



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Mining Programs

2019 Bond Rate Guidelines for the Calculation of Land Reclamation Bonds on Coal Mining Operations

MRAB Meeting

July 19, 2018

2018 AML Reclamation Grading Costs

- 3 reclamation projects with 2,138,737 total cubic yards
- Cost per cubic yard ranged from \$0.73 to \$3.25
- 3 low bid averages at \$0.76, \$1.23, and \$1.48 for a weighted average of \$1.16
- Current 2016 – 2018 weighted average at \$0.86 for 500 ft. or less

2018 AML Reclamation Revegetation Costs

- 2 reclamation projects with 20.5 acres revegetation
- Cost per acre of the 3 lowest bids ranged from \$1,320 to \$2,044.
- Weighted average of 3 lowest bids was \$1,538.94

2018 AML Reclamation Mulch, Seed Bed Preparation and Seed Costs

- Mulch cost per acre of 3 lowest bids was \$816.65.
- 3 year weighted average of Mulch cost is \$874.82.
- Seed Bed Prep cost per acre of 3 lowest bids at \$196.93
- 3 year weighted average of Seed Bed Prep is \$284.58
- Seed cost per acre of 3 lowest bids at \$394.91
- 3 year weighted average of Seed is \$281.66

2016-2018 Bond Rate Data 2019 Projected with Current Data

		2016 wgt ave		2017 wgt ave		2018 wgt ave		16-18 Weighted			
	Unit		2016 amt		2017 amt		2018 amt		2017	2018	2019
Grading1	Yd	\$1.03	1,800,269	\$0.88	1,262,656	\$1.16	2,138,737	\$1.05	\$0.90	\$0.85	\$0.86
Grading2	Yd								\$1.55	\$1.55	\$1.40
Select Grading	Acre								\$1,700.00	\$1,700.00	
Reveg	Acre	\$2,129.84	284.8	\$1,847.90	171.5	\$1,538.94	20.5	\$2,003.02	\$1,950.00	\$2,000.00	\$2,000.00
Trees	each	\$3.58	39,581	\$2.72	48,600			\$3.10	\$0.75	\$0.75	

2016-2018 Bond Rate Data 2019 Projected with Current Data

	2017	2017	2018	2018	2019	2019
Reveg Tot	\$1,950.00	\$1,950.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
Mulch	\$870.00	\$870.00	\$870.00	\$870.00	\$880.00	\$880.00
Seed Bed	\$280.00	\$280.00	\$250.00	\$250.00	\$290.00	\$290.00
Seed	\$280.00		\$270.00		\$280.00	
	\$520.00	\$800.00	\$610.00	\$880.00	\$550.00	\$830.00
Pasture		w/seed	Pasture	w/seed	Pasture	w/seed



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