

Document Information Form

Mine Number: C/015/015

File Name: Internal

To: DOGM

From:

Person N/A

Company N/A

Date Sent: N/A

Explanation:

BOND SUMMARY

cc:

File in: C/015, 015, Internal

- Refer to:
- Confidential
 - Shelf
 - Expandable

Date _____ For additional information

Act 015/015

BONDING CALCULATIONS - EMERY DEEP MINE
4 EAST PORTAL SITE - ACT/015/015 *FOUR#4*
MAY 1990 - JRH

Note -

This revision incorporated the reclamation costs associated with the construction of the new 4 East Portal Site. Only those costs associated with the reclamation of that site are calculated here.

BOND SUMMARY:

I. SUBTOTAL DEMOLITION AND REMOVAL	\$8,915.00
II. SUBTOTAL BACKFILLING AND GRADING	\$54,802.00
III. SUBTOTAL TOPSOIL PREPARATION AND DISTRIBUTION	\$2,000.00
IV. SUBTOTAL REVEGETATION	\$18,534.35
V. SUBTOTAL INTERIM SEDIMENT CONTROL FACILITIES	\$4,260.00

SUBTOTAL OF RECLAMATION COSTS	\$88,511.35
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10% MAINTENANCE AND MONITORING COSTS	\$8,851
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10% CONTINGENCY AND ENGINEERING COSTS	\$8,851
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SUBTOTAL IN 1990 DOLLARS	\$106,214
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SUBTOTAL WITH ESCALATION @1.93%/YR FOR 5 YEARS(1995 DOLLARS) -	\$116,867
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TOTAL BOND AMOUNT	
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File in:
 Confidential
 Shelf
 Expandable
Refer to Record No 8 Date _____
In C/ 015, 015, Internal
For additional information

1995\$ -	\$117,000
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TOTAL BOND AMOUNT ROUNDED TO NEAREST \$1,000 IN 1995\$ -	\$117,000
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UNIT COST REFERENCE FOR BOND ESTIMATE:

I. LABOR AND SUPERVISION COSTS (MEANS SITE WORK COST DATA - 1989)

TRADE	RATE/HR
A. FOREMAN	\$36.10
B. EQUIPMENT OPERATOR	\$32.15
C. TRUCK DRIVER	\$26.15
D. LABORER	\$25.40
E. CRANE OPERATOR	\$33.25

II. EQUIPMENT COSTS INCLUDING OPERATOR (BLUE BOOK AND MEANS)

EQUIPMENT	MONTHLY RATE*	ADJ. RATE PER HOUR	MAINT PER HOUR	OPERATOR PER HOUR	TOTAL PER HOUR
D9 DOZER CAT D9N	\$12,540.00	\$71.25	\$32.10	\$32.15	\$135.50
D8 DOZER CAT D8L	\$11,265.00	\$64.01	\$28.95	\$32.15	\$125.11
D6 DOZER CAT D6H	\$5,735.00	\$32.59	\$14.35	\$32.15	\$79.09
7YD LOADER CAT 988B	\$11,630.00	\$66.08	\$40.80	\$32.15	\$139.03
OFF-HIGHWAY TRUCK 769C	\$8,035.00	\$45.65	\$22.65	\$26.15	\$94.45
20YD SCRAPER CAT 631E	\$17,445.00	\$99.12	\$51.95	\$32.15	\$183.22
TRACTOR CASE 580K	\$2,055.00	\$11.68	\$5.95	\$32.15	\$49.78
GRADER CAT 14G	\$7,055.00	\$40.09	\$16.25	\$32.15	\$88.49
3/4 TON 4X4 PICKUP TRUCK	\$535.00	\$3.04	\$3.15	\$0.00	\$6.19
P&H OMEGA 65 CRANE	\$14,850.00	\$84.38	\$37.70	\$33.25	\$155.33
10 TON DUMP TRUCK	\$2,925.00	\$16.62	\$14.35	\$26.15	\$57.12
3YD EXCAVATOR CAT 245	\$15,210.00	\$86.42	\$43.85	\$32.15	\$162.42
TRACTOR DEERE 410C	\$2,400.00	\$13.64	\$7.25	\$32.15	\$53.04
EIMCO 915 LHD	\$5,715.00	\$32.47	\$21.15	\$32.15	\$85.77

*MONTHLY RATES USED ON ALL EQUIPMENT DUE TO SIZE OF RECLAMATION PROJECT.

III. DEMOLITION AND REMOVAL COSTS (MEANS SITE WORK COST DATA - 1989)

JOB	LABEL	COST /UNIT
MIXED STEEL/CONC./WOOD	MIX	\$0.17 /FT3
CONCRETE	CONC	\$0.22 /FT3
STEEL	STEEL	\$0.16 /FT3
PAVEMENT	PAVE	\$1.45 /FT2
WATERLINES	WATER	\$4.79 /FT
POWERLINES	POWER	\$3.62 /FT
CHAIN LINK FENCE	FENCE	\$1.22 /FT
GUARD RAIL REMOVAL	GUARD	\$4.45 /FT
DISPOSAL ON SITE	SITE	\$5.10 /YD3
DISPOSAL TO LANDFILL	FILL	\$8.00 /YD3

IV. MISCELLANEOUS RECLAMATION COSTS

ITEM	LABEL	COST /UNIT
STRAW MULCH	STRAW	\$140.00 /TON
SEED MIX	SEED	\$250.00 /ACRE
FERTILIZER	FERTILIZE	\$205.00 /TON
HYDROMULCH & TACIFIER	TACK	\$300.00 /ACRE
RIPRAP MATERIAL RANDOM - INSTALLED	RIPRAP	\$25.00 /YD3
RIPRAP MATERIAL +18" SIZE - INSTALLED	LARGERAP	\$51.00 /YD3
FILTER MATERIAL - INSTALLED	FILTER	\$25.00 /YD3
AQUALIGHT	AQUALIGHT	\$25.50 /YD3
AQUALIGHT PUMP	PUMP	\$25.00 /HOUR
SILT FENCE - INSTALLED	SILT	\$2.84 /FT
MULCHING - POWER MULCHER - INCLUDES HAY	MULCH	\$871.20 /ACRE
MULCHING - HYDROMULCHING - INCLUDES MULCH	HYDROMLCH	\$977.36 /ACRE
SEEDING - HYDROSEEDING	HYDROSEED	\$927.36 /ACRE
- TRACTOR SPREADER	BROADCAST	\$611.55 /ACRE
- PUSH SPREADER	HANDSEED	\$1,378.20 /ACRE
POLYPROPYLENE MESH - INSTALLED	MESH	\$9,631.60 /ACRE
PLASTIC NETTING - INSTALLED	NET	\$2,904.00 /ACRE
STEM PLANTINGS	STEM	\$1.00 /STEM
300 HP DOZER BACKFILLING (MEANS '90)	DOZERBF	\$0.94 /YD3

DETAILED COST ESTIMATE:

DESCRIPTION	MATERIALS	QUANTITY	UNITS	COST /UNIT	AMOUNT
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I. DEMOLITION AND REMOVAL

A. EQUIPMENT (NO SALVAGE VALUE ALLOWED ON EQUIPMENT)		20 TONS		\$140.00 /TON	\$2,800.00
B. STRUCTURES					
ROCK DUST BIN	MIX	30,000	FT3	\$0.17 /FT3	\$5,100.00
MISCELLANEOUS	MIX	5,000	FT3	\$0.17 /FT3	\$850.00
C. CONCRETE/PAVEMENT REMOVAL					
ROCK DUST BIN FOUNDATION CONC		750	FT3	\$0.22 /FT3	\$165.00

SUBTOTAL DEMOLITION AND REMOVAL	\$8,915.00
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II. BACKFILLING AND GRADING

A. PORTAL/HIGHWALL BACKFILLING		58300	YD3	\$0.94 /YD3	\$54,802.00
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SUBTOTAL BACKFILLING AND GRADING	\$54,802.00
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III. TOPSOIL PREPARATION AND DISTRIBUTION

A. 4 EAST PORAL AREA	LUMP SUM			\$2,000.00 LUMP SUM	\$2,000.00
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SUBTOTAL TOPSOIL PREPARATION AND DISTRIBUTION	\$2,000.00
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DESCRIPTION	MATERIALS	QUANTITY	UNITS	COST /UNIT	AMOUNT
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IV. REVEGETATION

TOTAL AREA TO BE REVEGETATE 10.00 ACRES

SEEDING	BROADCAST	10.00		\$611.55 /ACRE	\$6,115.48
MULCHING	MULCH	10.00		\$871.20 /ACRE	\$8,712.00
RESEEDING & MULCHING (25% OF AREA)		2.50		\$1,482.75 /ACRE	\$3,706.87

SUBTOTAL REVEGETATION					\$18,534.35
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DESCRIPTION	MATERIALS	QUANTITY	UNITS	COST /UNIT	AMOUNT
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V. INTERIM SEDIMENT CONTROL FACILITIES

A. SILT FENCE (ALL AREAS)	SILT	1500 FT		\$2.84 /FT	\$4,260.00
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SUBTOTAL INTERIM SEDIMENT CONTROL FACILITIES					\$4,260.00
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SUBTOTAL OF RECLAMATION COSTS					\$88,511.35
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