thick	
Topsoil	860 yards

Pond 3

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Total Fill	10874 yd3	
Fill in Embankment	4767 yd3	
Fill needed from subsoil pile	6107 yd3	
Surface Area		2.8 acres
Topsoil 8" thick		
Topsoil		3011 yd3

Pond 4

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Total Fill	14,692	yd3
Fill in Embankment	1,410	yd3
Fill needed from subsoil pile	13,282	yd3
Acres	1.91	acres
Topsoil	2055	yd3

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Robinson Creek Reconstruction

	Area (ft^2)	Length (ft)	Volume (yd3)	
Rip-Rap	7.7	1970	562	
	Length	Width	Area (yd2)	
Grass Matting	1970	10	2189	
	Length	Width	Height	Volume (yd3)
Topsoil Slopes	1970	72	0.67	3520

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Ditch 1

	yd3	
Fill Needed	3,096	
Length	5971	ft
Typical section	14	sq ft

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Ditch 2

	yd3
Fill Needed	2,014

Length	4183	ft
Typical section	13	sq ft

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Ditch 3

	yd3
Fill Needed	11,556

Ditch 4

	yd3
Fill Needed	2,333

Length	3500 ft
Typical section	18 sq ft

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Cycle Times

Hauler Cycle Time

	5 769C	
Load with Exchange (min)		1.25
Haul (min)		1.11
Dump and Maneuver (min)		1.2
Return (min)		1.33
Potential Cycle Time (min)		4.9
Wait on Slow Hauler (min)		0
Wait to Load (min)		1.35
Additional Bunching (min)		0.36
Wait to Dump (min)		0
TMPH Wait (min)		
Total Cycle Time (min)		6.61
Bunching	Avg	
Haul Start mph		0
Haul End mph		0
Return Start mph		0
Return End mph		0

Loader Cycle Time

	5 769C	
Loader Model	385C LME	
Loader Quantity		1
Bucket Capacity (CY)		7.25
Loader Fill Factor (%)		100
Loose Density (Lbs/LCY)		2,143
Tons per Pass		7.77
System Passes per Hauler		3
Hauler Payload (Tons)		23.31
% of Max GVW		97.21
Hauler Volume (LCY)		21.75
% of Body Fill		70
Loader Cycle Time (min)		0.25

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First Bucket Dump (min)	0.05	
Hauler Exchange Time (min)	0.7	

Fleet Production

Fleet Estimates

Operating Schedule		
Operator Efficiency	90	%
Schedule Period	Shift	
Scheduled Hours	2,000.00	
Fleet Estimates		
Fleet Availability	87.87	%
Production per Sched Hr	724.11	BCY
Total Production	1,190,524	BCY
Sched Hrs Required	1,644.12	
Total Cost ($)	1,274,461	
Cost per BCY ($)	1.071	
Production per Shift	1,448,220	BCY
Shifts Required	0.82	

Theoretical Production

	Quantity	Model	BCY per Hour	Cycles per Hour
1	1	385C LME	969	
2	5	769C	1,237	12.3

Actual Production

	Quantity	Model	Cycles per Hour	Payload in Tons	Tons per Hour
1	5	769C	9.07	23.31	1,057.12
Fleet Tons per Operating Hour					1,057.12
x 90.00% Operator Efficiency =					951.41

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x 87.87% Fleet Availability = 835.99

Cost

	Qty	Model	Machine Code	Hourly Cost Each Unit	Operating Hours	Total $	$ per BCY
Loaders	1	385C LME		134.32	1,480	198,754	0.167
Haulers:	5	769C	C202	107.26	7,223	0	0.651
Totals	5				7,223	0	0.651
Support	1	5,000 Gal. Water Truck		74.27	1,083	80,471	0.068
	1	14 Grader		89.83	722	64,887	0.055
	1	D7 Dozer		96.95	1,228	119,051	0.1
Totals	3				3,034	264,409	0.222
Fleet Totals	9				11,737	463,163	1.04

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Cycle Times

Hauler Cycle Time

	5 769C	
Load with Exchange (min)		1.25
Haul (min)		1.11
Dump and Maneuver (min)		1.2
Return (min)		1.33
Potential Cycle Time (min)		4.9
Wait on Slow Hauler (min)		0
Wait to Load (min)		1.35
Additional Bunching (min)		0.36
Wait to Dump (min)		0
TMPH Wait (min)		
Total Cycle Time (min)		6.61
Bunching	Avg	
Haul Start mph		0
Haul End mph		0
Return Start mph		0
Return End mph		0

Loader Cycle Time

	5 769C	
Loader Model	385C LME	
Loader Quantity		1
Bucket Capacity (CY)		7.25
Loader Fill Factor (%)		100
Loose Density (Lbs/LCY)		2,143
Tons per Pass		7.77
System Passes per Hauler		3
Hauler Payload (Tons)		23.31
% of Max GVW		97.21
Hauler Volume (LCY)		21.75
% of Body Fill		70
Loader Cycle Time (min)		0.25

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First Bucket Dump (min)	0.05	
Hauler Exchange Time (min)	0.7	

Fleet Production

Fleet Estimates

Operating Schedule		
Operator Efficiency	90	%
Schedule Period	Shift	
Scheduled Hours	2,000.00	
Fleet Estimates		
Fleet Availability	87.87	%
Production per Sched Hr	724.11	BCY
Total Production	336,238	BCY
Sched Hrs Required	464.35	
Total Cost ($)	359,944	
Cost per BCY ($)	1.071	
Production per Shift	1,448,220	BCY
Shifts Required	0.23	

Theoretical Production

	Quantity	Model	BCY per Hour	Cycles per Hour
1	1	385C LME	969	
2	5	769C	1,237	12.3

Actual Production

	Quantity	Model	Cycles per Hour	Payload in Tons	Tons per Hour
1	5	769C	9.07	23.31	1,057.12
Fleet Tons per Operating Hour					1,057.12
x 90.00% Operator Efficiency =					951.41

x 87.87% Fleet Availability = 835.99

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Cost

	Qty	Model	Machine Code	Hourly Cost Each Unit	Operating Hours	Total $	$ per BCY
Loaders	1	385C LME		134.32	418	56,134	0.167
Haulers:	5	769C	C202	107.26	2,040	0	0.651
Totals	5				2,040	0	0.651
Support	1	5,000 Gal. Water Truck		74.27	306	22,727	0.068
	1	14 Grader		89.83	204	18,326	0.055
	1	D7 Dozer		96.95	347	33,623	0.1
Totals	3				857	74,677	0.222
Fleet Totals	9				3,315	130,810	1.04

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Cycle Times

Hauler Cycle Time

	5 769C
Load with Exchange (min)	1.25
Haul (min)	1.12
Dump and Maneuver (min)	1.2
Return (min)	1.33
Potential Cycle Time (min)	4.9
Wait on Slow Hauler (min)	0
Wait to Load (min)	1.35
Additional Bunching (min)	0.36
Wait to Dump (min)	0
TMPH Wait (min)	
Total Cycle Time (min)	6.61
Bunching	Avg
Haul Start mph	0
Haul End mph	0
Return Start mph	0
Return End mph	0

Loader Cycle Time

	5 769C
Loader Model	385C LME
Loader Quantity	1
Bucket Capacity (CY)	7.25
Loader Fill Factor (%)	100
Loose Density (Lbs/LCY)	2,498
Tons per Pass	9.06
System Passes per Hauler	3
Hauler Payload (Tons)	27.17
% of Max GVW	103.52
Hauler Volume (LCY)	21.75
% of Body Fill	70
Loader Cycle Time (min)	0.25

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First Bucket Dump (min)	0.05
Hauler Exchange Time (min)	0.7

Fleet Production

Fleet Estimates

Operating Schedule		
Operator Efficiency	90	%
Schedule Period	Shift	
Scheduled Hours	2,000.00	
Fleet Estimates		
Fleet Availability	87.87	%
Production per Sched Hr	696.55	BCY
Total Production	20,651,261	BCY
Sched Hrs Required	29,648.01	
Total Cost ($)	22,982,038	
Cost per BCY ($)	1.113	
Production per Shift	1,393,096	BCY
Shifts Required	14.82	

Theoretical Production

	Quantity	Model	BCY per Hour	Cycles per Hour
1	1	385C LME	932	
2	5	769C	1,188	12.2

Actual Production

	Quantity	Model	Cycles per Hour	Payload in Tons	Tons per Hour
1	5	769C	9.07	27.17	1,232.24
Fleet Tons per Operating Hour					1,232.24
x 90.00% Operator Efficiency =					1,109.01

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x 87.87% Fleet Availability = 974.47

Cost

	Qty	Model	Machine Code	Hourly Cost Each Unit	Operating Hours
Loaders	1	385C LME		134.32	26,683
Haulers:	5	769C	C202	107.26	130,256
Totals	5				130,256
Support	1	5,000 Gal. Water Truck		74.27	19,538
	1	14 Grader		89.83	13,026
	1	D7 Dozer		96.95	22,143
Totals	3				54,707
Fleet Totals	9				211,646

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Total $	$ per BCY
3,584,088	0.174
0	0.677
0	0.677
1,451,115	0.07
1,170,088	0.057
2,146,811	0.104
4,768,013	0.231
8,352,101	1.081

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Bond Cost Estimate

	Pit	BCF	BCY	LCY	Area (sf)	Area (acres)	Backfill Cost	Subsoil Quantity (LCY)	Subsoil Cost	Phase 1 Cost Total Direct Cost
Excavated Areas	HWT 1	36,433,320	1,349,382	1,494,103	521,023	12.0	$ 1,458,682	68,955	$ 66,897	$ 1,525,579
	HWT 2	25,456,746	942,842	1,043,962	376,005	8.6	$ 1,019,213	49,763	$ 48,277	$ 1,067,490
	HWT 3	21,047,412	779,534	863,139	401,873	9.2	$ 842,676	53,186	$ 51,599	$ 894,275
	Pit 1	18,338,977	679,221	752,068	280,957	6.4	$ 734,238	37,183	$ 36,074	$ 770,312
	Pit 2	17,642,275	653,418	723,497	360,952	8.3	$ 706,344	47,770	$ 46,344	$ 752,689
	Pit 3	43,911,691	1,626,359	1,800,786	305,947	7.0	$ 1,758,094	40,491	$ 39,282	$ 1,797,376
	Pit 4	11,763,124	435,671	482,397	273,917	6.3	$ 470,961	36,252	$ 35,170	$ 506,130
	Pit 5	25,251,319	935,234	1,035,538	292,103	6.7	$ 1,010,988	38,659	$ 37,505	$ 1,048,493
	Pit 6	49,464,773	1,832,029	2,028,514	589,411	13.5	$ 1,980,423	78,006	$ 75,677	$ 2,056,100
	Pit 7	65,357,401	2,420,644	2,680,259	274,027	6.3	$ 2,616,717	36,266	$ 35,184	$ 2,651,900
	Pit 8	26,865,130	995,005	1,101,719	274,025	6.3	$ 1,075,600	36,266	$ 35,184	$ 1,110,784
	Pit 9	21,703,328	803,827	890,037	676,007	15.5	$ 868,937	89,467	$ 86,796	$ 955,733
	Pit 10	31,855,374	1,179,829	1,306,365	863,371	19.8	$ 1,275,395	114,263	$ 110,853	$ 1,386,247
	Pit 20	15,818,165	585,858	648,691	281,588	6.5	$ 633,312	37,267	$ 36,155	$ 669,467
	Pit 21	15,016,204	556,156	615,803	195,875	4.5	$ 601,204	25,923	$ 25,149	$ 626,354
	Pit 22	20,002,682	740,840	820,295	231,787	5.3	$ 800,848	30,676	$ 29,760	$ 830,608
	Pit 23	15,887,560	588,428	651,537	197,937	4.5	$ 636,091	26,196	$ 25,414	$ 661,505
	Pit 24	13,738,342	508,827	563,399	199,413	4.6	$ 550,043	26,391	$ 25,604	$ 575,646
	Pit 25	24,579,611	910,356	1,007,992	294,885	6.8	$ 984,095	39,027	$ 37,862	$ 1,021,957
	Pit 26	17,214,403	637,570	705,950	227,894	5.2	$ 689,214	30,161	$ 29,260	$ 718,474
	Pit 27	18,049,211	668,489	740,185	239,102	5.5	$ 722,637	31,644	$ 30,700	$ 753,336
	Pit 28	22,187,018	821,741	909,873	284,384	6.5	$ 888,302	37,637	$ 36,513	$ 924,816
	Excavated Areas Totals	**557,584,064**	**20,651,261**	**22,866,109**	**7,642,484**	**175.4**	**$ 22,324,014**	**1,011,450**	**$ 981,257**	**$ 23,305,271**
Spoil Pile Areas	SPOIL1				247,108	5.7	$ -	32,704	$ 31,727	$ 31,727
	SPOIL2				335,554	7.7	$ -	44,409	$ 43,083	$ 43,083
	SPOIL3				100,047	2.3	$ -	13,241	$ 12,846	$ 12,846
	SPOIL4				135,878	3.1	$ -	17,983	$ 17,446	$ 17,446
	SPOIL5				325,093	7.5	$ -	43,025	$ 41,740	$ 41,740
	SPOIL6				32,046	0.7	$ -	4,241	$ 4,115	$ 4,115

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	SPOIL7				86,019	2.0	$	-	11,384	$	11,044	$	11,044
	SPOIL8				91,334	2.1	$	-	12,088	$	11,727	$	11,727
	Spoil Pile Areas Totals				**1,353,079**	**31**	**$**	**-**	**179,074**	**$**	**173,729**	**$**	**173,729**
Surface Disturbance Only Areas	SURF1				426,607	9.8							
	SURF4				112,760	2.6							
	SURF5				381,589	8.8							
	SURF6				324,443	7.4							
	SURF7				52,309	1.2							
	SURF8 HAUL & MAINT				2,409,732	55.3							
	Surface Disturbance Only Areas Totals				**3,707,440**	**85.1**							
Facilities & Special Areas	DITCH 3				22,976	0.5							
	DITCH 2				84,063	1.9							
	DITCH 4				16,265	0.4							
	POND 3				180,228	4.1							
	POND 4 (includes ditch 1)				316,647	7.3							
	ROBINSON				234,731	5.4							
	LOADOUT				1,336,537	30.7							
	Facilities Concrete Demolition												
	Facilities Structure Demolition												
	Facilities Earthwork												
	Facilities & Special Areas Totals				**2,191,447**	**50.3**							
	Grand Totals	**557,584,064**	**20,651,261**	**22,866,109**	**14,894,450**	**342**	**$**	**22,324,014**	**1,190,524**	**$**	**1,154,986**	**$**	**23,478,999**

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Indirect Cost	Total Phase 1 Cost	**Total Phase 1 Cost - Escalated**	Topsoil Quantity (LCY)	Topsoil Cost	Mulching Quantity (M.S.F)	Mulching Cost	Seeding Quantity (M.S.F)	Seeding Cost	Total Direct Cost	Indirect Cost	Total Phase 2 Cost
								Phase 2 Cost			
$ 408,855	$ 1,934,434	**$ 2,046,805**	13,791	$ 13,379	521	$ 31,381	521	$ 13,416	$ 58,177	$ 15,591	$ 73,768
$ 286,087	$ 1,353,577	**$ 1,432,206**	9,953	$ 9,655	376	$ 22,647	376	$ 9,682	$ 41,984	$ 11,252	$ 53,236
$ 239,666	$ 1,133,940	**$ 1,199,811**	10,637	$ 10,320	402	$ 24,205	402	$ 10,348	$ 44,873	$ 12,026	$ 56,899
$ 206,444	$ 976,755	**$ 1,033,495**	7,437	$ 7,215	281	$ 16,922	281	$ 7,235	$ 31,371	$ 8,408	$ 39,779
$ 201,721	$ 954,409	**$ 1,009,851**	9,554	$ 9,269	361	$ 21,740	361	$ 9,295	$ 40,304	$ 10,801	$ 51,105
$ 481,697	$ 2,279,073	**$ 2,411,464**	8,098	$ 7,856	306	$ 18,427	306	$ 7,878	$ 34,162	$ 9,155	$ 43,317
$ 135,643	$ 641,773	**$ 679,054**	7,250	$ 7,034	274	$ 16,498	274	$ 7,053	$ 30,585	$ 8,197	$ 38,782
$ 280,996	$ 1,329,489	**$ 1,406,718**	7,732	$ 7,501	292	$ 17,593	292	$ 7,522	$ 32,616	$ 8,741	$ 41,357
$ 551,035	$ 2,607,135	**$ 2,758,583**	15,601	$ 15,135	589	$ 35,500	589	$ 15,177	$ 65,813	$ 17,638	$ 83,451
$ 710,709	$ 3,362,610	**$ 3,557,943**	7,253	$ 7,037	274	$ 16,505	274	$ 7,056	$ 30,598	$ 8,200	$ 38,798
$ 297,690	$ 1,408,474	**$ 1,490,292**	7,253	$ 7,037	274	$ 16,505	274	$ 7,056	$ 30,597	$ 8,200	$ 38,798
$ 256,136	$ 1,211,869	**$ 1,282,267**	17,893	$ 17,359	676	$ 40,716	676	$ 17,407	$ 75,482	$ 20,229	$ 95,712
$ 371,514	$ 1,757,762	**$ 1,859,870**	22,853	$ 22,171	863	$ 52,001	863	$ 22,232	$ 96,403	$ 25,836	$ 122,239
$ 179,417	$ 848,884	**$ 898,196**	7,453	$ 7,231	282	$ 16,960	282	$ 7,251	$ 31,442	$ 8,426	$ 39,868
$ 167,863	$ 794,217	**$ 840,352**	5,185	$ 5,030	196	$ 11,798	196	$ 5,044	$ 21,871	$ 5,861	$ 27,733
$ 222,603	$ 1,053,211	**$ 1,114,392**	6,135	$ 5,952	232	$ 13,961	232	$ 5,969	$ 25,881	$ 6,936	$ 32,817
$ 177,283	$ 838,788	**$ 887,513**	5,239	$ 5,083	198	$ 11,922	198	$ 5,097	$ 22,101	$ 5,923	$ 28,025
$ 154,273	$ 729,919	**$ 772,320**	5,278	$ 5,121	199	$ 12,011	199	$ 5,135	$ 22,266	$ 5,967	$ 28,234
$ 273,884	$ 1,295,841	**$ 1,371,116**	7,805	$ 7,572	295	$ 17,761	295	$ 7,593	$ 32,927	$ 8,824	$ 41,751
$ 192,551	$ 911,025	**$ 963,947**	6,032	$ 5,852	228	$ 13,726	228	$ 5,868	$ 25,446	$ 6,820	$ 32,266
$ 201,894	$ 955,231	**$ 1,010,720**	6,329	$ 6,140	239	$ 14,401	239	$ 6,157	$ 26,698	$ 7,155	$ 33,853
$ 247,851	$ 1,172,667	**$ 1,240,787**	7,527	$ 7,303	284	$ 17,128	284	$ 7,323	$ 31,754	$ 8,510	$ 40,264
$ 6,245,813	**$ 29,551,083**	**$ 31,267,702**	**202,290**	**$ 196,251**	**7,642**	**$ 460,307**	**7,642**	**$ 196,794**	**$ 5,067,444**	**$ 228,698**	**$ 1,082,051**
$ 8,503	$ 40,230	**$ 42,567**	6,541	$ 6,345	247	$ 14,883	247	$ 6,363	$ 27,592	$ 7,395	$ 34,986
$ 11,546	$ 54,630	**$ 57,803**	8,882	$ 8,617	336	$ 20,210	336	$ 8,641	$ 37,468	$ 10,041	$ 47,509
$ 3,443	$ 16,288	**$ 17,234**	2,648	$ 2,569	100	$ 6,026	100	$ 2,576	$ 11,171	$ 2,994	$ 14,165
$ 4,676	$ 22,122	**$ 23,407**	3,597	$ 3,489	136	$ 8,184	136	$ 3,499	$ 15,172	$ 4,066	$ 19,238
$ 11,186	$ 52,927	**$ 56,001**	8,605	$ 8,348	325	$ 19,580	325	$ 8,371	$ 36,300	$ 9,728	$ 46,028
$ 1,103	$ 5,217	**$ 5,520**	848	$ 823	32	$ 1,930	32	$ 825	$ 3,578	$ 959	$ 4,537

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$ 2,960	$ 14,004	$ 14,818	2,277	$ 2,209	86	$ 5,181	86	$ 2,215	$ 9,605	$ 2,574	$ 12,179
$ 3,143	$ 14,870	$ 15,733	2,418	$ 2,345	91	$ 5,501	91	$ 2,352	$ 10,198	$ 2,733	$ 12,931
$ 46,559	**$ 220,288**	**$ 233,085**	**35,815**	**$ 34,746**	**1,353**	**$ 81,496**	**1,353**	**$ 34,842**	**$ 151,084**	**$ 40,490**	**$ 191,574**
			11,292	$ 10,955	427	$ 25,695	427	$ 10,985	$ 47,635	$ 12,766	$ 60,401
			2,985	$ 2,896	113	$ 6,792	113	$ 2,904	$ 12,591	$ 3,374	$ 15,965
			10,100	$ 9,799	382	$ 22,983	382	$ 9,826	$ 42,608	$ 11,419	$ 54,027
			8,588	$ 8,331	324	$ 19,541	324	$ 8,354	$ 36,227	$ 9,709	$ 45,936
			1,385	$ 1,343	52	$ 3,151	52	$ 1,347	$ 5,841	$ 1,565	$ 7,406
			63,784	$ 61,880	2,410	$ 145,138	2,410	$ 62,051	$ 269,068	$ 72,110	$ 341,179
			98,133	**$ 95,203**	**3,707**	**$ 223,299**	**3,707**	**$ 95,467**	**$ 413,969**	**$ 110,944**	**$ 524,913**
			608	$ 590	23	$ 1,384	23	$ 592	$ 2,565	$ 688	$ 3,253
			2,225	$ 2,159	84	$ 5,063	84	$ 2,165	$ 9,386	$ 2,516	$ 11,902
			431	$ 418	16	$ 980	16	$ 419	$ 1,816	$ 487	$ 2,303
			4,770	$ 4,628	180	$ 10,855	180	$ 4,641	$ 20,124	$ 5,393	$ 25,517
			8,381	$ 8,131	317	$ 19,072	317	$ 8,154	$ 35,357	$ 9,476	$ 44,832
			6,213	$ 6,028	235	$ 14,138	235	$ 6,044	$ 26,210	$ 7,024	$ 33,234
			35,377	$ 34,321	1,337	$ 80,500	1,337	$ 34,416	$ 149,236	$ 39,995	$ 189,232
			$ 58,006	**$ 56,274**	**$ 2,191**	**$ 131,991**	**$ 2,191**	**$ 56,430**	**$ 244,695**	**$ 65,578**	**$ 310,273**
$ 6,292,372	**$ 29,771,371**	**$ 31,500,786**	**394,243**	**$ 382,475**	**14,894**	**$ 897,093**	**14,894**	**$ 383,532**	**$ 5,877,192**	**$ 445,711**	**$ 2,108,810**

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		Phase 3 Cost					Facilities Cost	Total
Total Phase 2 Cost - Escalated	Re-Seed Quantity	Re-Seed Cost	Total Direct Cost	Indirect Cost	Total Phase 3 Cost	**Total Phase 3 Cost - Escalated**	Total Facilities Cost	**Total Bonded Amount - Escalated**
$ 78,054	521	$ 13,416	$ 13,416	$ 3,596	$ 17,012	**$ 18,000**		**$ 2,142,859**
$ 56,329	376	$ 9,682	$ 9,682	$ 2,595	$ 12,277	**$ 12,990**		**$ 1,501,525**
$ 60,204	402	$ 10,348	$ 10,348	$ 2,773	$ 13,122	**$ 13,884**		**$ 1,273,898**
$ 42,090	281	$ 7,235	$ 7,235	$ 1,939	$ 9,174	**$ 9,706**		**$ 1,085,291**
$ 54,074	361	$ 9,295	$ 9,295	$ 2,491	$ 11,785	**$ 12,470**		**$ 1,076,395**
$ 45,833	306	$ 7,878	$ 7,878	$ 2,111	$ 9,989	**$ 10,570**		**$ 2,467,867**
$ 41,035	274	$ 7,053	$ 7,053	$ 1,890	$ 8,944	**$ 9,463**		**$ 729,552**
$ 43,759	292	$ 7,522	$ 7,522	$ 2,016	$ 9,537	**$ 10,091**		**$ 1,460,569**
$ 88,299	589	$ 15,177	$ 15,177	$ 4,068	$ 19,245	**$ 20,363**		**$ 2,867,245**
$ 41,051	274	$ 7,056	$ 7,056	$ 1,891	$ 8,947	**$ 9,467**		**$ 3,608,461**
$ 41,051	274	$ 7,056	$ 7,056	$ 1,891	$ 8,947	**$ 9,467**		**$ 1,540,810**
$ 101,271	676	$ 17,407	$ 17,407	$ 4,665	$ 22,072	**$ 23,354**		**$ 1,406,893**
$ 129,340	863	$ 22,232	$ 22,232	$ 5,958	$ 28,190	**$ 29,827**		**$ 2,019,037**
$ 42,184	282	$ 7,251	$ 7,251	$ 1,943	$ 9,194	**$ 9,728**		**$ 950,108**
$ 29,344	196	$ 5,044	$ 5,044	$ 1,352	$ 6,396	**$ 6,767**		**$ 876,463**
$ 34,724	232	$ 5,969	$ 5,969	$ 1,600	$ 7,568	**$ 8,008**		**$ 1,157,124**
$ 29,653	198	$ 5,097	$ 5,097	$ 1,366	$ 6,463	**$ 6,838**		**$ 924,004**
$ 29,874	199	$ 5,135	$ 5,135	$ 1,376	$ 6,511	**$ 6,889**		**$ 809,083**
$ 44,176	295	$ 7,593	$ 7,593	$ 2,035	$ 9,628	**$ 10,188**		**$ 1,425,480**
$ 34,140	228	$ 5,868	$ 5,868	$ 1,573	$ 7,441	**$ 7,873**		**$ 1,005,960**
$ 35,819	239	$ 6,157	$ 6,157	$ 1,650	$ 7,807	**$ 8,260**		**$ 1,054,800**
$ 42,603	284	$ 7,323	$ 7,323	$ 1,963	$ 9,285	**$ 9,825**		**$ 1,293,214**
$ 1,144,907	**7,642**	**$ 196,794**	**$ 196,794**	**$ 52,741**	**$ 249,535**	**$ 264,030**		**$ 32,676,638**
$ 37,019	247	$ 6,363	$ 6,363	$ 1,705	$ 8,068	**$ 8,537**		**$ 88,123**
$ 50,269	336	$ 8,641	$ 8,641	$ 2,316	$ 10,956	**$ 11,593**		**$ 119,665**
$ 14,988	100	$ 2,576	$ 2,576	$ 690	$ 3,267	**$ 3,456**		**$ 35,679**
$ 20,356	136	$ 3,499	$ 3,499	$ 938	$ 4,437	**$ 4,694**		**$ 48,457**
$ 48,702	325	$ 8,371	$ 8,371	$ 2,243	$ 10,615	**$ 11,231**		**$ 115,934**
$ 4,801	32	$ 825	$ 825	$ 221	$ 1,046	**$ 1,107**		**$ 11,428**

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$	12,886	86	$ 2,215	$ 2,215	$ 594	$ 2,809	$ 2,972			$ 30,676		
$	13,683	91	$ 2,352	$ 2,352	$ 630	$ 2,982	$ 3,155			$ 32,571		
$	202,702	1,353	$ 34,842	$ 34,842	$ 9,338	$ 44,179	$ 46,746			$ 482,533		
$	63,909	427	$ 10,985	$ 10,985	$ 2,944	$ 13,929	$ 14,738			$ 78,648		
$	16,892	113	$ 2,904	$ 2,904	$ 778	$ 3,682	$ 3,896			$ 20,788		
$	57,165	382	$ 9,826	$ 9,826	$ 2,633	$ 12,459	$ 13,183			$ 70,348		
$	48,604	324	$ 8,354	$ 8,354	$ 2,239	$ 10,593	$ 11,209			$ 59,813		
$	7,836	52	$ 1,347	$ 1,347	$ 361	$ 1,708	$ 1,807			$ 9,643		
$	360,998	2,410	$ 62,051	$ 62,051	$ 16,630	$ 78,680	$ 83,251			$ 444,248		
$	555,405	3,707	$ 95,467	$ 95,467	$ 25,585	$ 121,052	$ 128,084			$ 683,489		
$	3,442	23	$ 592	$ 592	$ 159	$ 750	$ 794			$ 4,236		
$	12,593	84	$ 2,165	$ 2,165	$ 580	$ 2,745	$ 2,904			$ 15,497		
$	2,437	16	$ 419	$ 419	$ 112	$ 531	$ 562			$ 2,999		
$	27,000	180	$ 4,641	$ 4,641	$ 1,244	$ 5,885	$ 6,226			$ 33,226		
$	47,436	317	$ 8,154	$ 8,154	$ 2,185	$ 10,339	$ 10,939			$ 58,376		
$	35,165	235	$ 6,044	$ 6,044	$ 1,620	$ 7,664	$ 8,109			$ 43,274		
$	200,224	1,337	$ 34,416	$ 34,416	$ 9,223	$ 43,639	$ 46,174			$ 246,398		
										$ -		
								$	156,342	$ 156,342	Facilities Costs from 2015_March Facilities Bo	
								$	620,248	$ 620,248	Facilities Costs from 2015_March Facilities Bo	
								$	302,201	$ 302,201	Facilities Costs from 2015_March Facilities Bo	
$	328,297	$ 2,191	$ 56,430	$ 56,430	$ 15,123	$ 71,553	$ 75,709			$ 1,482,798		
$	2,231,311	14,894	$ 383,532	$ 383,532	$ 102,787	$ 486,319	$ 514,569			$ 35,325,457		

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