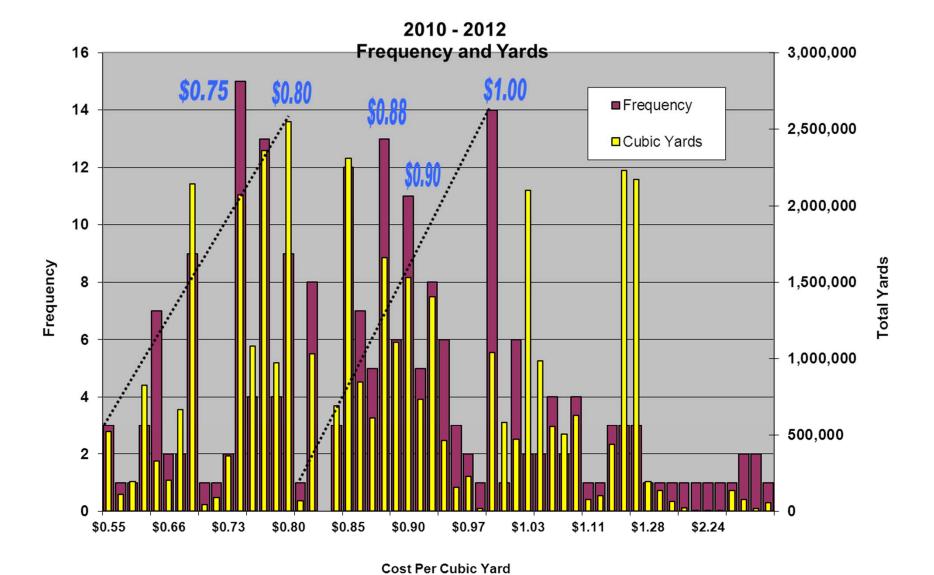
## 2013 Bond Rate Guidelines for the Calculation of Land Reclamation Bonds on Coal Mining Operations

MRAB July 12, 2012

2012 AML Reclamation Grading Costs - 3 Lowest Project Bids

| 2012                   | Z AIVIL Reciam                      | iation G    | raum          | g Costs - a     | LOWE          | est Project     | Dias          |                 |
|------------------------|-------------------------------------|-------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
|                        | DESCRIPTION                         | QUANTITIES  | UNIT<br>PRICE | TOTAL           | UNIT<br>PRICE | TOTAL           | UNIT<br>PRICE | TOTAL           |
|                        |                                     |             | Cost per      |                 | Cost per      |                 | Cost per      |                 |
| Reclamation Project    | Task                                | Cubic Yards | CY            | Low Project Bid | CY            | 2nd Project Bid | CY            | 3rd Project Bid |
| OSM 16(0886,3316)101.1 | A. Site "A"                         | 63,000      | \$0.91        | \$57,330.00     | \$0.95        | \$59,850.00     | \$0.90        | \$56,700.00     |
|                        | B. Site "B"                         |             |               |                 |               |                 |               |                 |
|                        | Standard Grading                    | 66,000      | \$1.02        | \$67,320.00     | \$0.95        | \$62,700.00     | \$1.05        | \$69,300.00     |
| OSM 24(3888)101.1      | A. Area A                           | 109,983     | \$0.78        | \$85,786.74     | \$0.91        | \$100,084.53    | \$0.88        | \$96,785.04     |
|                        | B. Area B                           | 58,324      | \$0.79        | \$46,075.96     | \$0.91        | \$53,074.84     | \$0.87        | \$50,741.88     |
|                        | C. Area C                           | 59,458      | \$0.79        | \$46,971.82     | \$0.89        | \$52,917.62     | \$0.87        | \$51,728.46     |
|                        | D. Area D                           | 40,596      | \$0.80        | \$32,476.80     | \$0.88        | \$35,724.48     | \$0.82        | \$33,288.72     |
|                        | E. Area E                           | 16,743      | \$0.82        | \$13,729.26     | \$0.88        | \$14,733.84     | \$0.78        | \$13,059.54     |
| OSM 40(2138)104.1      | A) Grading Area A                   | 4,850       | \$1.43        | \$6,935.50      | \$1.50        | \$7,275.00      | \$2.50        | \$12,125.00     |
|                        | B) Grading Area B to Grading Area A | 1,400       | \$3.59        | \$5,026.00      | \$1.70        | \$2,380.00      | \$6.00        | \$8,400.00      |
|                        | C) Grading Area C                   | 37,800      | \$1.43        | \$54,054.00     | \$1.50        | \$56,700.00     | \$3.50        | \$132,300.00    |
|                        | D) Grading Area C to Grading Area A | 45,750      | \$3.59        | \$164,242.50    | \$1.85        | \$84,637.50     | \$6.00        | \$274,500.00    |
| OSM 43(0471)101.1      | Grading                             | 47,915      | \$0.85        | \$40,727.75     | \$1.10        | \$52,706.50     | \$0.70        | \$33,540.50     |
| OSM 56(4727)101.1      | A. Grading Areas 1-3                | 218,000     | \$0.73        | \$159,140.00    | \$1.00        | \$218,000.00    | \$0.88        | \$191,840.00    |
|                        | B. Grading Area 4                   | 12,000      | \$2.75        | \$33,000.00     | \$1.00        | \$12,000.00     | \$0.88        | \$10,560.00     |
| OSM 40(4060)101.1      | A) Grading Area A                   | 135,400     | \$1.37        | \$185,498.00    | \$1.25        | \$169,250.00    | \$2.72        | \$368,288.00    |
|                        | B) Grading Area B                   | 77,700      | \$1.18        | \$91,686.00     | \$1.10        | \$85,470.00     | \$2.72        | \$211,344.00    |
| OSM 54(4148,4665)101.1 | A) Grading Area A                   | 2,075,600   | \$1.03        | \$2,137,868.00  | \$1.25        | \$2,594,500.00  | \$1.20        | \$2,490,720.00  |
|                        | B) Grading Area B                   | 89,400      | \$0.70        | \$62,580.00     | \$1.25        | \$111,750.00    | \$1.19        | \$106,386.00    |
|                        | C) Grading Area C                   | 6,300       | \$2.75        | \$17,325.00     | \$1.25        | \$7,875.00      | \$2.24        | \$14,112.00     |
| 7                      | 3,166,219                           |             | \$1.19        | \$3,781,629.31  |               | \$4,225,719.14  | \$1.19        | \$3,771,707.26  |
|                        | 3,013,419                           |             | \$1.18        | \$3,570,786.81  |               | \$3,741,694.14  | \$1.14        | \$3,445,897.43  |

|        |           |      | Tota      | I Grad | ling Costs | for 20 | )10 - 2011 |      |             |            |        |
|--------|-----------|------|-----------|--------|------------|--------|------------|------|-------------|------------|--------|
| Unit   |           |      |           |        |            |        |            |      |             |            |        |
| Cost   | CY        | Freq | CY        | Freq   | CY         | Freq   | CY         | Freq |             |            |        |
| \$0.55 | 492,717   | 2    | 29,370    | 1      |            |        | 522,087    | 3    | \$287,148   |            |        |
| \$0.57 | 108,896   | 1    |           |        |            |        | 108,896    | 1    | \$62,071    |            |        |
| \$0.58 |           |      | 193,705   | 1      |            |        | 193,705    | 1    | \$112,349   |            |        |
| \$0.60 | 676,866   | 2    | 152,000   | 1      |            |        | 828,866    | 3    | \$497,320   |            |        |
| \$0.65 |           |      | 328,170   | 7      |            |        | 328,170    | 7    | \$213,311   |            |        |
| \$0.66 | 180,131   | 1    | 23,750    | 1      |            |        | 203,881    | 2    | \$134,561   |            |        |
| \$0.69 | 452,200   | 1    | 215,000   | 1      |            |        | 667,200    | 2    | \$460,368   |            |        |
| \$0.70 | 1,605,960 | 3    | 400,152   | 4      | 137,317    | 2      | 2,143,429  | 9    | \$1,500,400 |            |        |
| \$0.71 |           |      | 44,291    | 1      |            |        | 44,291     | 1    | \$31,447    |            |        |
| \$0.72 |           |      | 91,500    | 1      |            |        | 91,500     | 1    | \$65,880    |            |        |
| \$0.73 |           |      | 142,101   | 1      | 218,000    | 1      | 360,101    | 2    | \$262,874   |            |        |
| \$0.75 | 856,149   | 4    | 1,216,520 | 11     |            |        | 2,072,669  | 15   | \$1,554,502 |            |        |
| \$0.77 | 676,000   | 2    | 405,053   | 2      |            |        | 1,081,053  | 4    | \$832,411   |            |        |
| \$0.78 | 1,892,910 | 6    | 340,335   | 5      | 126,726    | 2      | 2,359,971  | 13   | \$1,840,777 |            |        |
| \$0.79 | 403,405   | 1    | 451,405   | 1      | 117,782    | 2      | 972,592    | 4    | \$768,348   |            |        |
| \$0.80 | 1,936,971 | 4    | 572,260   | 4      | 40,596     | 1      | 2,549,827  | 9    | \$2,039,862 | 14,528,238 | \$0.73 |
| \$0.81 |           |      | 70,000    | 1      |            |        | 70,000     | 1    | \$56,700    |            |        |
| \$0.82 |           |      | 976,495   | 6      | 57,339     | 2      | 1,033,834  | 8    | \$847,744   |            |        |
| \$0.83 | 691,650   | 3    |           |        |            |        |            |      | \$580,986   |            |        |
| \$0.84 |           |      | 193,705   | 1      |            |        | 691,650    | 3    | \$1,961,469 |            |        |
| \$0.85 | 1,654,339 | 6    | 608,075   | 5      | 47,915     | 1      | 2,310,329  | 12   | \$1,961,469 |            |        |
| \$0.86 | 631,199   | 5    | 218,370   | 2      | ·          |        | 849,569    | 7    | \$730,629   |            |        |
| \$0.87 | 299,000   | 1    | 195,500   | 2      | 117,782    | 2      | 612,282    | 5    | \$532,685   |            |        |
| \$0.88 | 912,520   | 3    | 558,636   | 5      | 191,122    | 5      | 1,662,278  | 13   | \$1,462,805 |            |        |
| \$0.89 | 892,574   | 4    | 162,000   | 1      | 54,458     | 1      | 1,109,032  | 6    | \$987,038   |            |        |
| \$0.90 | 859,390   | 3    | 610,500   | 7      | 63,000     | 1      | 1,532,890  | 11   | \$1,378,068 |            |        |
| \$0.91 | 505,200   | 2    | ·         |        | 231,307    | 3      | 736,507    | 5    | \$670,221   |            |        |
| \$0.92 | 886,700   | 1    | 520,550   | 7      | ·          |        | 1,407,250  | 8    | \$1,294,670 |            |        |
| \$0.95 |           |      | 332,010   | 4      | 129,000    | 2      | 461,010    | 6    | \$437,960   |            |        |
| \$0.96 |           |      | 158,500   | 3      | ·          |        | 158,500    | 3    | \$152,160   |            |        |
| \$0.97 | 229,000   | 2    |           |        |            |        | 229,000    | 2    | \$222,130   |            |        |
| \$0.99 |           |      | 17,500    | 1      |            |        | 17,500     | 1    | \$17,325    |            |        |
| \$1.00 | 114,500   | 1    | 696,070   | 11     | 230,000    | 2      | 1,040,570  | 14   | \$1,040,570 | 13,922,201 | \$1.03 |



## **Summary of Calculated Bond Rates by Task**

| Summary of Calculated Bond Rates by Task |                    |                      |           |                      |           |               |           |                    | Proposed Rates |            |            |  |  |
|--|--------------------|----------------------|-----------|----------------------|-----------|---------------|-----------|--------------------|----------------|------------|------------|--|--|
|  | Unit               | 2010 wgt             | 2010 amt  | 2011 wgt             | 2011 amt  | 2012 wgt      | 2012 amt  | 10-12              | 2011           | 2012       | 2013       |  |  |
| Grading1                                 | Yd                 | ave<br><b>\$0.86</b> | 7,275,224 | ave<br><b>\$0.82</b> | 3,452,835 | ave<br>\$1.14 | 3,013,419 | Weighted<br>\$0.91 | \$0.80         | \$0.75     | 2010       |  |  |
| Grading2                                 | Yd                 |                      |           |                      |           |               |           |                    | \$1.00         | \$1.00     |            |  |  |
| Select Grading                           | g Acre             |                      |           | \$1,545.00           | 11.7      |               |           |                    | \$1,050.00     | \$1,075.00 |            |  |  |
| Reveg                                    | Acre               | \$1,335.25           | 715.5     | \$1,757.21           | 328.6     | \$1,821.63    | 80.0      | \$1,493.21         | \$1,470.00     | \$1,500.00 | \$1,500.00 |  |  |
| Trees                                    | each               | \$2.55               | 18,334.0  | \$2.27               | 55,190.0  |               |           |                    |                |            |            |  |  |
| Ditch Ex                                 | Yd                 | \$4.93               | 17,457.0  | \$6.96               | 6,125.0   |               |           |                    | \$4.25         | \$5.00     |            |  |  |
| Jute                                     | sq yd              | \$3.70               | 4,407.0   | \$2.95               | 1,305.0   |               |           |                    | \$3.50         | \$3.50     |            |  |  |
| HV Erosion                               | sq yd              | \$2.86               | 17,000.0  | \$3.94               | 1,835.0   |               |           |                    | \$3.00         | \$3.00     |            |  |  |
| AASHTO No.                               | 1 Ton              | \$17.43              | 200.0     | \$30.18              | 1,470.0   |               |           |                    | \$24.00        | \$30.00    |            |  |  |
| AASHTO No.                               | 5 <sup>-</sup> Ton | \$17.35              | 51.0      | \$25.99              | 24.0      |               |           |                    | \$25.00        | \$25.00    |            |  |  |
| R3                                       | sq yd              |                      |           | \$25.83              | 55.0      |               |           |                    | \$26.00        | \$26.00    |            |  |  |
| R4                                       | sq yd              | \$22.50              | 1,540.0   | \$27.63              | 1,500.0   |               |           |                    | \$20.00        | \$21.00    |            |  |  |
| R5                                       | sq yd              | \$23.17              | 1,980.0   | \$34.33              | 95.0      |               |           |                    | \$20.00        | \$23.00    |            |  |  |
| Geotex                                   | sq yd              | \$2.59               | 520.0     | \$3.03               | 2,760.0   |               |           |                    | \$1.75         | \$3.00     |            |  |  |
| PVC lining                               | sq yd              |                      |           | \$12.18              | 1,200.0   |               |           |                    | \$12.00        | \$12.00    |            |  |  |
| Lime                                     | Ton                | \$38.42              | 2,072.5   | \$44.96              | 1,756.7   |               |           |                    |                |            |            |  |  |
| Subdrain                                 | foot               | \$15.60              | 12,360.0  | \$22.07              | 1,050.0   |               |           |                    | \$16.00        | \$16.00    |            |  |  |
| Mulch                                    | Acre               | \$650.80             | 547.0     | \$779.15             | 337.8     | \$746.84      | 68.1      | <b>\$703.16</b>    |                |            |            |  |  |
| Seed Bed Pre                             | p Acre             | \$177.12             | 550.1     | \$213.05             | 356.6     | \$206.55      | 57.6      | \$192.16           | =              |            |            |  |  |

|           | 2011       | 2011       | 2012       | 2012       | 2013       | 2013       |
|-----------|------------|------------|------------|------------|------------|------------|
| Reveg Tot | \$1,470.00 | \$1,470.00 | \$1,500.00 | \$1,500.00 | \$1,500.00 | \$1,500.00 |
| Mulch     | \$625.00   | \$625.00   | \$665.00   | \$665.00   | \$700.00   | \$700.00   |
| Seed Bed  | \$195.00   | \$195.00   | \$195.00   | \$195.00   | \$190.00   | \$190.00   |
| Seed      | \$195.00   |            | \$220.00   |            | \$265.00   |            |
|           |            |            |            |            |            |            |
|           | \$455.00   | \$650.00   | \$420.00   | \$640.00   | \$345.00   | \$610.00   |
|           | Cropland   | w/Seed     | Cropland   | w/seed     | Cropland   | w/seed     |

\$300.27

467.2

\$353.21

64.6

\$265.06

Seed

\$227.73

Acre

593.2