



Technical Analysis and Findings

Utah Coal Regulatory Program

August 31, 2016

PID: C0070005
TaskID: 5252
Mine Name: SKYLINE MINE
Title: BOND UPDATE TO REVEGETATION

Reclamation Plan

Bonding Determination of Amount

Analysis:

Conditional approval is given for Bonding Determination Amount contingent upon Permittee submitting clean updated bonding sheets with the following corrections along with the corrections for Task 5254 (Concrete Slab).

Thank you for supplying the Stevenson Intermountain Seed, Inc. quotes. It is best to have 3 quotes for a better estimate of reclamation. Please input the Means Reference Number column information into the spreadsheet. Use the references you have submitted, see examples in table below.

Materials	Means	2014 Unit	
	Reference Number	Cost	Unit
Bare root seedlings, 11 In.to 16 in. med. soil	32 93 43.10 0562	1.13	/Ea
Fertilizer Hyrdor Spread	32 92 19.14 7025	173.70	/AC
Final Reveg Sage/Grass Swens Can Ven Fac south facing slope seed mix	Table 4.7-11B	280.64	/AC
Final Reveg Seed Mix North of Graben Bleeder Shaft	Table 4.7-10B	205.09	/AC
Final Reveg Seed Mix Rip Commun Win Qu Ven Fac	Table 4.7-9B	985.20	/AC
Final Reveg Seed Mix Sage/Grass Win Qu Ven Fac	Table 4.7-9C	2024.37	/AC
Hay 1 in. material only (029105000250)	SRCE	600.00	/AC
Hydro Spreader (equip. & labor) B-81	32 92 19.14 5800	31.05	/MSF
Interim Reveg Seed Mix North of Graben Bleeder Shaft	Table 4.7-10A	146.21	/AC
Interim Reveg Seed Mix Sage/Grass Swens Canyon Ven Fac	Table 4.7-11A	206.07	/AC
Interim Reveg Seed Mix Win Qu Ven Fac	Table 4.7-9A	809.55	/AC
North Facing Slopes Seed	Table 4.7-2	261.02	/AC
North Facing Slopes Riparian Habitat Seed	Table 4.7-5	335.60	/AC
Riparian Habitat Seed	Table 4.7-3	66.73	/AC
South Facing Slope Seed 1H : 3H or gentler	Table 4.7-1	293.40	/AC
south facing slope seed mix	Table 4.7-10B	205.09	/AC
Riparian Habitat Seed	Table 4.7-4	440.59	/AC
Waste Rock Slopes Seed	Table 4.7-6A	133.45	/AC

- Total Revege sheet missed adding North of Graben Bleeder Shaft subtotal and Swens Canyon Ventilation Facility subtotal, changing the total reveg sheet from \$514,400 to \$568,200. If the 2014 bare root seedlings cost is used the total is \$526,800 and if the 1.75 provided for bare root seedlings cost is used the total cost \$568,200 these numbers are estimates. Then when 2016 bid numbers are de-escalated to 2014 dollars, using our annual escalation factor, everything is in 2014 unit

costs. This brought the Revegetation total to about \$525,600.

- Permittee used RSMeans cost reference number Bare root seedling 11" to 16" med. Soil #32 93 43.10 0562 but the cost used isn't what it should be I believe it is a typos. It should have been \$1.13 for 2014 instead of \$1.79.
- A Cost reference sheet was created and included for ease and accuracy of updating cost information.
- The 2015 and 2016 escalation factors were used to bring the 2016 seed bids back to the 2014 costs so all unit costs are in 2014.

See Task 5254 for Totals.

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