



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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